

**STATE OF MAINE
Master Agreement**

THIS AGREEMENT, made *April 16th*, 2013, is by and between the State of Maine, Department of Education, hereinafter called "Department," and the Hewlett-Packard Company, located at 3000 Hanover Street, Palo Alto, CA 94304, telephone number 650-857-1501, (hereinafter called "Provider", "Offeror", "Responder", or "Contractor"), for the period of March 1, 2013 to June 30, 2017.

The AdvantageME Vendor/Customer number of the Provider is VC0000117991.

WITNESSETH, that for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the Department, the Provider hereby agrees with the Department to furnish all qualified personnel, facilities, materials and services and in consultation with the Department, to perform the services, study or projects described in Rider A, and under the terms of this Agreement. The following Riders and Appendices are hereby incorporated into this Agreement and made part of it by reference:

- Rider A - Specifications of Work to be Performed
- Rider B - Terms and Conditions for Master Agreement
- Rider C/D/E/F - (These Riders have been deleted and are not included.)
- Rider G - Identification of Country in Which Contracted Work will be Performed
- Appendix A - Request for Proposals #201210412: Multi-State Learning Technology Initiative
- Appendix B - Provider's Primary Proposal in Response to Request for Proposals #201210412
- Appendix C - Provider's Alternate Proposal in Response to Request for Proposals #201210412

IN WITNESS WHEREOF, the Department and the Provider, by their representatives duly authorized, have executed this agreement in three (3) original copies.

DEPARTMENT OF EDUCATION

By: 

Stephen Bowen, Commissioner

and

Hewlett-Packard Company
By: 

Sheila Wright, Contracts Negotiator

**UNENCUMBERED
MAY 02 2013
NO FUNDS RESERVED
FOR THIS CONTRACT**

Total Agreement Amount: \$0.00 (zero dollar Master Agreement)

Approved:  **MAY 02 2013**
Chair, State of Maine State Purchases Review Committee

State of Maine AdvantageME Account Coding

VC NUMBER	DOC TOTAL	FND	DEPT	UNIT		SUB UNIT		OBJ		JOB NO.	PROGRAM
NA	NA	NA	NA	NA		NA		NA		NA	NA

Note: No funding is obligated under this Master Agreement.

RIDER A
SPECIFICATIONS OF WORK TO BE PERFORMED

1. This Master Agreement has been established as a result of Request for Proposals (RFP) #201210412, entitled: “Multi-State Learning Technology Initiative”, for which the State of Maine acted as the Lead State (as defined in Rider B), in coordination with the membership of the Western States Contracting Alliance (WSCA) and the National Association of State Procurement Officials (NASPO).
2. This Master Agreement is not binding to the State of Maine or the Department, and does not constitute a commitment to sign a Participating Addendum with the Provider. Subsequent to the signing of this Master Agreement, participating states under the Multi-State Learning Technology Initiative may, at their discretion, sign Participating Addenda with the Provider(s) holding Master Agreement(s) for this program.
3. RFP #201210412 is hereby incorporated into this Master Agreement. The RFP is provided as Appendix A to this Master Agreement. The requirements of RFP #201210412, and the Provider’s proposed responses and commitments thereto, shall govern the performance of this program, in accordance with the specifications of each participating state’s individual Participating Addendum.
4. The Provider’s “Primary Proposal”, dated January 10, 2013, submitted under RFP #201210412, is hereby incorporated into this Master Agreement. The Proposal is provided as Appendix B to this Master Agreement.
5. The Provider’s “Alternate Proposal”, dated January 10, 2013, submitted under RFP #201210412, is hereby incorporated into this Master Agreement. The Proposal is provided as Appendix C to this Master Agreement.
6. The Period of Performance of this Master Agreement is as follows:

Period	Start Date	End Date
Initial Period of Performance	March 1, 2013	June 30, 2017
Renewal Period #1	July 1, 2017	June 30, 2018
Renewal Period #2	July 1, 2018	June 30, 2019
Renewal Period #3	July 1, 2019	June 30, 2020
Renewal Period #4	July 1, 2020	June 30, 2021
Renewal Period #5	July 1, 2021	June 30, 2022
Renewal Period #6	July 1, 2022	June 30, 2023

Please note: participating states may alter the aforementioned dates as permitted by their state statutes, rules, and policies.

7. The Cost Proposal forms, as submitted by the Provider in the aforementioned “Primary” and “Alternate” Proposals, are hereby provided below:

**COST PROPOSAL FORM FOR RFP # 201210412
FROM “PRIMARY PROPOSAL” (i.e. LAPTOP SOLUTION)**

RFP Instructions: Providers were required to complete the form and tables below in order to have their proposals considered in this procurement process.

Please Note:

- The participating states and entities involved with this procurement process recognize that costs can vary in accordance with the “commitment” and “readiness” of individual participating entities that are interested in implementing this learning technology program. With that in mind, Providers submitted tiered pricing, as indicated below. The structure that determines a participant’s “tier” is shown on Appendix C of the RFP.
- Costs for equipping students/teachers with learning technology and associated services must be proposed on a per-seat, per-year basis, as shown in Table 1, below.
- It is anticipated that total per-seat participation in this multi-state program will increase throughout the duration of the contracts that result from the RFP process. Participating entities seek a discount (shown in Table 2) of the pricing proposed in Table 1 for every increase of 500,000 seats.
- Costs for setting up a wireless network within a participating school are provided separately, on Table 3 below, on a per-seat, per-year basis. A state’s aforementioned “tier” is irrelevant to its need for a wireless network to support this program, so only one cost figure is required, which would be applicable for all participating entities (on a per-seat, per-year basis).
- Table 4 has been provided for Providers to list “optional features” that have been specified within the RFP (for example, optional “no fault” insurance coverage of Section 6.7 of the RFP).

Table 1 – Student/Teacher Learning Technology Solution Costs

Cost proposed per-seat for Tier 1 participants:	\$254.86 per-seat per-year * **
Cost proposed per-seat for Tier 2 participants:	\$285.73 per-seat per-year * **
Cost proposed per-seat for Tier 3 participants:	\$307.10 per-seat per-year * **

Table 2 – Volume Discount Factor

Percentage discount proposed to Table 1 prices for every 500,000 seats of increased participation:	0.0 % ***
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Table 3 – School Wireless Network Costs

Cost proposed per-seat for all participants:	\$30.91 per-seat per-year
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Table 4 – Optional Features

HP 4440s Educational Charging Carts	
QL490AA HP 30 Notebook Secure Managed Charging Cart	\$1,970.00
QL488AA HP 20 Notebook Secure Charging Cart	\$1,465.00
Datamation 4440s Charging Options	
A899783 5-pocket, 1.5A, 5 recal bays	\$645.00
A899782 5-pocket charger for 9 cell battery	\$841.00
A899781 5-pocket, 9-cell, 2 cal bays	\$872.00
A899780 5-pocket, 9-cell, 2 cal bays	\$987.00
A899779 10-pocket charger for 6-cell	\$1,045.00
A899778 10-pocket, 6-cell, 2 cal bays	\$1,068.00
A899777 10-pocket charger for 9-cell battery	\$1,088.00
A899776 10-pocket, 9-cell, 2 cal bays	\$578.00
Extra 4440s AC Adaptor	
BT796AA HP 90W Slim Adapter	\$36.00
Extra 4440s Battery	
QK646AA HP PR06 Notebook Battery	\$25.00
External Optical Drive	
A2U57AA HP Mobile USB DVDRW	\$42.00

Extended 4440s Carepack Warranty Options	
UK711E HP 1y PickupReturn/ADP Notebook Only SVC	\$22.01
UQ873E HP 2y PickupReturn ADP Notebook Only SVC	\$53.46
UK712E HP 3y PickupReturn/ADP Notebook Only SVC	\$89.40
UK723E HP 4y Pickup and Return/ADP NB Only SVC	\$138.81
4440s Port Replicators	
H1L08AA HP 3005pr USB 3.0 Port Replicator	\$98.00
H1L07AA HP 2005pr USB 2.0 Port Replicator	\$74.00
Cases for the 4440s	
A899995 Infocase Classmate 14 Always On Case	\$22.68
CVR400 Targus CityLite Notebook Case	\$19.00
CVR600 Targus Groove Backpack	\$19.00
TSB007US Targus Sport Backpack	\$13.00
TSB219US Targus Brilliance II Backpack	\$19.00
TSS534US Targus Laptop Skin with Handle	\$14.00
TSS58315US Targus Gravity i.6 Sleeve - Black and Blue	\$10.00
TSS58316US Targus Gravity i.6 Sleeve - Black and Red	\$10.00
Absolute Software for 4440s	
A899173 Computrace Complete for 3 years	\$50.49
A899174 Computrace Complete for 4 years	\$62.41
A782324 Absolute Manage CT Modular Add-On 3yr SLED	\$19.33
A782322 Absolute Manage CT Modular Add-On 4yr SLED	\$24.77

Adobe Software for 4440s	
A894883 Adobe Photoshop Elements	\$32.94
A894884 Adobe Premier Elements	\$32.94
A894531 Adobe Acrobat Professional	\$65.86
A876982 Adobe Audition CS6	\$77.55
Optional Tablet Bundle	
HP ElitePad 900 Bundle (unit, expansion jacket, battery, and carry sleeve)	\$630.00
Optional Computing Hardware	
A5K36AV HP Probook 4440s i3 320GB	\$464.00
A5K36AV HP Probook 4440s i5 500GB	\$578.00
B7S86AV HP Elitebook Folio 9470m	\$763.00
QV996AV HP Elite 8300 Small Form Factor Desktop	\$505.00
QV985AV HP Pro 6300 Small Form Factor Desktop	\$409.00
High Capacity Workstation	
A3J45AV Z220 Small Form Factor Workstation	\$735.00
HP Display Options	
XN376AA HP LA2206X LED LCD Monitor	\$146.00
XW477A4 HP COMPAQ LA2205wg LCD Monitor	\$282.00
HP Printing Options	
CC395A HP LaserJet M9050 MFP	\$7,807.00
CD645A HP LaserJet Ent 500 MFP M575f Printer	\$1,999.00
CM749A HP Officejet Pro 8600 e-AiO Printer N911a	\$170.00

CM752A HP Officejet Pro 8100 Printer N811a	\$126.00
Other Available 4440s Options	
A840943 Microsaver Keyed Notebook Lock	\$34.00
A805410 APC Essential SurgeArrest 6 Outlet 2 FT	\$5.00
A856126 APC Essential SurgeArrest 6 Outlet 10 FT	\$9.00
A888487 Belkin Anti Smudge Screen Protector 4PK	\$39.00
A855810 20CT Cleaning Wipes 3X Clean Supplies	\$4.00
A510609 ACM-70 Stereo Headphone 3.5MM Plug	\$3.00
A845820 ViewSonic PJD6223 Networkable XGA Projector	\$442.00
A842461 ViewSonic PLED-W500 Portable LED Projector	\$547.00
A845937 CTH470 Bamboo Capture Pen Tablet SM W/Multitouch	\$79.00
HP Printing Supplies	
C8543X HP LaserJet 9040 Black Print Cartridge	\$260.49
CE255A HP LaserJet P3015 6K Print Cartridge	\$124.15
CE255X HP LaserJet P3015 12.5K Print Cartridge	\$193.05
CN045AN HP 950XL Black Officejet Ink Cartridge	\$32.36
CN046AN HP 951XL Cyan Officejet Ink Cartridge	\$24.49
CN047AN HP 951XL Magenta Officejet Ink Cartridge	\$24.49
CN048AN HP 951XL Yellow Officejet Ink Cartridge	\$24.49
CN049AN HP 950 Black Officejet Ink Cartridge	\$22.43
CN050AN HP 951 Cyan Officejet Ink Cartridge	\$15.96
CN051AN HP 951 Magenta Officejet Ink Cartridge	\$15.96

CN052AN HP 951 Yellow Officejet Ink Cartridge	\$15.96
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
McREL Balanced Leadership for Leaders Face-to-Face Workshop (2 Days)	\$14,000/per 2-day workshop
McREL Managing Change for Leaders Follow-up Workshop Face-to-Face Workshop (2 Days)	\$14,000/per 2-day workshop
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom Face-to-Face Workshop (2+1 Days)	\$5,750 per 2-day workshop \$6,875 per 3-day workshop
Intel Transforming Learning with 1:1 Course: Learning with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Transforming Learning with 1-1 Course: Student Engagement with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Project-Based Approaches 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Assessment in 21st Century Classrooms 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Collaboration in the Digital Classroom 	\$120 per educator/minimum of 10 and maximum of 30 educators per session

Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Educational Leadership in the 21st Century 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Thinking Critically with Data 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Preparing for Online Assessments and choosing the Right Device for Your Environment 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Moving from Print to Digital Text and Blended Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • BYOD: Bring Your Own Device Personalized Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Using Technology to Support the Common core State Standards 	\$3,125 per day \$625 per webinar
Common Sense Media Onsite Seminar – From Digital Students to Digital Citizens (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Be an Upstander! Addressing Cyberbullying in Schools (Half day or Full day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Keeping Track of Privacy and Digital Footprints (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – How to Respect Creative Work in Copy-past Culture (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar

Common Sense Media Onsite Seminar – Getting Smart about E-Rate (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
ClassLink LaunchPad Basic for Teachers (Half Day Remote Class)	\$575 per half day remote class
ClassLink Train-the-Trainer Turnkey Training for Your Leaders (Half Day Remote Class)	\$1,250 per half day remote class
ClassLink Advanced Onsite Launching School Improvement Class Face-to-Face Workshop (1 Day)	\$1,875 per 1-day workshop
Technical Training for HP Devices Face-to-Face Workshop (2 Days)	\$5,750 per 2-day workshop
*Notes 1. Additional travel and expense charges may apply Face-to-face workshops are limited to approximately 25 participants per workshop	
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
Managed Wi-Fi (ENA Air) Wireless Option:	
Optional Rogue Detection Service	\$2,810.40

* The lease pricing in this proposal is fixed through 5-31-13 (the “Initial Rate Expiration Date”) and is calculated using a 2-year swaps indexed to .38% (the “Initial Yield”). After the Initial Rate Expiration Date, the lease pricing applicable to this proposal may be adjusted if the Yield as indicated in the Federal Reserve Board’s Statistical Release, H.15 - Selected Interest Rates, on the lease commencement date. Full four (4) year Lease at listed Tier 1, 2 and 3 Lease Prices at the current calculated rate would be:

- Full 4 Year Lease Price for **Tier 1** participants: \$1,019.45 per-seat per-year
- Full 4 Year Lease Price for **Tier 2** participants: \$1,142.93 per-seat per-year
- Full 4 Year Lease Price for **Tier 3** participants: \$1,228.39 per-seat per-year

****Due to limitations in structure of the Table 1 – Student/Teacher Learning Technology Solution Costs, HP has not included Cash Transaction pricing however HP is willing to provide upon request.**

***** At this time HP is not prepared to offer a volume discount price**

**COST PROPOSAL FORM FOR RFP # 201210412
FROM “ALTERNATE PROPOSAL” (i.e. TABLET SOLUTION)**

RFP Instructions: Providers were required to complete the form and tables below in order to have their proposals considered in this procurement process.

Please Note:

- The participating states and entities involved with this procurement process recognize that costs can vary in accordance with the “commitment” and “readiness” of individual participating entities that are interested in implementing this learning technology program. With that in mind, Providers submitted tiered pricing, as indicated below. The structure that determines a participant’s “tier” is shown on Appendix C of the RFP.
- Costs for equipping students/teachers with learning technology and associated services must be proposed on a per-seat, per-year basis, as shown in Table 1, below.
- It is anticipated that total per-seat participation in this multi-state program will increase throughout the duration of the contracts that result from the RFP process. Participating entities seek a discount (shown in Table 2) of the pricing proposed in Table 1 for every increase of 500,000 seats.
- Costs for setting up a wireless network within a participating school are provided separately, on Table 3 below, on a per-seat, per-year basis. A state’s aforementioned “tier” is irrelevant to its need for a wireless network to support this program, so only one cost figure is required, which would be applicable for all participating entities (on a per-seat, per-year basis).
- Table 4 has been provided for Providers to list “optional features” that have been specified within the RFP (for example, optional “no fault” insurance coverage of Section 6.7 of the RFP).

Table 1 – Student/Teacher Learning Technology Solution Costs

Cost proposed per-seat for Tier 1 participants:	\$314.28 per-seat per-year * **
Cost proposed per-seat for Tier 2 participants:	\$345.15 per-seat per-year * **
Cost proposed per-seat for Tier 3 participants:	\$366.51 per-seat per-year * **

Table 2 – Volume Discount Factor

Percentage discount proposed to Table 1 prices for every 500,000 seats of increased participation:	0.0 % ***
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Table 3 – School Wireless Network Costs

Cost proposed per-seat for all participants:	\$30.91 per-seat per-year
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Table 4 – Optional Features

HP ElitePad Educational Charging Carts	
QL490AA HP 30 Notebook Secure Managed Charging Cart	\$1,970.00
QL488AA HP 20 Notebook Secure Charging Cart	\$1,465.00
Extra ElitePad AC Adaptor	
H4K08AA HP ElitePad 10W A/C Adapter	\$21.00
Extra External ElitePad Jacket Battery	
H4J85AA HP ElitePad Expansion Jacket	\$36.00
H4F20AA HP ElitePad External Jacket Battery	\$55.00
External Optical	
A2U57AA HP Mobile USB DVDRW	\$42.00
Extended ElitePad Carepack Warranty Options	
UOW23E HP 1y PickupReturn/ADP Notebook Only SVC	\$21.00
UOW25E HP 2y PickupReturn ADP Notebook Only SVC	\$49.00
HR206E HP 3y PickupReturn/ADP Notebook Only SVC	\$78.00
UOJ29E HP 4y Pickup and Return/ADP NB Only SVC	\$137.00
ElitePad Docking Station	
C0M84AA ElitePad Docking Station	\$75.00
ElitePad Administrator/Executive Options	
H4E45AA HP Executive Tablet Pen	\$26.00
H4Q44AA HP Slim BT Keyboard	\$27.00
H3T50AA HP X4000b Bluetooth Mouse	\$18.00
H3N45AA HP ElitePad HDMI/VGA Adapter	\$28.00

H3N46AA HP ElitePad USB Adapter	\$12.00
H3N47AA HP ElitePad Smart Adapter	\$20.00
H3N48AA HP Slate SD Card Reader	\$18.00
H3N49AA HP Slate Ethernet Cable	\$18.00
H3N50AA HP Slate Serial Cable	\$18.00
ElitePad Cases	
A899996 InfoCase Fieldmate Always on Case for Tablets	\$22.68
CVR600 Targus Groove Backpack	\$19.00
TSB219US Targus Brilliance II Backpack	\$19.00
CVR215 Sport Netbook Sleeve	\$10.00
TSB007US Sport Backpack	\$13.00
TSS126US A7 Netbook Sleeve	\$10.00
Absolute Software for ElitePad	
A899173 Computrace Complete for 3 years	\$50.49
A899174 Computrace Complete for 4 years	\$62.41
A782324 Absolute Manage CT Modular Add-On 3yr SLED	\$19.33
A782322 Absolute Manage CT Modular Add-On 4yr SLED	\$24.77
Adobe Software for ElitePad	
A894883 Adobe Photoshop Elements	\$32.94
A894884 Adobe Premier Elements	\$32.94
A894531 Adobe Acrobat Professional	\$65.86
A876982 Adobe Audition CS6	\$77.55

Optional Computing Hardware	
A5K36AV HP Probook 4440s Celeron 320GB Bundle (includes carry sleeve)	\$402.00
A5K36AV HP Probook 4440s i3 320GB	\$464.00
A5K36AV HP Probook 4440s i5 500GB	\$578.00
B7S86AV HP Elitebook Folio 9470m	\$763.00
QV996AV HP Elite 8300 Small Form Factor Desktop	\$505.00
QV985AV HP Pro 6300 Small Form Factor Desktop	\$409.00
High Capacity Workstation	
A3J45AV Z220 Small Form Factor Workstation	\$735.00
HP Display Options	
XN376AA HP LA2206X LED LCD Monitor	\$146.00
XW477A4 HP COMPAQ LA2205wg LCD Monitor	\$272.00
HP Printing Options	
CC395A HP LaserJet M9050 MFP	\$7,807.00
CD645A HP LaserJet Ent 500 MFP M575f Printer	\$1,999.00
CM749A HP Officejet Pro 8600 e-AiO Printer N911a	\$170.00
CM752A HP Officejet Pro 8100 Printer N811a	\$126.00
Other Available ElitePad Options	
A805410 APC Essential SurgeArrest 6 Outlet 2 FT	\$5.00
A856126 APC Essential SurgeArrest 6 Outlet 10 FT	\$9.00
A888487 Belkin Anti Smudge Screen Protector 4PK	\$39.00
A855810 20CT Cleaning Wipes 3X Clean Supplies	\$4.00

A510609 ACM-70 Stereo Headphone 3.5MM Plug	\$3.00
A845820 ViewSonic PJD6223 Networkable XGA Projector	\$442.00
A842461 ViewSonic PLED-W500 Portable LED Projector	\$547.00
HP Printing Supplies	
C8543X HP LaserJet 9040 Black Print Cartridge	\$260.49
CE255A HP LaserJet P3015 6K Print Cartridge	\$124.15
CE255X HP LaserJet P3015 12.5K Print Cartridge	\$193.05
CN045AN HP 950XL Black Officejet Ink Cartridge	\$32.36
CN046AN HP 951XL Cyan Officejet Ink Cartridge	\$24.49
CN047AN HP 951XL Magenta Officejet Ink Cartridge	\$24.49
CN048AN HP 951XL Yellow Officejet Ink Cartridge	\$24.49
CN049AN HP 950 Black Officejet Ink Cartridge	\$22.43
CN050AN HP 951 Cyan Officejet Ink Cartridge	\$15.96
CN051AN HP 951 Magenta Officejet Ink Cartridge	\$15.96
CN052AN HP 951 Yellow Officejet Ink Cartridge	\$15.96
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
McREL Balanced Leadership for Leaders Face-to-Face Workshop	\$14,000/per 2-day workshop

(2 Days)	
McREL Managing Change for Leaders Follow-up Workshop Face-to-Face Workshop (2 Days)	\$14,000/per 2-day workshop
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom Face-to-Face Workshop (2+1 Days)	\$5,750 per 2-day workshop \$6,875 per 3-day workshop
Intel Transforming Learning with 1:1 Course: Learning with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Transforming Learning with 1-1 Course: Student Engagement with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Project-Based Approaches 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Assessment in 21st Century Classrooms 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Collaboration in the Digital Classroom 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Educational Leadership in the 21st Century 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Thinking Critically with Data 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Preparing for Online Assessments and choosing the Right Device for Your Environment 	\$3,125 per day \$625 per webinar

Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Moving from Print to Digital Text and Blended Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • BYOD: Bring Your Own Device Personalized Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Using Technology to Support the Common core State Standards 	\$3,125 per day \$625 per webinar
Common Sense Media Onsite Seminar – From Digital Students to Digital Citizens (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Be an Upstander! Addressing Cyberbullying in Schools (Half day or Full day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Keeping Track of Privacy and Digital Footprints (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – How to Respect Creative Work in Copy-past Culture (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Getting Smart about E-Rate (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
ClassLink LaunchPad Basic for Teachers (Half Day Remote Class)	\$575 per half day remote class
ClassLink Train-the-Trainer Turnkey Training for Your Leaders (Half Day Remote Class)	\$1,250 per half day remote class
ClassLink Advanced Onsite Launching School Improvement Class Face-to-Face Workshop (1 Day)	\$1,875 per 1-day workshop
Technical Training for HP Devices Face-to-Face Workshop (2 Days)	\$5,750 per 2-day workshop

*Notes 2. Additional travel and expense charges may apply Face-to-face workshops are limited to approximately 25 participants per workshop	
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
Managed Wi-Fi (ENA Air) Wireless Option:	
Optional Rogue Detection Service	\$2,810.40

* The lease pricing in this proposal is fixed through 5-31-13 (the “Initial Rate Expiration Date”) and is calculated using a 2-year swaps indexed to .38% (the “Initial Yield”). After the Initial Rate Expiration Date, the lease pricing applicable to this proposal may be adjusted if the Yield as indicated in the Federal Reserve Board's Statistical Release, H.15 - Selected Interest Rates, on the lease commencement date. Full four (4) year Lease at listed Tier 1, 2 and 3 Lease Prices at the current calculated rate would be:

- Full 4 Year Lease Price for **Tier 1** participants: \$1,257.12 per-seat per-year
- Full 4 Year Lease Price for **Tier 2** participants: \$1,380.60 per-seat per-year
- Full 4 Year Lease Price for **Tier 3** participants: \$1,466.06 per-seat per-year

Due to limitations in structure of the **Table 1 – Student/Teacher Learning Technology Solution Costs, HP has not included Cash Transaction pricing however HP is willing to provide upon request.

*** At this time HP is not prepared to offer a volume discount price

RIDER B
TERMS AND CONDITIONS FOR MASTER AGREEMENT

PARTICIPANTS: The National Association of State Procurement Officials (“NASPO”) is a national association of Chief Procurement Officers that has established a procurement cooperative for state government departments, institutions and political subdivisions (i.e., colleges, school districts, counties, cities, etc.) for the NASPO Member States and territories of the United States.

The Western States Contracting Alliance (WSCA) is fifteen members of NASPO who have focused on creating and managing multi-state cooperative contracts since 1993.

Obligations under contracts that result from this cooperative procurement are limited to those states and other eligible purchasing entities that execute a Participating Addendum.

Financial obligations of Participating States are limited to the orders placed by the departments or other state agencies and institutions having available funds.

Participating States incur no financial obligations on behalf of political subdivisions. Unless otherwise specified in the solicitation, the resulting Master Agreement(s) will be permissive.

DEFINITIONS:

“**Lead State**” means the State conducting this cooperative solicitation and centrally administering any resulting Master Agreement.

“**Master Agreement**” means this cooperative solicitation and contract, between the designated Lead State and the awarded contractors.

“**Offer**” or “**Bid**” or “**Proposal**” refers to the offer submitted in response to a solicitation, whether denominated as an invitation to bid, invitation for bid, request for proposal, or otherwise. “**Bidder**” or “**Offeror**” similarly refers to the person, company, or other entity submitting the bid or proposal that constitutes an offer capable of acceptance, regardless of the solicitation method used.

“**Permissive Price Agreement**” means that placement of orders through the agreement is discretionary with Purchasing Entities. They may satisfy their requirements through the Master Agreement without using statutory or regulatory procedures (e.g. invitations for bids) to solicit competitive bids or proposals. Purchasing Entities may, however, satisfy requirements without using the Master Agreement so long as applicable procurement statutes and rules are followed.

“**Participating Addendum**” means a bilateral agreement executed by a contractor and a Participating State (or a governmental entity/political subdivision with the consent of its state’s chief procurement officer) that clarifies the operation of the Master Agreement for the State concerned, e.g. ordering procedures specific to a State, and may add other state-specific language or other requirements.

“**Participating State (Entity)**” means a state (or entity (not a state), with the prior approval of its state chief procurement official) that has executed a Participating Addendum as required by this Master Agreement.

“**Purchasing Entity**” means a Participating State, or other legal entity, properly authorized by a Participating State to enter into a contract for the purchase of goods and/or services described in the cooperative procurement. Unless otherwise limited in the cooperative procurement or in a Participating Addendum, political subdivisions of Participating States are deemed Purchasing Entities.

REPORTING AND ADMIN FEES:

A. Reporting and Administrative Fees

1. The Contractor agrees to provide quarterly utilization reports to NASPO or WSCA and the Lead State Contract Administrator by the 15th of the month following the end of the previous quarter. (Ex. Purchases during January are reported by the 15th of April). The report shall be in the format developed by the Lead State and supplied to the Contractor prior to or upon execution of the Contract.

2. The Contractor agrees to provide quarterly Administrative Fee check payable to WSCA-NASPO for an amount equal to one-quarter of one percent (0.0025) of the net sales for the period. In the event the total aggregate volume of the net sales under all Master Agreements resulting from Request for Proposal #201210412 reaches one billion U.S. dollars (\$1,000,000,000.00) a calendar year, the quarterly Administrative Fee shall be reduced from one-quarter of one percent (0.0025) to one-tenth of one percent (0.001) of the net sales for the period. The form to be submitted with the check, as well as the mailing address, will be supplied to the Contractor after the execution of the Master Agreement. Payment shall be made in accordance with the following schedule:

<u>Period End</u>	<u>Payment & Report Due</u>
June 30	July 31
September 30	October 31
December 31	January 31
March 31	April 30

3. The Contractor agrees to include data from all Reseller/Distributor/VAR/Agent sales in the monthly utilization reports described above.

4. The utilization reports shall be submitted to the Lead State Contract Administrator via electronic mail in a Microsoft Excel spreadsheet format, or other methods such as direct access to Internet or other databases.

5. If requested by the Lead State Contract Administrator, the Contractor agrees to provide supporting Purchase Order detail records on mutually agreed media in a mutually agreed format.

6. The failure to file the utilization reports and fees on a timely basis shall constitute grounds for the removal of the Contractor's primary representative, suspension of this Agreement or termination of this Agreement for cause.

7. The NASPO, WSCA and the Lead State Contract Administrator shall be allowed access to all reports from all Purchasing Entities.

B. Participating Entity Reports and Fees

1. Participating Entities may require an additional fee be paid directly to the State on purchases made by Purchasing Entities within that State. For all such requests, the fee level, payment method and schedule for such reports and payments shall be incorporated in to the Participating Addendum that is made a part of this Agreement. The Contractor may adjust pricing accordingly for purchases made by Purchasing Entities within the jurisdiction of that State. All such agreements shall have no effect whatsoever on the NASPO administrative fee or the prices paid by the Purchasing Entities outside the jurisdiction of the State requesting the additional fee.

2. Purchasing Entities will be encouraged to use the reporting format developed by the Lead State for their

reporting needs. However, the Contractor agrees to provide additional reports to Purchasing Entities upon agreement by both parties as to the content and delivery methods of the report. Methods of delivery may include direct access to Internet or other databases.

3. Each State Purchasing Entity shall be allowed access to reports from all entities within that State.

QUANTITY ESTIMATES: Estimated quantities are informational and not to be construed as a warranty of accuracy of historical or anticipated volumes or a guarantee to purchase any amount.

SPECIFICATIONS: Any deviation from specifications must be clearly indicated by offeror, otherwise, it will be considered that the proposal is in strict compliance. When BRAND NAMES or manufacturers' numbers are stated in the specifications they are intended to establish a standard only and are not restrictive unless the solicitation says "no substitute." Offers will be considered on other makes, models or brands having comparable quality, style, workmanship and performance characteristics. Alternate proposals offering lower quality or inferior performance will not be considered.

ACCEPTANCE OR REJECTION OF BIDS AND PROPOSALS: The Lead State reserves the right to accept or reject any or all bids or proposals, or parts of bids or proposals, and to waive informalities therein.

SAMPLES: Generally, when required, samples will be specifically requested in the solicitation. Samples, when required, are to be furnished free of charge. Except for those samples destroyed or mutilated during testing, samples will be returned at an offeror's request, transportation collect.

CASH DISCOUNT TERMS: Offeror may quote a cash discount based upon early payment; however discounts offered for less than 30 days will not be considered in making the award. The date from which discount time is calculated shall be the date a correct invoice is received or receipt of shipment, whichever is later; except that if testing is performed, the date shall be the date of acceptance of the merchandise.

TAXES: Offered prices shall be exclusive of state sales and federal excise taxes. Where the state government entities are not exempt from sales taxes on sales within their state, the contractor shall add the sales taxes on the billing invoice as a separate entry.

MODIFICATION OR WITHDRAWAL OF BIDS AND PROPOSALS: Bids and proposals may be modified or withdrawn prior to the time set for receipt of bids or proposals. After the time set for receipt of bids or proposals, no proposal may be modified or withdrawn.

PATENTS, COPYRIGHTS, ETC: The Contractor shall release, defend, indemnify, and hold harmless NASPO, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from liability of any kind or nature, including the Contractor's use of any copyrighted or uncopyrighted composition, process, patented or unpatented invention, article or appliance furnished or used in performance of this contract.

AWARD: Multiple Master Agreements may be awarded as a result of this solicitation. Awards in requests for proposals (competitive sealed proposals) shall be made to the responsible offeror(s) whose proposals are determined to be the most advantageous to the Participating States, taking into consideration price and the other evaluation factors set forth in the solicitation. Unless otherwise stated in the solicitation, an award in a solicitation denominated as an invitation to bid will be made to the lowest responsive and responsible Bidder(s) meeting specifications and all bid terms and conditions. The Participating States reserve the right to award items separately or by grouping items, or by total lot.

NON-COLLUSION: By signing the proposal the offeror certifies that the proposal submitted, has been arrived at independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the solicitation, designed to limit independent bidding or competition.

TERMINATION: Unless otherwise stated in the solicitation, any Master Agreement entered into as a result of this solicitation may be terminated by either party upon 60-days' notice, in writing, prior to the effective date of the termination. Further, any Participating State may terminate its participation upon 30-days written notice, unless otherwise limited or stated in the special terms and conditions of the solicitation. Any termination under this provision shall not affect the rights and obligations attending orders outstanding at the time of cancellation, including any right of any Purchasing Entity to indemnification by the Contractor, rights of payment for goods/services delivered and accepted, and rights attending any warranty or default in performance in association with any order.

DEFAULT AND REMEDIES:

A. Any of the following shall constitute cause to declare the Master Agreement or any order under this Master Agreement in default:

- (1) Nonperformance of contractual requirements; or
- (2) A material breach of any term or condition of this Master Agreement.

B. A written notice of default, and an opportunity to cure, shall be issued by the party claiming default, whether the Lead State (in the case of breach of the Master Agreement), a Participating State (in the case of a breach of the Participating Addendum), the Purchasing Entity (with respect to any order), or the Contractor. Time allowed for cure shall not diminish or eliminate any liability for liquidated or other damages.

C. If the default remains after the opportunity for cure, the non-defaulting party may:

- (1) Exercise any remedy provided by law or equity;
- (2) Terminate the Master Agreement or any portion thereof, including any orders issued against the Master Agreement;
- (3) Impose liquidated damages, as specified in the solicitation or Master Agreement;
- (4) In the case of default by the contractor, and to the extent permitted by the law of the Participating State or Purchasing Entity, suspend contractor from receiving future solicitations.

LAWS AND REGULATIONS: Any and all supplies, services and equipment offered and furnished shall comply fully with all applicable Federal and State laws and regulations.

CONFLICT OF TERMS: In the event of any conflict between these standard terms and conditions and any special terms and conditions in the solicitation, the special terms and conditions shall govern.

REPORTS: The contractor shall submit quarterly reports to the Lead State contract administrator, and upon request to any Participating State, showing the quantities and dollar volume of purchases by each Purchasing Entity.

HOLD HARMLESS: The contractor shall release, defend, indemnify and hold harmless NASPO, the Lead State, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from and against any damage, cost or liability, including reasonable attorney's fees for any or all injuries to persons, property or claims for money damages arising from acts or omissions of the contractor, its employees or subcontractors or volunteers.

ORDER NUMBERS: Master Agreement numbers and purchase order numbers shall be clearly shown on all

acknowledgments, shipping labels, packing slips, invoices, and on all correspondence.

GOVERNING LAW AND VENUE: This procurement shall be governed and the resulting Master Agreement construed in accordance with the laws of the Lead State. The construction and effect of any Participating Addendum or order against the Master Agreement shall be governed by and construed in accordance with the laws of the Purchasing Entity's State. Venue for any claim, dispute or action concerning the construction and effect of the Master Agreement shall be in the Lead State. Venue for any claim, dispute or action concerning an order placed against the Master Agreement or the effect of a Participating Addendum shall be in the Purchasing Entity's State.

DELIVERY: The prices offered shall be the delivered price to any NASPO state agency or purchasing entity. All deliveries shall be F.O.B. destination with all transportation and handling charges paid by the contractor. Responsibility and liability for loss or damage shall remain the Contractor until final inspection and acceptance when responsibility shall pass to the Purchasing Entity except as to latent defects, fraud and Contractor's warranty obligations. The minimum shipment amount will be found in the special terms and conditions. Any order for less than the specified amount is to be shipped with the freight prepaid and added as a separate item on the invoice. Any portion of an order to be shipped without transportation charges that is back ordered shall be shipped without charge.

WARRANTY: The contractor acknowledges that the Uniform Commercial Code applies to this Master Agreement. In general, the contractor warrants that: (a) the product will do what the salesperson said it would do, (b) the product will live up to all specific claims that the manufacturer makes in their advertisements, (c) the product will be suitable for the ordinary purposes for which such product is used, (d) the product will be suitable for any special purposes that the Purchasing Entity has relied on the contractor's skill or judgment to consider when it advised the Purchasing Entity about the product, (e) the product has been properly designed and manufactured, and (f) the product is free of significant defects or unusual problems about which the Purchasing Entity has not been warned.

The contractor agrees to warrant and assume responsibility for each hardware, firmware, and/or software product (hereafter called the product) that it licenses, or sells, to the Purchasing Entity under this Master Agreement. When applicable, Contractor warrants that product(s) furnished pursuant to this contract shall, when used in accordance with the product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) transitions, including leap year calculations. Where a contractor proposes or an acquisition requires that specific products must perform as a package or system, this warranty shall apply to the products as a system.

Where contractor is providing ongoing services, including but not limited to: i) consulting, integration, code or data conversion, ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g., billing, invoicing, claim processing), contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of contractor's business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) various date/time transitions, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting therefrom, including but not limited to the failure or untimely performance of such services.

This Date/Time Warranty shall survive beyond termination or expiration of this contract through: a) ninety (90) days or b) the contractor's or product manufacturer/developer's stated date/time warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this contract for breach of warranty.

AMENDMENTS: The terms of this Master Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the Master Agreement Administrator of the Lead State.

ASSIGNMENT/SUBCONTRACT: Contractor shall not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this Master Agreement, in whole or in part, without the prior written approval of the Master Agreement Administrator of the Lead State.

NONDISCRIMINATION: The offeror agrees to abide by the provisions of Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibit discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age, and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. The offeror further agrees to furnish information and reports to Participating State(s), upon request, for the purpose of determining compliance with these statutes. Offeror agrees to comply with each individual state's certification requirements, if any, as stated in the special terms and conditions. This Master Agreement may be canceled if the offeror fails to comply with the provisions of these laws and regulations. The offeror must include this provision in every subcontract relating to purchases by the States to insure that subcontractors and vendors are bound by this provision.

SEVERABILITY: If any provision of this Master Agreement is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected; and the rights and obligations of the parties shall be construed and enforced as if the Master Agreement did not contain the particular provision held to be invalid.

INSPECTIONS: Goods furnished under this Master Agreement shall be subject to inspection and testing by the Purchasing Entity at times and places determined by the Purchasing Entity. If the Purchasing Entity finds goods furnished to be incomplete or not in compliance with proposal specifications, the Purchasing Entity may reject the goods and require Contractor to either correct them without charge or deliver them at a reduced price, which is equitable under the circumstances. If Contractor is unable or refuses to correct such goods within a time deemed reasonable by the Purchasing Entity, the Purchasing Entity may cancel the order in whole or in part. Nothing in this paragraph shall adversely affect the Purchasing Entity's rights including the rights and remedies under the Uniform Commercial Code.

PAYMENT: Payment for completion of a Master Agreement order is normally made within 30 days following the date the entire order is delivered or the date a correct invoice is received, whichever is later. The Contractor may assess overdue account charges on the outstanding balance in accordance with, and up to the maximum allowed by, the laws of the participating state. Payments may be remitted by mail or electronic funds transfer. Payments may also be made via a Purchasing Entity's "Purchasing Card". Please note: payments will only occur as a direct result of a Participating Addendum, and no payments will be made until a Participating Addendum is established with a Participating State.

FORCE MAJEURE: Neither party to this Master Agreement shall be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. The Lead State may terminate this Master Agreement after determining such delay or default will reasonably prevent successful performance of the Master Agreement.

HAZARDOUS CHEMICAL INFORMATION: The Contractor will provide one set of the appropriate material safety data sheet(s) and container label(s) upon delivery of a hazardous material to the Purchasing

Entity agency. All safety data sheets and labels will be in accordance with each participating state's requirements.

FIRM PRICE: Unless otherwise stated in the special terms and conditions, for the purpose of award, offers made in accordance with this solicitation must be good and firm for a period of ninety (90) days from the date of receipt of bids or proposals. Prices must remain firm for the full term of the Master Agreement.

EXTENSION OF PRICES: In the case of error in the extension of prices in the proposal, the unit prices will govern.

PROPOSAL PREPARATION COSTS: NASPO and the Lead State are not liable for any costs incurred by the offeror in preparation of the bid or proposal.

CERTIFICATION REGARDING CONFLICT OF INTEREST: Contractor certifies that it has not offered or given any gift or compensation prohibited by the state laws of any Participating State to any officer or employee of NASPO or Participating States to secure favorable treatment with respect to being awarded this contract.

INDEPENDENT CONTRACTOR: Contractor shall be an independent contractor, and as such shall have no authorization, express or implied to bind the Participating States to any agreements, settlements, liability or understanding whatsoever, and agrees not to perform any acts as agent for NASPO or the states, except as expressly set forth herein.

POLITICAL SUBDIVISION PARTICIPATION: Participation under this Master Agreement by political subdivisions (i.e., statutorily eligible colleges, school districts, counties, cities, etc.) of a NASPO state, with the prior approval of the state chief procurement official, shall be voluntarily determined by the political subdivision.

The contractor agrees to supply the political subdivisions based upon the same terms, conditions and prices.

CERTIFICATION REGARDING DEBARMENT: The Contractor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract) by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by NASPO.

RECORDS ADMINISTRATION: The Contractor will maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this Master Agreement. These records will be retained by the Contractor for at least four years after the Master Agreement terminates, or until all audits initiated within the four years have been completed, whichever is later.

AUDIT OF RECORDS: The Contractor agrees to allow NASPO, State and Federal auditors, and state agency staff access to all the records related to this Master Agreement, and the right to copy those records, for audit, inspection and monitoring of services. Such access will be during normal business hours, or by appointment.

PRICES AS CEILING: Master Agreement prices represent ceiling prices for the supplies and services priced in the Master Agreement.

The vendor shall report to the Lead State any price reduction or discount, or other more favorable terms, offered to any Purchasing Entity.

In instances NOT related to the established standards, committed volumes or volume bulk purchases of a participating state or states, the awarded vendor agrees to negotiate in good faith to reestablish ceiling prices or other more favorable terms and conditions applicable to future orders.

STATE PARTICIPATION/UNIQUE TERMS AND CONDITIONS: Apart from the Lead State conducting the solicitation, the States included in Appendix E, State Profiles, have signified their initial intent to participate in a Master Agreement resulting from this Solicitation. Attachment A of the Solicitation includes any significant modifications to these terms and conditions or State-specific provisions required by the laws, regulations, or procurement practices of the State(s). Final participation in the Master Agreement by the State(s) shall be signified through the execution of a Participating Addendum.

After the solicitation has closed and an award has been made, additional NASPO members may be added with the consent of the contractor through execution of a Participating Addendum.

RENTAL AND LEASES:

Rental: Individual Participating States and Participating Entities may enter in to rental agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in rental agreements with these individual states/entities must submit copies of all of their rental agreements with their responses to this RFP. The rental agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a rental agreement with a Contractor.

Leases: Individual Participating States and Participating Entities may enter in to lease agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in lease agreements with these individual states/entities must submit copies of all of their lease agreements with their response to this RFP. The lease agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a lease agreement with a Contractor.

NON-APPROPRIATION: The terms of the Agreement and any purchase order issued for multiple years under this Agreement is contingent upon sufficient appropriations being made by the Legislature or other appropriate governing entity. Notwithstanding any language to the contrary in this Agreement or in any purchase order or other document, a Purchasing Entity may terminate its obligations under this Agreement, if sufficient appropriations are not made by the governing entity at a level sufficient to allow for payment of the goods or services due for multiple year agreements, or if operations of the paying entity are being discontinued. The Purchasing Entity's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final and binding.

A Purchasing Entity shall provide sixty (60) days' notice, if possible, of its intent to terminate for reason cited above. Such termination shall relieve the Purchasing Entity, its officers and employees from any responsibility or liability for the payment of any further amounts under the relevant Purchase Order.

WSCA-NASPO eMARKET CENTER: Awarded responders are required to participate in the WSCA-NASPO eMarket Center and, working through WSCA's contractor (SciQuest), connect with the eMarket Center. The ideal situation would be to use either a hosted (by SciQuest) or Punchout Level 2 catalog configurations, but actual requirements will be determined by the Lead State Contract Administrator, WSCA, WSCA's contractor (SciQuest) and the awarded contractor, after award. Participation does not require an awarded responder to have any special level of technology or technological understanding.

RIDER G
IDENTIFICATION OF COUNTRY
IN WHICH CONTRACTED WORK WILL BE PERFORMED

Please identify the country in which the services purchased through this contract will be performed:

- United States. Please identify state: multiple; location will match participating state**
- Other. Please identify country: _____**

Notification of Changes to the Information

The Provider agrees to notify the State of Maine Division of Purchases of any changes to the information provided above.

APPENDIX A
Request For Proposals #201210412: Multi-State Learning Technology Initiative

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STATE OF MAINE
DEPARTMENT OF EDUCATION
in coordination with the
NATIONAL ASSOCIATION OF STATE PROCUREMENT OFFICIALS
hereby releases

RFP # 201210412

MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

RFP Coordinator:

Jeff Mao
Learning Technology Policy Director
State of Maine Department of Education
23 State House Station
Augusta, ME 04333

e-mail: jeff.mao@maine.gov

From the time this RFP is issued until award notification is made, all contact with the Sourcing Team or any State Government Officials regarding this RFP must be made through the aforementioned RFP Coordinator. Only those answers issued in writing by the RFP Coordinator will be considered binding.

Bidders' Conference: November 29, 2012 at 10:00 am local time
Held in Daggett Lounge of Thorne Hall, on the campus of Bowdoin College, Brunswick, Maine

Deadline for Submitted Questions: December 12, 2012, not later than 5:00 pm local time

Proposals Due: January 11, 2013, not later than 2:00 pm local time

Proposals are due to:

State of Maine
Division of Purchases
Burton M. Cross Building, 111 Sewall Street, 4th Floor
9 State House Station, Augusta ME 04333-0009

TABLE OF CONTENTS

Public Notice	9
PART I INTRODUCTION	10
A. Purpose and Background.....	10
B. General Provisions	11
C. Eligibility to Submit Proposals and Alternate Proposals	12
D. Number of Awards and Contract Structure	12
E. Participating Entities	12
F. Contract Term.....	13
PART II SCOPE OF SERVICES	14
1. Scope of Work.....	14
1.1. Bidder Response to Service Specifications and Requirements	14
2. Overview	14
2.1. Maine Education Strategic Plan	15
3. Scope of Procurement: Learning Technology Wireless Classroom Solution	15
3.1. Maine Scope of Procurement	15
3.2. Hawaii Scope of Procurement.....	16
4. Services Provided By Other Entities	16
4.1. Building Preparedness.....	16
4.2. Connectivity and Adequate Bandwidth to Each School Building	16
4.3. Home Access to the Internet	16
4.4. Content, Assessment, and Integration	16
4.5. Primary Research Databases	17
4.6. Program Evaluation and Assessment	17
5. Participation by Schools.....	17
5.1.1. Maine school participation	17
5.1.2. Hawaii school participation	18
5.1.3. Vermont school participation	18
5.2. Opt-in	19
5.2.1. Maine Opt-in.....	19
5.2.2. Hawaii Opt-in	19
5.2.3. Vermont Opt-in.....	19
5.3. Full Deployment.....	19
5.3.1. Maine Deployment	19
5.3.2. Hawaii Deployment.....	19
5.3.3. Vermont Deployment	19
6. Personal Computing Device & Software Applications.....	20
6.1.1. Maine Participating Users	20
6.1.2. Hawaii Participating Users	20
6.1.3. Vermont Participating Users	20
6.2. Device Quantities	20

6.2.1. Teachers and Staff	20
6.3. Students	21
6.3.1. Maine Students	21
6.3.2. Hawaii Students	21
6.3.3. Vermont Students	22
6.4. Students with Disabilities	23
6.5. Device Functional Requirements	23
6.5.1. Assessment Compatibility	23
6.5.2. Device Connectivity	23
6.5.3. Device Portability	23
6.5.4. Device Durability	24
6.5.5. Device Power	24
6.5.6. Keyboard	24
6.5.7. Screen	25
6.5.8. Mouse/Pointing Function	25
6.5.9. Audio	25
6.5.10. Camera	25
6.5.11. Size	25
6.5.12. Ports	25
6.5.13. Boot Time/Wake Time	25
6.5.14. Upgrades	25
6.5.15. Ergonomics	25
6.5.16. Accessibility	26
6.5.17. Disposal	26
6.6. Software and Function	26
6.6.1. Applications	26
6.6.2. Multi-State Standards	27
6.6.3. State Specific Standards	28
6.6.4. Network and Device Connectivity	30
6.6.5. Distance and Online Learning	30
6.6.6. Student Information Systems	30
6.6.7. Stand-alone	30
6.6.8. Cloud Requirements	31
6.6.9. Software Updating	31
6.6.10. Software Restore	31

6.6.11. Operating System and Software	31
6.7. Device Options	32
6.7.1. Optional Software	32
6.7.2. Optional Hardware	33
6.8. Pricing Schedules for Additional Educational Groups	33
6.8.1. Maine K-6 schools	33
6.8.2. Maine Pre-service Teachers and Higher Education	34
7. Network Connectivity and Infrastructure	34
7.1. Building Readiness	34
7.1.1. Maine - Existing MLTI Wireless Networks	34
7.1.2. Hawaii - Existing Wireless Networks	35
7.2. Local Network and Access	35
7.2.1. Wireless Coverage	35
7.2.2. Wireless Access	35
7.2.3. Wireless Bandwidth	35
7.2.4. Internet Access	36
7.2.5. Existing School Networks	37
7.2.6. Server Functional Partitioning	37
7.2.7. Growth	37
7.2.8. Print Services	37
7.3. Remote Network Access	37
7.3.1. Portability	37
7.3.2. Other Devices	37
8. Performance and Quality	37
8.1. Uptime	38
8.2. Device Reliability	38
8.3. Response Time	38
8.4. Business Continuity/Disaster Recovery	38
8.5. Server Failure	38
8.6. UPS	38
8.7. Performance Metrics and Reporting	39
9. Functional and Asset Security	39
9.1. Wireless Security	39
9.2. Authorization Control	39
9.3. Anti-virus Protection	39
9.4. Backups	39
9.5. Warranty, Insurance, Damage, and Theft	40
9.5.1. Warranty	40
9.5.2. Insurance and Damage	40
9.5.3. No-Fault Protection	40

9.5.4. Theft Deterrent	40
9.6. Asset Management	41
9.6.1. Site and District Management	41
9.6.2. Transfers	41
9.6.3. Replacements	42
9.6.4. Asset History	42
9.6.5. School Information	42
9.6.6. Reporting	42
10. Professional Development, Curriculum Integration, and Consultation	43
10.1.1. Maine Transition Support	43
10.2. Curriculum Integration Professional Development	43
10.2.1. Educator Professional Development.....	43
10.2.2. Leadership Professional Development	44
10.2.3. Technical Professional Development	45
10.3. Ownership of Content and Curricula	46
11. Support and Maintenance	46
11.1. Solution Support	46
11.2. Service and Support Plan	47
12. Project Management and Implementation.....	47
12.1. Project Plan and Deliverables	47
12.1.1. Project Plan	47
12.1.2. Validation Testing	47
12.1.3. Educational Conferences	47
12.1.4. Implementation	47
12.1.5. Professional Development	48
12.1.6. Support and Service	48
12.1.7. Timeline	48
12.1.8. Project Staffing	49
12.1.9. Coordination with Schools	49
12.1.10. Work Within Schools.....	49
12.1.11. Change Control	49
12.1.12. Project Management Reporting	49
12.1.13. Ongoing Improvements	50
PART III KEY RFP EVENTS	51
A. Timeline of Key RFP Events	51
B. Bidders' Conference	51
C. Questions.....	51
D. Submitting the Proposal	51

PART IV PROPOSAL SUBMISSION REQUIREMENTS	53
A. Proposal Format	53
B. Proposal Contents	53
1.1.1. <u>Section I</u> Organization Qualifications and Experience.....	53
1.1.2. <u>Section II</u> Specifications of Work to be Performed.....	54
1.1.3. <u>Section III</u> Cost Proposal.....	54
1.1.4. <u>Section IV</u> Economic Impact.....	54
PART V PROPOSAL EVALUATION AND SELECTION	56
A. Evaluation Process - General Information	56
B. Scoring Weights and Process.....	56
C. Selection and Award	57
D. Appeal of Contract Awards.....	57
PART VI CONTRACT ADMINISTRATION AND CONDITIONS	58
Contract Document.....	58
Standard Agreement Provisions	58
PART VII LIST OF RFP APPENDICES AND RELATED DOCUMENTS	59
PART VIII APPENDICES	60
Appendix A – PROPOSAL COVER PAGE.....	60
Appendix B – COST PROPOSAL FORM	61
Appendix C – PARTICIPANT TIER STRUCTURE	63
Appendix D - NASPO Standard Terms and Conditions	64
Appendix E - State Profiles - Maine	73
1. Maine.....	73
1.1. Legal/Policy Landscape	73
1.2. Contract / Participating Addendum.....	74
1.3. Budget/Financial	74
1.4. Experience with 1:1.....	74
1.5. Broadband Infrastructure.....	75
1.6. Wireless Network Infrastructure	84
1.7. Current Software	105
1.8. School Sites	106
1.9. Services Provided by Other Maine Entities	107
1.9.1. Building Preparedness	108
1.9.2. Home Access to the Internet.....	108
1.9.3. Content, Assessment, and Integration	108
1.9.4. Primary Research Databases	108
1.9.5. Program Evaluation and Assessment	108
Appendix E - State Profiles - Hawaii	109
2. Hawaii	109
2.1. Overview	109
2.2. Hawaii enrollment (projected) 2012-13	109
2.3. Deployment	110
2.4. Services Provided by Other Entities.....	110
2.5. Glossary of terms:	110
2.6. Hawaii Infrastructure planning:	111
2.7. NASPO Intent to Participate	116

Appendix E - State Profiles - Vermont	117
3. Vermont.....	117
3.1. Demographics.....	117
3.2. Services Provided by Other Entities.....	117
3.3. Broadband	118
3.4. Budget/Funding:.....	118
3.5. Purchasing authority for multi-state and co-operative agreements:.....	118
3.6. NASPO Intent to Participate	119
4. Additional NASPO Intent to Participate, Additional States	119
Appendix F – Microsoft Letter.....	120
Appendix G – Additional Forms – Staff Experience with Similar Projects	121
Appendix G – Additional Forms – Portable Computing Device Specifications Summary	122
Appendix G – Additional Forms – Wireless Local Area Network Specifications Summary.....	124

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Public Notice

State of Maine
Department of Education
in coordination with the
National Association of State Procurement Officials
hereby releases

Public Notice for RFP # 201210412

MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

The State of Maine Department of Education’s Maine Learning Technology Initiative (MLTI) is leading a multi-state effort to undertake the procurement process described below. The multi-state effort is being carried out in coordination with all the participating National Association of State Procurement Officials (NASPO) members, on an as-requested basis, at various locations throughout the geographic regions of all participating NASPO members. This multi-state group, led by the State of Maine, has a requirement for equipment and services to empower a wireless student-centered, digital learning environment. In accordance with State procurement practices, the State of Maine Department of Education is hereby announcing the publication of a Request for Proposals (RFP) #201210412 for the purchase of the aforementioned goods and services.

A copy of the RFP can be obtained by download at <http://www.maine.gov/mlti/rfp/> or by contacting the State of Maine Department of Education’s RFP Coordinator for this project: Jeff Mao, Learning Technology Policy Director. The RFP Coordinator can be reached at the following email address: jeff.mao@maine.gov or mailing address: State of Maine Department of Education, 23 State House Station, Augusta, ME 04333. The Department encourages all interested vendors to obtain a copy of the RFP and submit a competitive proposal.

A Bidders’ Conference is anticipated for this procurement process. The Bidders’ Conference is scheduled for November 29, 2012 at 10:00 am, and to be held in Daggett Lounge of Thorne Hall, on the campus of Bowdoin College in Brunswick, Maine. Interested Bidders are strongly encouraged to attend.

Proposals must be submitted to the State of Maine Division of Purchases, located at the Burton M. Cross Office Building, 111 Sewall Street, 4th Floor, 9 State House Station, Augusta, Maine, 04333-0009. Proposals must be submitted by 2:00 pm, local time, on January 11, 2013, when they will be opened at the Division of Purchases’ aforementioned address. Proposals not received at the Division of Purchases’ aforementioned address by the aforementioned deadline will not be considered for contract award.

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials
hereby releases

RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

PART I INTRODUCTION

A. Purpose and Background

The State of Maine Department of Education (“Department”) Maine Learning Technology Initiative (MLTI) and the State of Maine Division of Purchases are collaborating to lead a multi-state effort to undertake the procurement process described in this Request for Proposals (RFP) document. This multi-state effort is being undertaken in coordination with all participating National Association of State Procurement Officials (NASPO) members, on an as-requested basis, at various locations throughout the geographic regions of all participating NASPO members. This document provides a description of the program and services sought, instructions for submitting proposals, the procedure and criteria by which the Bidder(s) will be selected, and the contractual terms which will govern the relationship between the participating states and the awarded Bidder(s).

As noted above, the State of Maine is leading a multi-state Sourcing Team in this procurement process. As noted above, the multi-state procurement process is facilitated in concert with the members of the National Association of State Procurement Officials (NASPO). More information about NASPO and its members can be found at the following web address: www.naspo.org. This multi-state Sourcing Team has a requirement for equipment and services to empower a wireless student-centered, digital learning environment that provides students with learning technology on a 1:1 (one machine per student/teacher) basis.

Given that the State of Maine is the lead state, the procurement process will follow Maine’s procurement-related statutes and rules. Other states or entities that participate under this Multi-State Learning Technology Initiative RFP do so at their own discretion, and are not subject to Maine’s statutes or rules. Other states participating on the Sourcing Team for this procurement process are the States of Hawaii and Vermont. Other states, although not members of the Sourcing Team, are not precluded from participating in the anticipated program that results from this RFP. Additionally, even if a state does not participate on a state-wide basis, then individual school districts may choose to participate, at the school district’s discretion and in accordance with its procurement policies.

The following is a list of states that currently intend to participate under the program resulting from this RFP:

Hawaii
Maine
Montana
Vermont

Please note, the aforementioned intention to participate is non-binding, and future participation is not limited to the states listed above.

The following is provided only as background information on the history of this program in the State of Maine. The State of Maine is acting as the lead state in this multi-state process due to the fact that Maine has had a long-running 1:1 learning technology program, known as the Maine Learning Technology Initiative (MLTI). MLTI was first launched in the spring of 2002, and it has established itself as a leader in 1:1 learning. MLTI was established in Maine law (<http://www.mainelegislature.org/legis/statutes/20-A/title20-Ach801sec0.html>) in 2001 during the 120th Legislature, First Regular Session. Documents and information related to the inception and on-going efforts of the MLTI including research, previous RFPs, and information about the existing solution, can be found at its websites: <http://maine.gov/mlti>, <http://www.mlti.org>, <http://www.maine121.org>, and on iTunesU at: <http://www.mlti.org/itunesu>.

B. General Provisions

1. Issuance of this RFP does not commit the Sourcing Team to issue an award. Bidders are responsible for all expenses incurred by a Bidder in the preparation of a response to this RFP. This includes attendance at personal interviews/presentations, or other meetings and software or system demonstrations, where applicable.
2. All proposals should adhere to the instructions and format requirements outlined in this RFP and all written supplements and amendments (such as the Summary of Questions and Answers), issued by the Sourcing Team. Proposals are to follow the format and respond to all questions and instructions specified below in the “Proposal Submission Requirements and Evaluation” section of this RFP.
3. Bidders shall take careful note that in evaluating a proposal submitted in response to this RFP, the Sourcing Team will consider materials provided in the proposal, information obtained through interviews/presentations (if any), and internal Departmental information of previous contract history with the Bidder (if any). The Sourcing Team also reserves the right to consider other reliable references and publicly available information available in evaluating a Bidder’s experience and capabilities. The proposal shall be signed by a person authorized to legally bind the Bidder and shall contain a statement that the proposal and the pricing contained therein will remain valid and binding for a period of 180 days from the date and time of the bid opening.
4. The RFP and the selected Bidder’s proposal, including all appendices or attachments, may be incorporated in the final contract.
5. Following announcement of an award decision, all submissions in response to this RFP will be considered public records available for public inspection pursuant to the State of Maine Freedom of Access Act (FOAA) (1 M.R.S. §§ 401 *et seq.*). In the event a request is made to produce any proposal, the Department will notify the Bidder whose proposal has been requested that the Department will produce the proposal unless the Bidder takes steps it deems necessary to prohibit production. The Department will not undertake to determine where any proposal or part of any proposal is confidential or otherwise protected from disclosure.
6. The Sourcing Team, at its sole discretion, reserves the right to recognize and waive minor informalities and irregularities found in proposals received in response to this RFP.
7. **Each participating state’s procurement authority** reserves the right to authorize other Departments or public entities within that state to use the contract(s) resulting from this RFP, if it is deemed to be beneficial for the state to do so.
8. Although the overall 1:1 learning technology program will be similar from state to state, Bidders must recognize that each state will ultimately have differences in the implementation and requirements of its specific program, and such differences shall not necessitate cost variations from that which is proposed by the Bidder through this RFP process.

9. If a Bidder cannot provide something as described in the Scope of Services section of this RFP, then that Bidder may propose something that is functionally equivalent, and provide an explanation of that equivalency. Functional equivalency will ultimately be determined by the Sourcing Team.
10. All applicable laws, whether or not herein contained, shall be included by this reference. It shall be the Bidder's responsibility to determine the applicability and requirements of any such laws and to abide by them. Such laws include, but are not limited to, prevailing wage rate requirements for any aspect of the services provided within each Bidder's proposal.

C. Eligibility to Submit Proposals and Alternate Proposals

Public agencies, private for-profit companies, and non-profit companies and institutions are invited to submit proposals in response to this Request for Proposals. The Sourcing Team recognizes that no single entity is likely capable of fulfilling the entirety of the needs as described in this RFP, and encourages partnerships and consortia of entities to work together to respond to this RFP. Each proposal, however, must clearly identify a prime Bidder. The prime Bidder will be responsible for providing all deliverables as defined by the resulting contract according to the terms and conditions as set forth in the resulting contract.

Bidders may submit one (1) alternate proposal. The alternate should be submitted separately, and it should follow all requirements as set forth in this RFP. Alternate proposals will be reviewed and scored according to the same requirements and guidelines as all other proposals. The Sourcing Team is only interested in alternate proposals if the alternate is *materially different* (such as the use of a completely different personal computing device) than the main proposal. Alternate proposals should be labeled clearly on the cover page "ALTERNATE PROPOSAL".

D. Number of Awards and Contract Structure

The Sourcing Team anticipates making multiple awards as a result of this RFP process. These multiple awards will make up a pre-qualified list of vendors, and will take the form of a Master Price Agreement between each pre-qualified vendor and the National Association of State Procurement Officials. Details on the Master Price Agreements are provided in Part VI.A. ("Contract Document") of this RFP.

After the pre-qualified list has been established, each individual state that chooses to participate in this program will be able to select the vendor (or vendors) whose proposed solution would be in the best interests of that participating state, at the participating state's sole discretion. This selection will take the form of a Participating Addendum between the pre-qualified vendor(s) and the participating state. Details on the Participating Addendum are provided in Part VI.A. ("Contract Document") of this RFP.

E. Participating Entities

Potential Participating Entities include members of the National Association of State Procurement Officials (NASPO). The National Association of State Procurement Officials is a national association of Chief Procurement Officers that has established a procurement cooperative for state government departments, institutions and political subdivisions (i.e., colleges, school districts, counties, cities, etc.) for the NASPO Member States and territories of the United States.

Obligations under contracts that result from this cooperative procurement are limited to those states and other eligible purchasing entities that execute a Participating Addendum to the Master Price Agreement.

Financial obligations of Participating States are limited to the orders placed by the Department of Education having available funds, and must be in accordance with that Participating State's procurement rules and procedures.

Participating States incur no financial obligations on behalf of political subdivisions.

Unless otherwise specified in the solicitation, the resulting Master Price Agreement(s) will be permissive and allow for flexibility at the discretion of the Participating States, in order to accommodate future usage. The Master Price Agreements are non-binding on the Participating States, and the usage of the Master Price Agreements shall be determined by the individual Participating States through subsequent Participating Addenda.

F. Contract Term

The Sourcing Team is seeking a cost-efficient proposal to provide services, as defined in this RFP, for the anticipated contract period defined in the table below. Please note that the dates below are estimated and may be adjusted as necessary in order to comply with all procedural requirements associated with this RFP and the contracting process of each participating state. The actual contract start date will be established by a completed and approved contract.

Contract Renewal: Following an initial four-year term of the Master Price Agreement, the Sourcing Team may opt to renew the Agreement for six renewal periods of one year each, subject satisfactory performance. This creates a possible grand total of ten years of contract performance. There is no guarantee, however, that a renewal period will be exercised, and Bidders should have no expectation of this occurring.

The term of the anticipated Master Price Agreement, resulting from this RFP, is defined as follows:

Period	Start Date	End Date
Initial Period of Performance	July 1, 2013	June 30, 2017
Renewal Period #1	July 1, 2017	June 30, 2018
Renewal Period #2	July 1, 2018	June 30, 2019
Renewal Period #3	July 1, 2019	June 30, 2020
Renewal Period #4	July 1, 2020	June 30, 2021
Renewal Period #5	July 1, 2021	June 30, 2022
Renewal Period #6	July 1, 2022	June 30, 2023
<i>Total possible years of performance:</i>		10 years

Participating states may choose to award and renew their individual Participating Addenda at their discretion.

PART II SCOPE OF SERVICES

1. Scope of Work

1.1. Bidder Response to Service Specifications and Requirements

Part II, SCOPE OF SERVICES represents the State of Maine's specifications and requirements for its Learning Technology Wireless Classroom Solution. It also includes the information required to be supplied by the Bidder as part of its response to this proposal. For each requirement in **Part II, SCOPE OF SERVICES**, each Bidder must respond appropriately. Failure of the Bidder to provide completely the required information as specified in each of the bullets below may result in the Bidder's proposal not achieving its maximum scoring potential during the evaluation process.

- The appropriate response to some requirements may simply be for the Bidder to acknowledge and to agree to comply fully with the requirement.
- More typically, the Bidder must specify and describe how its solution meets or exceeds the requirements.
- Each Bidder must also specify, describe and clarify its proposal's characteristics and strengths as well as any weaknesses or limiting factors.

Complete instructions are in **Part IV, PROPOSAL SUBMISSION REQUIREMENTS**.

2. Overview

Maine's state learning technology plan enacted by the Legislature in June 2001 must provide for:

- Portable computing devices for every 7-12th grade student and teacher with functional software appropriate to grade level;
- Obtaining basic research information and databases;
- An alternative equivalent value factor option to school administrative units if they meet the standards of the learning technology plan;
- Teacher technology and professional development;
- External and internal networks and technical support;
- Costs for replacement of portable computing devices, servers and other equipment; and
- An evaluation component.

Not all of these items are included in this RFP. Please see **Part II, Section 4, Services Provided by Other Entities** for general information, and **Appendix E, State Profiles**, for descriptions of state-specific services provided by other entities.

A copy of Maine's state learning technology plan may be downloaded at:

<http://maine.gov/mlti/resources/history/mlterpt.pdf>

This plan led to the successful creation of the Maine Learning Technology Initiative (MLTI) that has provided notebook computers to every 7th and 8th grade students in Maine public schools since the 2002-2003 school year. The original MLTI solution was procured via a Request For Proposals (RFP) that led to the deployment of over 36,000 notebook computers, the installation of over 230 wireless 802.11b networks, and hundreds of hours of professional development for teachers, school administrators, and technology support personnel. In 2006, a

second RFP was issued that led to the deployment of over 45,000 notebook computers, the installation of new 802.11b/g wireless networks, and hundreds of hours of professional development. Prior to the expiration of the second contract, the State of Maine renegotiated the agreement to allow for the expansion of the program to Maine's high schools. In 2009, MLTI deployed nearly 75,000 notebook computers to its middle schools and over half of Maine's high schools, installed new 802.11 b/g/n wireless networks, and again provided hundreds of hours of professional development.

This RFP seeks the next generation solution for the Maine Learning Technology Initiative. In addition, working collaboratively with NASPO, it seeks to broaden the opportunity for other states to implement similar solutions for schools across the country. With the wide adoption of the Common Core State Standards and the development of the Next Generation Science Standards, the opportunity for States to collaborate and share is vast. The learning targets are the very much the same in many states. However, just as good teaching requires personalization to meet a student's needs, the implementation of a 1:1 program will require some personalization to meet each state's needs. Throughout this RFP, Bidders are asked to respond to functional requirements and other provisions of the RFP. In many places, Bidders are not specifically asked for responses specific to Maine or any state in particular. These are areas that the sourcing team believed to be general and applicable to all. In other places, Bidders will find specific instructions or descriptions specific to Maine or another sourcing team state (Hawaii or Vermont). This RFP seeks Bidders able to provide both a dependable, robust solution and the flexibility to tailor certain aspects to the individual needs of states.

2.1. Maine Education Strategic Plan

The MLTI is a critical component of a larger system envisioned by Maine's Education Strategic plan, "Education Evolving: Maine's Plan for Putting Learners First" (<http://www.maine.gov/doe/plan/>). The plan is shaped around five core priority areas that address the various elements of building an education system focused on the needs of all learners:

- Effective, Learner-Centered Instruction
- Great Teachers and Leaders
- Multiple Pathways for Learner Achievement
- Comprehensive School and Community Supports
- Coordinated and Effective State Support

Bidders should consider the Plan as it designs its solution.

3. Scope of Procurement: Learning Technology Wireless Classroom Solution

The awarded Bidder(s) must provide a solution that is both functionally complete and cost-effective. The Provider must demonstrate the ability, capacity, and flexibility to collaborate successfully and actively with the participating state, as well as schools and any other state partner that may wish to be involved, through its own participating addendum.

3.1. Maine Scope of Procurement

In order to secure the vision described in Part II, the State of Maine seeks to procure services that would provide personal, portable computing devices with suitable basic applications and functionality for all 7th through 12th grade students and teachers. In addition to these devices, the State of Maine seeks to procure installed or upgraded wireless networks for all participating middle and high schools as necessary, appropriate server capacity, professional development and technical support. The procurement sought will also include a number of optional schedules for equipment or services that local school units or other entities may choose to take advantage of at their own

expense.

3.2. Hawaii Scope of Procurement

Digital Materials Using Tablets and Laptops

Hawaii's "Digital Materials Using Tablets and Laptops" approach means that the state will separately purchase curricular materials with a digital component. To ensure all students are able to access the digital components of the curriculum, the state is currently planning to purchase tablets for elementary and middle grades and laptops for grades 9-12. Digital materials are easily updated at little to no cost and leveraging statewide buying power will also result in lower per-unit costs. The purchase of a digital curricular package will include professional development and technical assistance from the publisher and the contract to purchase tablets will also include corresponding technical assistance to complement the curricular package. Finally, the devices will serve multiple purposes as the end of course exams, bridge HSA (Hawaii State Assessment), and Smarter Balanced assessments will all be computer-based and delivered online.

4. Services Provided By Other Entities

This subsection describes in general terms the services critical to the success of the statewide initiative that are provided in whole or in part by an entity other than the Provider. As described in this section, the Bidder will be responsible to coordinate the design and deployment of the bid solution in order to appropriately complement and leverage these activities or resources. Some of these items are described more fully hereafter in conjunction with the relevant specifications. Note that this list is not exhaustive.

4.1. Building Preparedness

Each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution. The local school unit shall address structural issues, construction/renovation, abatement, and electrical wiring needs, based on specifications supplied by the Provider. The bid solution should be designed to minimize necessary costs of building preparation.

4.2. Connectivity and Adequate Bandwidth to Each School Building

Each local school unit that opts to participate in this program shall be responsible to ensure adequate bandwidth and connectivity to the school facility. The bid solution should be designed to minimize the need to upgrade the available bandwidth at each school. Bidders should note minimum bandwidth requirements to best implement the proposed solution in its response in **Section 6.6.8, Cloud Requirements**.

4.3. Home Access to the Internet

Educators and students who participate in this program are individually responsible for providing Internet access at home. It is beyond the scope of this RFP to seek home Internet connectivity for individual users while away from the wireless infrastructure described in **Section 7, Network Connectivity and Infrastructure**.

4.4. Content, Assessment, and Integration

Many states are "local control" states with regard to curriculum and selection of instructional

materials. State content standards describe what children should know and be able to do at each grade span. Many states have adopted the Common Core State Standards for English Language Arts and Mathematics. In addition, it is anticipated that many will adopt the Next Generation Science Standards in the future upon their completion. However, in local control states, local school units and classroom teachers are left with academic freedom to design lessons and select materials. Although the Bidder may include options for services regarding content, assessment tools, and other materials, any such services should be premised on a system of locally developed and selected curriculum, instruction and assessment.

4.5. Primary Research Databases

Many states have centralized, coordinated access to online and electronic content, databases, and other similar resources. While the Sourcing Team is interested in options for services regarding content, these should not be included in the per seat cost of the solution, but rather offered as optional purchases for each state to consider within the context of its own state.

4.6. Program Evaluation and Assessment

Each participating state will make provisions outside the scope of this Request for Proposal for outside analysis and evaluation of the impact and success of the project. The Provider should be prepared to supply its required reports and documents in a time, manner, and format specified by the participating state that will enable adequate program evaluation.

5. Participation by Schools

It is assumed that participation at the school level within any state that elects to participate in this program will vary significantly based on numerous differences in state policies and funding.

5.1.1. Maine school participation

All two hundred six (206) Maine middle schools (grades 7-8) are eligible to participate in the program. Since the inception of the program, 100% of Maine middle schools have participated in the program. It is estimated that one hundred twenty (120) Maine high schools (grades 9-12) are eligible to participate in the program. Starting in 2009, 55% of Maine high schools have been participating in the program. The number of classrooms and students within schools varies widely. Maine has many small, rural schools. A significant proportion – roughly 48% – of the schools that serve 7th and 8th grade students are K-8 elementary schools.

Maine is a strong “local control” state. Although Legislature and the Department of Education provide statewide policy direction, each of Maine’s 230 school units, organized on a municipal or regional basis, has an elected school board with general statutory responsibility for policy and operational oversight of each school.

The State will pay for participating middle schools including student and eligible staff seats as well as wireless networks. The State will also pay for participating high schools including eligible staff seats and wireless networks, but not student seats. Local school districts are responsible for the costs of student seats for students at participating schools in grades other than grade 7 or grade 8. It is expected that many Maine schools serving grades K-6 will also wish to participate in this program. Please see **Section 6.8.1, Pricing Schedule for Additional Educational Groups** for more information about Maine K-6 schools. All devices for participating Maine public schools, regardless of the grade level served, will be purchased by the

Department of Education under the resulting Agreement. For students or staff that do not meet the eligibility requirements, the Department will invoice the schools directly for reimbursement to the Department. Therefore, all invoicing and payments for Maine public schools will be done solely with the Department.

While it is expected that all of Maine middle schools and most Maine high schools will participate in the program, schools will do so on an opt-in basis. Every public middle school in the State participated in the first, second, and third MLTI deployment. Additionally, some Maine elementary and private/independent schools elected to participate at local cost. However, some school units may elect not to participate. Other school units may elect for an alternative deployment. It is anticipated that schools that do not opt-in initially would retain the right to opt-in, at a minimum for Year 2 (the 2014-15 school year). Based on the solution proposed by the winning Bidder, the Department will require in May 2013 a formal statement of intent to participate from school units.

5.1.1.1. Maine Alternative Deployments

Maine middle schools may also elect to participate in an alternative one-to-one deployment, using different devices or configurations than that provided by the State-funded solution from the Provider. This alternative deployment could utilize an optional cost schedule for upgrades or enhancement offered by the Provider, or the school unit at its discretion could utilize equipment or services from some other vendor. If a school's alternative deployment satisfies criteria to be established by the Department, the State would provide to that school – for those service components that are susceptible to disaggregation -- funds equal to the component(s) of the State-funded solution. The local school unit would have sole responsibility for any additional costs, beyond the State-funded solution, associated with the alternative deployment.

5.1.2. **Hawaii school participation**

All Hawaii Department of Education public schools are expected to participate in this program. The Hawaii Department of Education consists of approximately 260 unique schools with a total enrollment of approximately 175,000 statewide. The procurement of these devices is expected to be phased over a three-year period, with five new complex areas (districts) added each year. Hawaii estimates it will deploy devices to approximately 60,000 students and staff annually until the third year of implementation, when essentially all staff and students statewide have a device. Procurement will be subject to availability of funds. This phased approach was chosen as opposed to a grade level approach because it honors the commitment to a K-12 construct and powerful K-12 articulation. By allowing Complex Area Superintendents and principals to opt in to the phases we are more likely to have those who are willing and able be early implementers and therefore lead the way to a more successful implementation. Selection of Complexes or Complex areas will be made by the office of the State Superintendent, and will be based on technology readiness, leadership readiness and staff readiness. Please refer to **Appendix E, State Profiles - Hawaii** for technical readiness details.

5.1.3. **Vermont school participation**

Presently, Vermont does not have statutory guidance for participation in this program. As such, it expects participation from schools serving students across all grade levels, K-12, based upon local decision-making.

5.2. Opt-in

Participating states will coordinate with the Provider and its local schools to determine participation. Schools will be required to opt-in to the program by agreeing to terms and conditions between the state and the local school system. These terms and conditions will vary from state to state. The Provider is expected to assist participating states with the dissemination of information about the solution in order to ensure that local schools make informed decisions.

5.2.1. Maine Opt-in

It is anticipated that the Maine Department of Education will require a formal opt-in from its schools no later than May of 2013. The timing of the opt-in may vary based upon the Bidder's solution.

5.2.2. Hawaii Opt-in

It is anticipated that Hawaii schools will participate on an opt-in basis. Because Hawaii schools will rely on state funds to be able to participate in this program, it is expected that State leadership will ultimately determine schools, complex, or complex area participation in the program.

5.2.3. Vermont Opt-in

It is anticipated that Vermont schools will participate on an opt-in basis. Because Vermont schools will rely on local funds to be able to participate in this program, it is expected that not all local schools or districts will elect to participate in the program.

5.3. Full Deployment

All participating schools that opt in initially are required to be fully deployed for the start of the 2013-2014 school year. Schools that opt in at a later date would be deployed as soon as practicable.

5.3.1. Maine Deployment

Bidders should note that some schools in the Aroostook County region of Maine begin school in early August. The Department will coordinate with the Provider to prioritize deployment and installations based upon the various Maine school system calendars.

5.3.2. Hawaii Deployment

Bidders should note that some schools Hawaii begin earlier in the year than most other states (July 29th). Training would theoretically need to be done in June/early July.

5.3.3. Vermont Deployment

Ideally, delivery of devices would take place in May or June of 2013 in anticipation of the Fall semester. Training would be done in June/July to prepare for Fall semester.

6. Personal Computing Device & Software Applications

A portable, wireless computing device will be provided for each participating user in participating schools. All devices will be deployed in the first year of the program. Participating users will be defined by each State or local school.

6.1.1. Maine Participating Users

All students in participating middle schools (7th and 8th grade) will participate in the program. Additionally, all students in participating high schools (9th through 12th grade) will participate in the program. If a school elects to participate for other grade levels, all students in that grade level will participate in the program. Each teacher, librarian, school administrator, and technical coordinator in a participating 7-12 school will participate in this program. Personnel in these schools not covered by the State's funding may optionally participate if the local school elects to pay the per seat cost for those personnel.

6.1.2. Hawaii Participating Users

All grade levels will be eligible to participate in the program. Schools not centrally funded for program by State's may, subject to state approval, optionally participate if the local school elects to pay the per seat cost for those personnel and students.

6.1.3. Vermont Participating Users

All grade levels will be eligible to participate in the program. All students may optionally participate if the local school elects to pay the per seat cost for those personnel and students.

6.2. Device Quantities

6.2.1. Teachers and Staff

Participating educators and school personnel (which may include teachers, librarians, school administrators, technical coordinators, and more) will be equipped with a portable computing device (hereafter referred to as the “teacher’s” device). The teacher’s device may be the same as the student’s device or may be a more fully capable device. Either way, the teacher’s device must satisfy educational and practical functional goals in the classroom and for lesson preparation.

6.2.1.1. Maine Teachers and Staff

Classroom teachers in all content areas, special education teachers, literacy specialists, librarians and itinerant teachers will all receive a computing device. In addition, school administrators including principals, assistant principals, special education directors, technology directors, technology integrators, and others will be equipped with a portable teacher’s device. The Department will work with schools to determine the exact number of eligible staff for each school. In 2009, the Department’s initial count for total eligible staff for grades 7-12 was 11,869.

6.2.1.2. Hawaii Teachers and Staff

At a minimum, classroom teachers in Math and Language content areas, special education teachers, literacy specialists, librarians and itinerant teachers will all receive a computing device. Hawaii will ensure that all classroom teachers will eventually have a device. The Hawaii Department will work with schools to determine the exact number of eligible staff for each school.

6.2.1.3. Vermont Teachers and Staff

Because of the local nature of this opportunity, schools will determine the teachers and staff eligible to receive a portable device. The recommendation from the Vermont Department of Education will include a device for each teacher involved in the building based 1:1 program with additional devices available for staff in other content areas that are impacted by the 1:1 computing program.

6.3. Students

Each student in participating schools will be equipped with at least one portable computing device. The educational requirement is a minimum 1:1 ratio – at least one device per student.

6.3.1. Maine Students

The estimated number of Maine students is summarized in Table A below. This data is based on the spring reported enrollments (April 2012) for Maine public schools. For more detailed information, please see:

<http://www.maine.gov/education/enroll/attending/statespringpub.htm>

The anticipated program commences in August 2013 with the Classes of 2014 through 2019. The actual student enrollment numbers could be higher or lower.

The count could be lower if some eligible schools elect not to participate. As described in **Section 5.1.1.1 Alternate Deployments**, schools may also elect to participate in an alternative 1-to-1 deployment using different devices or configurations than that provided by the State-funded solution described by the Bidder.

High School Graduating Class Year	Grade in 2013-14 School Year	Estimated Student Count
Class of 2014	12	14,276
Class of 2015	11	14,494
Class of 2016	10	14,366
Class of 2017	9	14,074
Class of 2018	8	13,852
Class of 2019	7	13,698
Class of 2020	6	13,402
Class of 2021	5	13,309
Class of 2022	4	13,569
Class of 2023	3	13,688
Class of 2024	2	13,586

TABLE A – Maine Student Count Estimates

6.3.2. Hawaii Students

The estimated number of Hawaii students is summarized in Table B below. This data is based on the statewide projected enrollment for school year 2013-14.

Hawaii Enrollment Projections 2013-14				
Category	High School Graduating Year	Grade	Total	
Regular Education	Class of 2026	K	15,349	
	Class of 2025	1	14,303	
	Class of 2024	2	13,778	
	Class of 2023	3	13,336	
	Class of 2022	4	12,766	
	Class of 2021	5	12,502	
	Class of 2020	6	11,527	
	Class of 2019	7	10,874	
	Class of 2018	8	11,040	
	Class of 2017	9	12,194	
	Class of 2016	10	11,275	
	Class of 2015	11	10,549	
	Class of 2014	12	9,059	
		Subtotal		158,552
	Special Education		K-6	8,092
		7-8	2,971	
		9-12	6,119	
		Subtotal		17,182
GRAND TOTAL			175,734	

TABLE B – Hawaii Student Count Estimates

6.3.3. Vermont Students

The estimated number of Vermont students is summarized in Table C below. This data is based on a statewide projected enrollment for school year 2013-14.

High School Graduating Class Year	Grade in 2013-14 School Year	Estimated Student Count
Class of 2014	12	6,883
Class of 2015	11	6,954
Class of 2016	10	6,448
Class of 2017	9	6,344
Class of 2018	8	6,250
Class of 2019	7	6,258
Class of 2020	6	6,138
Class of 2021	5	6,134
Class of 2022	4	6,164

Class of 2023	3	6,221
Class of 2024	2	6,043

TABLE C – Vermont Student Count Estimates

6.4. Students with Disabilities

All students will receive a device except students who are determined by an individual education program (IEP) team to be unable to benefit from learning technology equipment. Ideally, all learners should benefit from the Bidder’s solution. The school unit will provide additional adaptations, software, or peripheral equipment from the Provider or another vendor if necessary.

6.5. Device Functional Requirements

Bidders must complete the **Portable Computing Device Specifications Summary** included in **Appendix G – Additional Forms**. If more than one portable computing device is included in the solution, Bidders must complete one Summary Sheet per device.

6.5.1. Assessment Compatibility

The solution must meet, and ideally exceed the Hardware Purchasing Guidelines published by the Smarter Balanced Assessment Consortia (SBAC) and the Partnership for Assessment of Readiness for College and Careers (PARCC). These published guidelines may be found at:

<http://www.smarterbalanced.org/smarter-balanced-assessments/technology/>
<http://www.parcconline.org/technology>

6.5.1.1. Maine

Many Maine schools use the Northwest Evaluation Association (NWEA) formative assessment tool. It is desirable that the solution is compatible with the NWEA tool.

6.5.1.2. Hawaii

Many Hawaii schools use the Global Scholar Pinnacle Instruction Learning Management System as a formative assessment tool. It is desirable that the solution is compatible with this tool.

6.5.2. Device Connectivity

The device will be able to connect to the WiFi network and also be able to also access the school’s pre-existing local network, and the Internet, wirelessly (via WiFi) within the school, home or other area outside the school. The Bidder must describe the device’s native connectivity capacity as well as connectivity options including those that may require additional attachments and whether these attachments are a part of the proposed solution. The Bidder must describe its wireless network connectivity solution in detail in **Section 7, Network Connectivity and Infrastructure**.

6.5.3. Device Portability

The device will be able to be carried conveniently and easily by students and teachers - either via a provided carrying case or some built-in carrying ability. The portable computing device shall be lightweight. While the Department will not mandate a specific maximum weight, as a

guideline the Department would prefer to see a device and all its components that weighs six pounds or less. In general, the lighter the better.

6.5.4. Device Durability

The portable computing device must be highly durable and withstand reasonable and normal daily use by middle and high school students. It is desirable that the device shall be durable enough to withstand occasional mishaps, and resist hazards such as dust, dirt and spills – and still function. It shall also have parts that cannot be easily removed, tampered with, or broken.

In order to provide necessary protection for the device during normal transport, the Bidder may include an appropriate carry case. Ideally the case would allow schools to easily label cases for easy identification (i.e. “All black bags look alike”). Included cases shall be included in the annual per seat cost and shall be fully covered by the Provider’s support and warranty program as described in **Section 9, Warranty, Insurance, Damage and Theft**.

6.5.5. Device Power

The portable computing device will have a battery capacity that will allow the device to be used throughout a standard school day without being recharged. The battery will need to have the ability to be recharged by the student at home or elsewhere or through a type of multi-unit re-charger at the school, and will need to be able to be recharged overnight or sooner. The device shall also be able to be powered by a standard electrical plug.

The Bidder must specify the recharge time, electrical load, battery life, and other relevant electrical specifications of its solution. Although each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution based on specifications supplied by the Provider — including electrical wiring needs — the bid solution should be designed to minimize necessary costs of building preparation in terms of adding electrical receptacles or additional power to classrooms. The proposed solution should respect the limited electrical power capacity within the school and classroom environment.

The Department recognizes that while the type of usage can impact battery life, that in general battery life is often most impacted by the display, motors, and network radios. The Bidder must describe its strategy to ensure sufficient battery life, and how its solution takes into account common battery intensive tasks.

Battery replacements and proper recycling of spent batteries will be done within the per seat cost and in such a way that does not impact teaching and learning. The Bidder must describe its plan for providing replacement batteries and for recycling spent batteries.

6.5.6. Keyboard

The portable computing device will have an appropriately sized keyboard *function* that facilitates text input, integrated into the device, into the carrying case, or some other effective method. While an ideal solution would include a standard-size keyboard, it is recognized that a smaller size may be necessary. Nonetheless, the Department seeks a keyboard interface of sufficient size and ease of use for students and teachers to be able to do their work effectively and efficiently without discomfort.

6.5.7. Screen

The portable computing device will have a color screen of sufficient size with good resolution. While the Department will not mandate a screen size, the solution should take into account ease of use and functionality (as described below in **Section 6.6, Software and Function** as well as any requirements defined in **Section 6.5.1, Assessment Compatibility**). In general, the higher the resolution the better. The Provider should keep in mind portability, size, and weight.

6.5.8. Mouse/Pointing Function

The portable computing device will have a mouse/pointing capability that provides pointing functions and is easy to use. It is preferable for pointing functions to be integrated into the device (e.g. trackpad, track point, touch screen, etc.) and not rely on a separate attachment.

6.5.9. Audio

The portable computing device will have built-in audio capabilities, including speakers for personal use and an audio-out capability that accepts standard 1/8" audio connectors for headphones or speakers. It should also include an integrated microphone and audio-in capacity.

6.5.10. Camera

The portable computing device will have an integrated, built-in camera capable of capturing/recording images and video.

6.5.11. Size

The portable computing device will fit on school desks and be easily carried by an adolescent-aged student.

6.5.12. Ports

The device should ideally have additional ports/capacity for attachment of external devices. In addition, the device will be capable of connecting to standard video output devices such as digital projectors or monitors. It is desirable that the device will be compatible with common interactive white board systems.

6.5.13. Boot Time/Wake Time

A device that starts and is ready for use quickly is highly desirable. The Bidder must specify the boot and wake time for its device.

6.5.14. Upgrades

Upgrades to the portable computing device, if proposed, during the term of the contract will be done within the per seat cost at a time that does not impact teaching and learning.

6.5.15. Ergonomics

The system and design will be one which can be used efficiently and comfortably with a minimum amount of fatigue or adverse physical effects. The Bidder must specify what ergonomic standards or guidelines it has adopted in its proposed design.

6.5.16. Accessibility

It is the intent to purchase hardware and software that provides the highest degree of accessibility to all users, including users who may have an impairment that interferes with the use of the device. The solution will have the capacity to interface with peripherals, software and assistive technologies used by students, teachers and others with visual, hearing, mobility, communication and/or cognitive impairments and will conform to the ISPB-approved Computer Application Program Accessibility Standard which can be found at:

http://www.maine.gov/oit/accessibility/software_policy.html

There must not be a need for complex and expensive adaptation and/or specialized design later to meet the needs of users. The design should communicate necessary information in as many different forms as possible (e.g., verbal, auditory, tactile, pictorial) to accommodate needs. It should be of appropriate size and should be operable in at least one mode for those with limited hand, arm, leg or trunk strength, flexibility and range of motion. Space should be provided for approach, reach, manipulation and use regardless of a user's body size, posture or mobility.

The Bidder must describe to what extent its proposed solution satisfies this requirement. This should include a description of whether and how the device provides the functionality and/or the capability to interface with peripherals, software and assistive technologies for visual, hearing, mobility, communication and cognitive impairments.

6.5.17. Disposal

The Provider will ensure that no devices or materials supplied by it are disposed of improperly. The Provider will ensure that associated hazardous constituents are kept out of solid waste and wastewater. Examples of possible hazardous constituents are: printed circuit boards, lithium batteries, and mercury-containing lamps for screen illumination. It is desirable that the device is highly recyclable. The Department recognizes that eventually, the devices will be retired from use and wants to minimize the environmental impact of the equipment deployed as part of the solution.

6.6. Software and Function

6.6.1. Applications

The MLTI has adopted and promoted two models to guide teacher practice and the integration of technology into instruction and learning. These models are *Technological, Pedagogical, Content Knowledge* (TPCK) by Drs. Punya Mishra and Matthew Koehler (<http://www.tpck.org>) and *Substitution, Augmentation, Modification, Redefinition* (SAMR) by Dr. Ruben Puentedura (<http://www.mlti.org/samr> and <http://www.hippasus.com/rrpweblog/>). Bidders must describe the tools and functionalities included in the solution and their anticipated use in light of these models.

The solution must, at a minimum, provide the students and teachers with software to facilitate the following functions to support educational needs:

- 6.6.1.1. Writing (e.g., word processing, journaling, communications, editing and revision, sharing, etc.)
- 6.6.1.2. Reading (e.g., annotating, excerpting, sharing, determining complexity, etc.)
- 6.6.1.3. Data analysis and modeling (e.g., spreadsheet, graphing and charting, GIS, predict

- and explain, etc.)
- 6.6.1.4. Computational thinking (e.g., analyzing and organizing data, data modeling and simulations, programming, etc.)
 - 6.6.1.5. Presentations and publishing (e.g., slide shows, web authoring, speaking/narrating text, providing feedback, etc.)
 - 6.6.1.6. Multimedia creation (e.g., creation and manipulation of digital images, audio, video, etc.)
 - 6.6.1.7. Information management (e.g., database, concept mapping, etc.)
 - 6.6.1.8. Research (e.g., Internet browsing with the ability to access and utilize common multimedia and interactive content like streaming audio/video, javascripting, java applets, HTML5, Flash, etc.).
 - 6.6.1.9. Communication and collaboration (e.g. sharing data, asynchronous and synchronous text-based communications, video/audio chat, etc.)

The Bidder must describe the applications included in its solution including how it envisions those tools supporting the functional needs described in this section.

6.6.2. Multi-State Standards

6.6.2.1. Common Core State Standards for English Language Arts

Forty-six States have adopted the *Common Core State Standards for English Language Arts*. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and the learning of the outcomes described by the *Common Core State Standards for English Language Arts* including the 4 component sections: reading, writing, speaking and listening, and language. Bidders should pay particular attention how the solution provides tools and functionality to support text complexity, informational text, and text types as described in the CCSS for ELA (<http://www.maine.gov/education/lres/ela/standards.html>).

6.6.2.2. Common Core State Standards for Mathematics

Forty-six States have adopted the *Common Core State Standards for Mathematics*. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and learning of the outcomes described by the *Common Core State Standards for Mathematics* with a particular emphasis on the eight "Standards for Mathematical Practice" as detailed in *Common Core State Standards for Mathematics* (<http://maine.gov/education/lres/math/standards.html#ccss-math>).

Additionally, the solution must include the capacity to format and display mathematical formulas, equations, and symbols. Entry and editing of mathematical formulas, equations, and symbols should be easy and allow for teachers and students to create documents and media that aid with instruction and learning.

6.6.2.3. Next Generation Science Standards

Twenty-six states are working together on the development of the *Next Generation Science Standards*. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning described by the vision of science education in "A Framework for K-12 Science Education" inclusive of the Scientific and Engineering Practices, and Cross Cutting Concepts and reflected in the first draft version of the *Next Generation Science Standards* (<http://maine.gov/doe/nextscience/index.html>).

6.6.3. State Specific Standards

6.6.3.1. Maine

While the Provider is not required to provide educational content, each Bidder must identify all of its application software and describe how it will support educational use and how it will align tools and resources with Maine's *Learning Results* including the *Common Core State Standards*. In addition, the Department anticipates that upon completion, the *Next Generation Science Standards* will be adopted. More information about Maine's adopted academic standards and its involvement with *Next Generation Science Standards* development may be found here:

- <http://maine.gov/doe/teaching/standards.html>

6.6.3.1.1. *Career and Education Development*

Career and education development helps all students gain the knowledge, skills, and behaviors to interact with others, set goals, and make decisions related to career, college, and citizenship. These are the skills and knowledge that underlie the *Common Core State Standards* and all content areas and are also known as "College and Career Readiness". Bidders should focus on tools and functionalities that assist students to create and update personal profiles and interest inventories, do career research, make college and career decisions, and set goals and solve problems.

6.6.3.1.2. *Career and Technical Education*

The Career and Technical Education (CTE) centers provide over 60 programs of study, many of which require specialized equipment and tools that are beyond the scope of this RFP. For more information about the programs offered in Maine CTE centers, see:

- <http://www.maine.gov/education/it/>

Bidders must describe how its solution will support effective teaching and learning in the CTE centers in Maine in general. If specific functions and tools included in the solution have specific application for a program of study offered in Maine CTE centers, the Bidder should describe those specific uses within the context of that program of study.

6.6.3.1.3. *English Language Arts*

Maine has adopted the *Common Core State Standards for English Language Arts* (**Section 6.6.2.1 Common Core State Standards for English Language Arts**).

6.6.3.1.4. *Health and Physical Education*

Maine updated the *Learning Results* for Health and Physical Education in 2007. The updates included a focus on leveraging the learning goals embedded in the standards "to enhance health". While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and the learning of the outcomes described by the *Learning Results* for Health and Physical Education.

6.6.3.1.5. *Mathematics*

Maine has adopted the *Common Core State Standards for Mathematics* (**Section 6.6.2.2 Common Core State Standards for Mathematics**).

6.6.3.1.6. *Science and Technology*

Maine is a lead state in the development of the *Next Generation Science Standards*, and it anticipates that these standards will be adopted upon completion (**Section 6.6.2.3 *Next Generation Science Standards***).

6.6.3.1.7. *Social Studies*

Social studies education involves the exploration of the social sciences and humanities, including geography, civics and government, economics, and history in order to develop responsible, informed, and engaged citizens. Effective teaching and learning in social studies rely heavily on the usage of multiple primary and secondary sources and research. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and learning of the outcomes described by Maine's *Learning Results* for Social Studies with a particular emphasis on fostering civic, global, historical, geographic, and economic literacy and the development of critical thinking and problem-solving skills; investigation, research and reading skills; oral and written communication; presentation skills; and collaboration skills.

6.6.3.1.8. *Visual and Performing Arts*

The Visual and Performing Arts encompasses many different forms of artistic expression, and students and teachers need to be able to both create, edit/manipulate, capture, and view these different forms of artistic expression. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning including:

- The capacity to capture live performance for assessment (both self-assessment and assessment by others) and as an artifact of the performance itself -- which may be later used for any number of activities -- assessment, sharing, archiving, remixing into new expressions, etc.
- The capacity to create and manipulate audio, video, and visual media as a mode of creativity and expression.
- The capacity to view/hear artistic work for the purposes of analysis, comparison, evaluation, etc.

6.6.3.1.9. *World Languages*

Maine has a goal to graduate all students proficient in a world language. This includes the capacity to communicate both orally and in writing. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning of a world language. This includes tools and functionalities that support both productive (speaking, writing, showing) and receptive (listening, reading, and viewing) modes of communication. Further, the Bidder must describe how its solution's tools and functionalities support different form of communication:

- Interpersonal (direct communication between individuals)
- Interpretive (individual receives communication by listening, seeing, or reading), and
- Presentational (individual delivers communication orally, written, or some recorded form when the receiver is not expected to provide direct feedback including a one to many style of communication)

In addition, proficiency in a world language requires cultural knowledge as it relates to differences in how communication is produced and received. Bidders must describe how its solution supports the teaching and learning of cultural knowledge.

6.6.3.2. Hawaii

While the Provider is not required to provide educational content, each Bidder must identify all of its application software and describe how it will support educational use and how it will align tools and resources with Hawaii's adopted academic standards – the *Common Core State Standards for English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects*; the *Common Core State Standards for Mathematics*; and HCPS III for CTE, fine arts, physical education, and world languages. Hawaii also anticipates adopting the Next Generation Science Standards, pending their completion in 2013. More information about Hawaii's adopted academic standards may be found here:

- <http://standardstoolkit.k12.hi.us/index.html>

6.6.4. **Network and Device Connectivity**

The device must be able to connect to network file servers using common networking protocols (e.g., smb, afp, nfs, ftp, etc.). The device must be able to utilize common peripherals for input and output (e.g., networked and stand-alone printers, digital cameras, digital video cameras, scanners, etc).

6.6.5. **Distance and Online Learning**

The portable computing device must be able support common learning management systems (i.e. Moodle, Blackboard, Studywiz, etc.) to facilitate distance and online learning. In addition, the portable computing device must be compatible with common online content providers (i.e. oercommons.org, cnx.org, khanacademy.org, ck12.org, iTunes U, etc.).

6.6.6. **Student Information Systems**

The portable computing device must be compatible with common student information systems in use in schools and states.

6.6.6.1. Maine Student Information Systems (SIS)

The Maine Department of Education utilizes Infinite Campus State Edition for management reporting purposes. In addition, Maine schools primarily utilize Infinite Campus and PowerSchool for local management and reporting purposes. Bidder's solutions must be compatible with Infinite Campus and PowerSchool systems, and Bidder's will be required to work with the Department to maintain compatibility as both the solution and the SIS systems evolve.

6.6.7. **Stand-alone**

The portable computing device must be able to function in a stand-alone mode sufficient to enable the user to perform basic functions (e.g., writing, data analysis, multimedia, information management) without requiring network access. The Bidder must describe the differences, if any, in the function of the device when it is network-connected versus in stand-alone mode. Bidders should consider that many families do not have broadband Internet access at home.

6.6.8. Cloud Requirements

The Bidder must include a recommended minimum school Internet bandwidth capacity for its solution. Recommended bandwidth should be expressed in megabits per second for each 100 users per school. This recommendation should assume that the entire school is participating in the program, and therefore all students may be leveraging the portable digital device. The Department recognizes that some general activities not specific to the solution can drive significant bandwidth usage, and recognizes that schools will need to install bandwidth necessary to support the density of users associated with a 1:1 program. However, if the Bidder's solution relies on cloud-based tools and functionality, the Department needs to understand what impact, if any, the introduction of the solution will have on school bandwidth needs. Bidders should design a solution that respects the availability of bandwidth in schools.

6.6.8.1. Maine School and Library Network

For more information about available bandwidth in Maine schools, please see **Appendix E, State Profiles - Maine**.

6.6.9. Software Updating

The Provider should describe how its solution will provide the capacity to update the portable computing devices. This includes incremental and major updates that may be required after the portable computing devices have been issued to students. Increasingly, schools are issuing the portable computing devices to students, and the students are retaining the device even during long vacations including summer break. The Provider should describe whether or not it will be necessary for schools to collect the portable computing devices to apply major updates efficiently. The portable computing devices will be able to be updated from a central location via a "push" method or "over the air" method rather than each device separately and manually for incremental updates.

Ideally, major updates should not require users to perform a complete back and restore of user data and configurations in order to apply the update. While the Department recognizes that performing a backup before a major update is "best practice", it is desirable that the solution allow for "upgrades" whenever possible as opposed to "reformat and reinstall".

6.6.10. Software Restore

The portable computing device will be able to be restored easily and in a reasonable timeframe. The Provider should take into account the range of sizes of schools and account for reasonable restore processes for both large and small school deployments. The Provider is responsible for providing any associated software, hardware, or networking equipment necessary to restore the device to a base state. In addition, the restore process should allow for easy additions to the base software load as schools may desire the additional software titles or adjustments to basic settings. Ideally, a device should be able to be restored, including local additions, easily so that upon completion of the process, no further manual installations or configuration changes are necessary.

6.6.11. Operating System and Software

The Provider must include current and upgraded versions of the core operating system software and all other software included as a part of the Provider's solution through the term of the agreement in order to maintain usability with upgrades and enhancements to surrounding systems and peripherals. The Bidder must provide a device which will not require hardware

upgrades in order to reasonably keep up with possible future software upgrades (e.g., initial delivery should include adequate memory, storage, and processing power for typical upgrade cycles given the term of the agreement) or the Provider should include a description of how it plans to upgrade the equipment through the life of the project to maintain adequate functionality and minimize disruption and the availability of the solution.

6.7. Device Options

The Department wishes to enable schools, who so desire, to enhance or complement the basic solution with additional, optional software and hardware at their own local costs. Each Bidder should describe what it can offer, separately priced, to enhance schools' effective use of the basic solution—strictly as an option for local school units to consider should the Bidder become the awarded Provider. Schools may also opt to acquire such offerings independently if they are able to obtain better pricing from other parties. The Bidder shall include only those products, models and features that it will support if configured and connected to the proposed solution.

The Bidder should specify and describe fully here the features, functions and advantages of such offerings. Provide the price quote on **Appendix B, Cost Proposal Form, Table 4** for each item, including all cost options (please use consistent item numbers in this section and on **Appendix B, Cost Proposal Form, Table 4**). Specify whether the price includes shipping, installation and related charges; if not, specify what additional charges would be added. Ensure that the total cost is represented.

The Bidder is to provide the manufacturer name, model, short description, warranty, unit and volume prices. Also, include any additional cables, connectors and adapters required. If any software upgrades or additional features are required, so state. These devices, cables, connectors and adapters must be available through the Bidder's corporation for delivery to the individual sites. The value of such offerings will not be considered in the evaluation score of the proposal.

6.7.1. Optional Software

The vendor may provide students and teachers access to software and applications such as educational content, web-page development software, student information, assessment tools, data management, etc. Specify such offerings here.

6.7.1.1. Maine Proficiency- and Standards-based Education Models

Maine is a leading state in the implementation of using national standards and industry recognized credentialing exams as assessments. The national and state certified standards currently in use can be found at http://www.maine.gov/education/it/resource_directory.shtml. These standards are our CTE's programs' benchmarks. Twenty-four Maine school districts have formed the Maine Cohort for Customized Learning (<http://mainecustomizedlearning.org>) which seeks to support the implementation of performance-based learner-centered educational systems. Further, Maine recently enacted LD1422, "An Act to Prepare Maine People for the Future Economy" (http://www.mainelegislature.org/legis/bills/display_ps.asp?LD=1422&snum=125). It calls for the implementation of proficiency-based diplomas beginning in January, 2017.

The Department is interested in solutions that will support the implementation of a performance/proficiency-based, standards-based system of education. This system would allow students and teachers to track, measure and produce reports based on student-centered project completions and instructor-led activities. The system would need to be able to track

data at multiple levels (duty, task, indicator), provide progress indicators at different intervals and be cross-walked between Maine's *Learning Results* including the *Common Core State Standards* and anticipated *Next Generation Science Standards*, and Maine selected CTE national and state certified Standards and Assessments. The system should allow for data integration with assessment systems including the Smarter Balanced Assessment Consortia assessment system, Northwest Education Assessment tool, and others. In addition, ideally the system would provide alignment between student learning needs based on performance data and measures and applicable content and resources that may be available both at cost or for free (i.e. Open Educational Resources).

6.7.2. Optional Hardware

The vendor may provide students and teachers access to other hardware components, such as alternate portable computing devices, printers, servers, wireless access points, batteries, power cords, projectors, assistive devices, or other optional hardware devices. Specify such offerings here.

6.8. Pricing Schedules for Additional Educational Groups

The Department of Education wishes to extend the opportunity to purchase, at their own expense, the Bidder's solution, at the same or nearly the same cost to other educational providers such as public and private K12 schools, teacher preparation programs, home-schooled students, or public libraries. This will allow school systems to extend the program beyond the Department supported program. The Bidder should provide a pricing schedule to be utilized if such groups or individuals are authorized by the Department and if they wish to purchase the device, software and support solution provided under the agreement with the Department.

6.8.1. Maine K-6 schools

Maine schools serving grades K-6 are increasingly deploying 1:1 computing programs similar to the MLTI 7-12 program. Historically, the Department has extended the opportunity to purchase the MLTI solution to K-6 schools, at their expense, but through the Department's Agreement (see **Section 5 Participation by Schools**). The Department is interested in continuing this opportunity for Maine's K-6 schools and also recognizes that other States that may participate in this program are seeking to support these grade-levels. Additionally, the Department recognizes that the device, tools and functionality described in **Sections 6.5 and 6.6** may or may not be applicable to younger students. The Department wishes to make available to K-6 schools a solution that mimics the solution as described in this RFP for grades 7-12 in as many places as possible but that may vary to take into account developmental differences and be more age-appropriate.

Ideally, aspects of the solution that are systemic and not specific to the individual student or teacher would be identical or nearly identical such as **Section 7 through Section 12**. Bidders should recognize that many Maine schools are K-8 or even K-12. Therefore, differences in service levels or service protocols may cause confusion. Bidders must describe how its solution would be different for schools serving grades K-6. For example, the solution may leverage the same device but with a different collection of software tools; the solution may leverage a completely different device and therefore different tools; or the solution may be identical in all aspects. Bidders should consider whether multiple variations are necessary to best serve the developmental needs of students ranging from kindergarten to grade 6. Bidders must also list and acknowledge which aspects of their bid proposal would be identical for the K-6 solution as compared to its proposed 7-12 solution.

6.8.2. Maine Pre-service Teachers and Higher Education

The majority of Maine's teachers graduate from Maine public and private higher education institutions. In order to help prepare these teachers to teach in a MLTI school, the Department believes that these pre-service teachers should have access to and should learn to leverage the MLTI solution. Integration of the MLTI solution and the changes in classroom practices empowered by the solution into the higher education curricula is critical to the development of new teachers as well as the innovation of classroom practices. Additionally, in-service teachers continue to complete courses at Maine higher education institutions to maintain their teacher certifications, and the Department believes that a deeper integration of the MLTI solution into these institutions will better serve in-service teachers as well. The Department recognizes that there are significant differences in how higher education institutions provide infrastructure and support, and how higher education students typically procure personal computing devices. Bidders must describe its plan to allow higher education institution teacher preparation programs in Maine to participate in the MLTI and provide devices and necessary services to the institution and pre-service teachers. Bidders must identify which aspects, if any, of its solution would not be available to Maine higher education institutions and pre-service teacher candidates. In addition, Bidders must propose how it intends to structure any financial arrangements including potential leases, invoicing, etc.

7. Network Connectivity and Infrastructure

The wireless network infrastructure shall connect from the portable computing devices at one end to the school's Internet gateway at the other end. Between the two ends, the Provider's solution must include switches and/or controllers as needed, the placement of wireless access points, server capacity for applications/files (as appropriate), and any other components necessary to complete the solution. In order to minimize the necessity to perform local electrical upgrades, Power-over-Ethernet is preferred. A Provider will be responsible for the design, installation, configuration, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement. Bidders must complete the **Wireless Local Area Network (WLAN) Specifications Summary** included in **Appendix G – Additional Forms**.

7.1. Building Readiness

Each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution. The local school unit shall address structural issues, construction/renovation, abatement, and electrical wiring needs, based on specifications supplied by the Provider. The bid solution should be designed to minimize necessary costs of building preparation.

7.1.1. Maine - Existing MLTI Wireless Networks

Existing MLTI network devices (wireless access points, switches, controllers), and infrastructure (cabling, patch panels) may be utilized by the Provider's solution at the Provider's choice. If a Provider's solution includes existing MLTI network devices or infrastructure, the Provider must agree to provide full warranty/performance coverage as it would with newly installed devices or infrastructure. The in-school infrastructure shall be accessible wirelessly and remotely. For more information about the existing MLTI wireless infrastructure, please see **Appendix E, State Profiles - Maine**.

7.1.2. Hawaii - Existing Wireless Networks

Hawaii has a separate plan for wireless networks and does not anticipate requiring any services for this. Deployment of devices will be decided based on the readiness level of the wireless infrastructure inside of schools. Please see **Appendix E, State Profiles - Hawaii** for more details on Hawaii's infrastructure readiness.

7.2. Local Network and Access

These network access services will include as a minimum:

7.2.1. Wireless Coverage

The coverage must ensure that all necessary instructional and administrative areas can function wirelessly. Students and teachers will remain connected to the school's wireless LAN as they move around within the various rooms and areas. The Provider will ensure access to the school's wireless network from all instructional areas as well as core administrative areas including academic classrooms for all content areas, frequently used study areas, media centers, assembly spaces, library, performance theater, and administrative offices. To the extent necessary, a site survey should be performed to optimize each school's coverage area. A school may expand the coverage area at its own expense using the Provider's optional equipment offering or another available vendor.

7.2.2. Wireless Access

Each participating school will be provided with a wireless connection. The Provider will be responsible for deploying switches and/or controllers, sized for the school's needs, that connects the buildings router and wireless access points. The portable computing devices will access the wireless LAN including network, switch, servers, access points, and associated hardware to provide a robust network environment for the student and teacher devices. This includes access from the school environment via the wireless network and any provided servers and the services it provides, including access to shared applications and files. Any proposed servers the Bidder may propose should include a description of where the servers will be located.

The Provider is responsible for all associated costs and services necessary to incorporate any proposed servers into the Provider's solution. Additional access points, wiring, electrical and equipment (if necessary) will also be provided as a local school option. Each Bidder must describe its solution's capabilities as well as its limitations (e.g., interference susceptibility, distance, spatial streams and object penetration), including what wireless industry standards (e.g., 802.11g, 802.11n, 802.11ac, etc.) are employed in the solution.

7.2.3. Wireless Bandwidth

For the wireless solution to be effective, sufficient and necessary bandwidth must be included. The solution must not only include sufficient aggregate bandwidth but must also be capable of being customized for varying needs within a school. Bidders must describe its strategy for providing sufficient bandwidth in a school environment, including how it intends to support the densities represented by classrooms of students, and the roaming nature of students (i.e. students change locations throughout the day). Each Bidder must specify and describe the capability and flexibility of its solution. The Bidder's solution should recognize that devices in addition to those provided through the Bidder's solution (e.g. smart phones, wireless printers, other computing devices) will also connect to the wireless network. Bidders will address how its solution provides

adequate throughput (i.e. MIMO, dynamic frequency selection (DFS), dynamic channel allocation (DCA), spatial streams, etc.) to the solution in a mixed (i.e. 802.11b, 802.11g, 802.11n, 802.11a, 802.11ac, etc.) environment. It is expected that the Bidder's solution will represent the majority of wireless clients, but not the only clients.

7.2.3.1. Wireless Usage

The Department anticipates that usage of the network will increase throughout the course of the Agreement as teachers and students integrate the solution into daily curricula and tasks. In addition, the nature of the usage may change over time as Internet technologies evolve and/or usage patterns change. While the Department cannot predict those changes, Bidders must describe how its solution will accommodate known network usage patterns including cloud-based services, video streaming including multi-cast sessions, and other bandwidth intensive tasks. If the Bidder's solution requires Bluetooth connectivity (e.g. keyboard connectivity to a tablet-style device), the Bidder must describe what, if any, impact on the wireless network this would have.

7.2.4. **Internet Access**

Access to the Internet for schools is to be provided via each school's connection to its ISP. The Provider will ensure its solution works with the school's connection, and the Provider will work with each school's ISP to identify appropriate bandwidth and network infrastructure as needed. Internet content filtering, such as required by C.I.P.A. federal law, will be the ISP's and the local school's responsibility, not the Provider's. The Provider shall, to the extent feasible, consult and advise on the availability of cost effective measures for Internet content filtering.

7.2.4.1. Maine Internet Access

Most Maine schools are connected to the Internet through the Maine School and Library Network operated by Networkmaine. At the minimum, MSLN provides a 10Mbps connection to the MSLN with maximum connections of 1Gbps in some locations. Bidders must identify Maine school locations it believes will require an increase in available bandwidth and how much of an increase in order to successfully leverage the proposed solution. For more information about the MSLN, please see **Appendix E, State Profiles - Maine**.

7.2.4.2. Hawaii Internet Access

Most Hawaii schools are connected to the Internet through the Hawaii Department of Education's primary Internet Service gateway at its main administration building in downtown Honolulu. The Hawaii Department of Education provides a 2 gigabit connection to the Internet, which is distributed to schools via a fiber network throughout the state. Parts of this network are under construction and some schools will be using cable modems to access our internal network until construction is complete. Bidders must identify Hawaii school locations it believes will require an increase in available bandwidth and how much of an increase in order to successfully leverage the proposed solution. For more information about the Hawaii Network, please see **Appendix E, State Profiles - Hawaii**.

7.2.4.3. Vermont Internet Access

Most Vermont schools are connected to "high speed" broadband access as defined by their providers. This means the access levels can vary greatly in different portions of the state. Included in **Appendix E, State Profiles - Vermont**, is a summary table of connectivity levels across the state.

7.2.5. Existing School Networks

The solution will provide wireless access for the computing devices to the school's existing network. While school internal networks vary, the network operating systems tend to cluster into Novell, Windows, Macintosh OS X, Unix and Linux. All schools have Ethernet capability.

7.2.6. Server Functional Partitioning

If servers are provided as part of the solution, these servers should allow accommodation for effective and flexible use in school settings. For example, this could include the provision to logically subdivide the server functions so that a server may be used for working with a single student, groups of students within a classroom, a single classroom, groups of classrooms, a single school, groups of schools, to the entire state. In general, server functions should be able to be isolated to individual or any group of users including across classes of users (e.g. students or teachers, 7th graders or 8th graders, etc.) as well as to be able to be used collaboratively across classrooms, schools, and potentially in a statewide fashion. For more information about the existing MLTI network, please see **Appendix E, State Profiles - Maine**.

7.2.7. Growth

Suitable architecture must be provided to allow for growth in the wireless network infrastructure if there is growth due to additional grades in the school utilizing the infrastructure or growth in the population of the school utilizing the infrastructure.

7.2.8. Print Services

The portable computing devices will be able to utilize a school's existing networked printers. The Bidder must list supported printing protocols as well as list common unsupported printing protocols, recognizing that schools tend to leverage technologies for longer timeframes than is commonly found in many other industries.

7.3. Remote Network Access

7.3.1. Portability

The Provider's portable computing device must enable students and teachers to access the Internet from their homes or other locations. The Provider's solution must also be accessible from remote locations, using the personal computing device, via other ISPs - for example, for a student to access the Provider's solution through the family's ISP account. Bidders must describe what methods are supported by the solution.

7.3.2. Other Devices

It is desirable that the Provider's solution, if applicable, also be accessible from remote locations using another computer – for example, for a student to access the servers associated to the Provider's solution through the family's home computer. Bidders must document which aspects of its solution will be available to students and teachers from a device other than the Provider's portable computing device and what, if any, special software is necessary.

8. Performance and Quality

8.1. Uptime

The Provider will ensure, at a minimum, that all functions of its classroom solution are reliable and available to the schools during the Period of Prime Usage. This period is 6:00 AM to 10:00 PM, local time (i.e. Maine local time for Maine or Hawaii local time for Hawaii), Monday-Friday, excluding holidays. During this period, the required uptime is as follows:

PERIOD OF PRIME USAGE	UPTIME PERCENTAGE
7:00 AM to 3:00 PM, local time, Monday-Friday, excluding state holidays	99%
6:00 AM to 7:00 AM and 3:00 PM to 10:00 PM Monday-Friday, excluding state holidays	95%

No scheduled downtime will be allowed for the instructional technology infrastructure except (1) for scheduled preventative maintenance, or (2) with the approval of the local school coordinator for issues affecting only the local school, or (3) with the approval of the Department Agreement Administrator for system-wide outages. This infrastructure includes the wireless LAN, servers, remote access and any other vendor-installed equipment.

8.2. Device Reliability

The solution will provide device reliability and a service level that ensures no student is without a functioning device for more than one (1) school day. This may mean that different support plans need to be in place for different schools.

8.3. Response Time

The solution must provide services to all students and teachers concurrently on the wireless network with quality response time that does not hinder or impede effective instruction and learning in the classroom. This requirement includes the ability for students to browse the Internet, download files and use streaming or multi-cast video without unreasonable delay.

8.4. Business Continuity/Disaster Recovery

The Bidder will describe any program that they provide to cover replacement of the infrastructure in the event of theft or loss through a catastrophic event. A disaster recovery plan will be developed and implemented by the Provider to ensure that the school's infrastructure is restored by the start of next school day at 7 AM.

8.5. Server Failure

If the solution includes servers, then the solution must provide server redundancy or another fallback strategy in the event of server failure. This will provide continued operation of the servers in the event of server hardware or software failure.

8.6. UPS

The Provider must include necessary Uninterruptible Power Supply (UPS) capacity to those parts of the solution where a power loss could cause data loss or corruption, instability or other long-term negative effects on the solution. The solution should be able to be fully-enabled upon restoration of power without reconfiguration or significant intervention. Therefore necessary included servers and

key infrastructure devices such as switches and wireless access points shall have a UPS with capacity to allow for those devices to remain operative in the case of a power outage as necessary. This UPS should allow personnel or automated systems enough time to adequately shut down the server(s) or the infrastructure devices to avoid data loss or corruption.

8.7. Performance Metrics and Reporting

The Provider must track and record operational Performance and Quality metrics necessary to ensure the successful management of the project. Such performance metrics will be reported monthly, by school as necessary, to the Department's Agreement Administrator. The reporting will include such items as incidents, device and system failure types, downtime, repair turnaround times, trends, remediation needed, unresolved issues, recommended improvements, other factors necessary to ensure a successful project. Bidders should recommend metrics for consideration by the Department.

9. Functional and Asset Security

9.1. Wireless Security

The solution must protect against eavesdropping and unauthorized access. The solution may include encryption or other techniques to provide this assurance which the local school may turn on or off as local policy indicates. The Bidder must describe how its proposed solution will provide such protections.

9.2. Authorization Control

Security must allow access to authorized users only – to only those resources, files, applications, and services that they are authorized to use. Security will be definable by an administrator both on an individual user basis and by class of user (teachers, students, parents, administrators, etc.). Identification of a user must be unique to each individual.

Operating systems and the application software must have the ability to be restricted or locked down in an appropriate way that prevents inadvertent or deliberate changes in key settings and, thereby, reduces support requirements.

9.3. Anti-virus Protection

The solution will include reasonable and sufficient anti-virus and malware protection in the device, in any servers and in any other necessary components. Such protection must include timely updates. The Provider will eradicate viruses or related infections that infiltrate the protections provided and will assist schools in returning the devices/system to its normal, stable state. Ideally, the anti-virus protection should not noticeably degrade overall portable computing device performance.

9.4. Backups

In order to protect the solution from data loss or corruption, backup and recovery capabilities are required to permit regular, periodic backup of the storage device(s), logical drives, directories, administrative and configuration data, application software, and user files and to restore all of the above on demand. Backup protection should include any server-based parts of the solution necessary to restore the solution in the event of data loss or corruption. The ability to perform automatic scheduling of backup functions is desired. This should include automatic backup from the portable computing device to a server or some other facility on a daily basis to prevent data loss. The Bidder

must describe the capacity and features of its backup solution, and which data would be recoverable by the user, by a school administrator, or by provider.

9.5. Warranty, Insurance, Damage, and Theft

9.5.1. Warranty

Portable computing devices and included attachments (power supply, carrying case, etc.) will need to be replaced occasionally for a variety of reasons that include defects, normal wear and tear, and accidents. Defective equipment will be replaced or repaired by the Provider at no cost. Consistent with the requirements of this Section of the RFP, the Provider shall warranty against normal wear and tear and ensure the delivery of all services for the term of the agreement. Barring extraordinary circumstances such as are listed in the Force Majeure provision of the *NASPO Standard Terms and Conditions* (see **Appendix D**), the Provider will be responsible to ensure that the devices and other solution equipment are available per the specifications in the Performance and Quality provisions of this RFP. Notwithstanding the cause of any loss, the Provider must provide replacement units in a timely manner and at a reasonable cost for the term of the Agreement.

9.5.2. Insurance and Damage

The Provider shall assume the risk of loss or damage (e.g., fire, flood, theft, accident, etc.) of the equipment provided, except that each local school unit shall be responsible for any replacement or repair costs due to the negligent or intentional act of the school, a teacher, a student. In the case of individual fault, the local school unit will determine as a matter of local policy whether any or all such local costs should be borne by the individual teacher, student, or parent(s). These local costs shall not be counted as part of the direct or indirect bid price defined in **PART V PROPOSAL EVALUATION AND SELECTION**.

As part of its strategy to meet these provisions of this RFP, the Provider may elect to provide a percentage (specify) of overage or surplus stock of equipment within schools or other depot sites, or insure against all other risks of loss or damage through some other means such as commercial insurance. Regardless of the method proposed by the Bidder, the Bidder will describe how it has integrated its protection plan into its overall support plans. All costs associated with the Provider's proposed protection plan shall be counted as part of its bid price and should be incorporated into the Bidder's annual cost proposal defined in **PART V PROPOSAL EVALUATION AND SELECTION**.

9.5.3. No-Fault Protection

The Bidder must provide an optional price schedule for an “enhanced” agreement for no-fault repair and replacement that local school units may purchase at their option and at their own expense from the Provider. The cost of this enhanced, no-fault warranty will not be included in the bid price evaluation as defined in **PART V PROPOSAL EVALUATION AND SELECTION**. Bidders should recognize that this enhanced protection only needs to provide protection against categories of loss or damage that are not covered in **Section 9.5.2. Insurance and Damage**.

9.5.4. Theft Deterrent

The portable computing device provided must incorporate security features to deter theft. This

should include an unavoidable log-in or greeting, or similar process, that identifies the program and/or owner of the device. These security features must be operative regardless of the physical environment in which the portable computing devices are found. The portable computing devices proposed will be used by students and teachers in the classroom, will be transported by students and teachers between school and home, and used in the home as required. Securing the computer by physical means will not be practical as the only security measure. The Provider is encouraged to include external physical markings or property tags of some type that provide a unique, visual appearance to identify the device as part of this program. The Bidder will provide a detailed description of security features on the proposed devices to deter theft.

Each Bidder must describe here how it proposes to satisfy the requirements of this section. The Bidder's description must make clear what it will provide and what it would require of the Department and the schools.

9.5.4.1. Maine Theft/Loss data

Maine's current asset pool contains nearly 75,000 notebook computers, initially deployed to students and teachers in the fall of 2009. As of October 1, 2013, a total of 418 devices have been reported stolen or lost. This represents an average of 0.2% loss per year due to theft or loss.

9.6. Asset Management

The Provider will include an online asset management system. The asset management system should allow the Department and participating schools to view details about all assets (e.g. the portable digital device, network switches, servers, wireless access points, etc.) supplied by the Provider's solution including details such as site location, device assignment, device details and status (e.g. assigned to a user, out for repair, etc). The asset management system should allow querying and reporting capabilities. The asset management system should include necessary security precautions to insure that only authorized personnel access the information contained within the system. In addition, the asset management system should allow for multiple levels of authorized users to allow for, at the minimum, site-, district-, and state-level management. The Bidder must describe all of the data elements that will be included in the online asset management solution, and which data elements would be modifiable for each level of access to provide management functionality while maintaining data security, and which data elements would be dynamic and updated automatically.

9.6.1. Site and District Management

It is not uncommon for school districts to have more than one participating school. Each site should be able to view assets deployed to the site. In addition, schools should be able to utilize the asset manager to assign portable devices to specific students or teachers. Sites and districts should be able to perform management tasks against one, some, or all of its assigned assets. The most common task performed to some or all assets is the assignment of an asset to an individual by entering an ID or other unique identifier into a field reserved for local inventory management. The solution should include a method for a site to import data either directly from the school's student information system or from a simple data file (i.e. .txt, .csv, etc.) in order to update or overwrite site modifiable fields. Inventories will be made available to each site regarding that site's equipment at installation time as part of the installation and acceptance process.

9.6.2. Transfers

It is common for students (and even teachers) to transfer from one participating site to another. The asset management solution must provide a method to easily transfer assignments of assets

from one site to another. This method must include active acknowledgement of receipt of assets at a receiving site by an authorized user because the Department requires that districts accept certain fiscal responsibilities related to those assets it is assigned, based on the asset management data.

9.6.2.1. Maine school transfers

As a matter of practice, when students in grades 7-8 transfer between participating sites, the device follows the student. The same is true for teachers in grades 7-12 since the Department covers the annual seat cost for all 7-8 students and 7-12 teachers. However, for students at participating schools in grades K-6 and 9-12, the local school covers the annual seat cost, and as a matter of practice, when students transfer out of those schools, the school retains the device.

9.6.3. Replacements

The Department expects that for a variety of reasons, a device may require replacement. Bidders must describe how it will provide replacement devices for the term of the Agreement. Replacement devices must be the same as the original device or functionally equivalent and similar enough so that it does not interfere with the intended educational use nor any of the integrated support methods and protocols established by the Bidder to meet the requirements of this RFP.

The online asset management system must include a method that allows schools to request replacement devices. The solution must include the capacity to maintain records of these transactions and an internal workflow that provides the messaging capacity to resolve questions related to a request in order to complete a replacement request. The method must include the capacity to categorize replacement requests (i.e. stolen, dropped, liquid damaged, etc.). Newly introduced devices must be tracked in the asset management system like any other asset, and the introduction of associated device data is the responsibility of the Bidder.

9.6.4. Asset History

The online asset management system will provide a comprehensive history for each asset that includes assignment history (i.e. a device may be assigned to more than one student over the course of multiple years or may be transferred from one school to another), device data changes (i.e. in the current program, ethernet addresses (MAC) are changed when logic boards are replaced in devices. This unique address must be updated in the asset management solution), repair history, etc. The asset history for any individual asset must be easily accessible to authorized users.

9.6.5. School Information

Basic demographic information about each site must be maintained in the asset management solution. This must include contact information for key individuals at each site including but not limited to school administrators and technology administrators. This information must be easily accessible to authorized users.

9.6.6. Reporting

The online asset management system must include reporting functionality. Reports should be downloadable, and when appropriate, available in common tabular formats for reuse of the data. At the minimum, the system must include reports of asset inventory by type (user device,

network assets, etc.), contact information, asset transfers, and replacement devices. Reports must only include data viewable to the authorization level of the user, and reports must be able to be produced against a site, district, or the entire state inventory.

The intent of providing reporting to both site, districts, and the Department are to facilitate better management of the inventory of assets including trend analysis related to topics like transfers, replacements, or repairs.

The Provider should describe other functionality included in the asset management system that will facilitate successful management of the project at both a Department and site level.

10. Professional Development, Curriculum Integration, and Consultation

The Department believes that professional development for educators, education leaders, and technology support personnel are vitally important to the success of a 1:1 program as described in this RFP.

The Provider will become a partner to the Department of Education, and all professional development activities will be developed in coordination with the Department. The Provider will develop and deliver professional development materials and opportunities under the direct supervision of the Department of Education. While the Department recognizes that good teaching and learning practices exist with or without technology, it also believes that the presence of personal digital devices in classrooms and outside of classrooms necessarily changes the teaching and learning landscape. As such, the Department seeks a Provider that can support effective and innovative teaching and learning processes that without this foundation could not exist.

The MLTI has adopted and promoted two models to guide teacher practice and the integration of technology into instruction and learning. These models are Technological, Pedagogical, Content Knowledge (TPCK) by Drs. Punya Mishra and Matthew Koehler (<http://www.tpck.org>) and Substitution, Augmentation, Modification, Redefinition (SAMR) by Dr. Ruben Puentedura (<http://www.mlti.org/samr> and <http://www.hippasus.com/rrpweblog/>). These models should act as a guide in the development and implementation of all professional development materials and opportunities.

10.1.1. Maine Transition Support

While many of the professionals in Maine schools have many years of experience in MLTI schools, the depth of knowledge and the application of innovative practices vary greatly. Nonetheless, the Department recognizes that the next MLTI solution will require a certain level of basic training regardless of the platform or device. The Bidder must address in its proposal how it plans to transition Maine schools from the existing MLTI solution to its solution. This should include supporting teachers with the migration of files in format that have been created using software included in the current MLTI solution to compatible formats in the Bidder's solution. See **Appendix E, State Profiles – Maine** for a list of software titles included in the current MLTI solution.

10.2. Curriculum Integration Professional Development

10.2.1. Educator Professional Development

The integration of technology into teaching and learning processes remain the keystone to any 1:1 program. The Provider will develop and deliver professional development materials and opportunities for educators throughout the term of the Agreement to support the effective integration of the solution into teaching and learning. Bidders must address how it plans to provide professional development opportunities to educators throughout the State. The Department has recognized many challenges over the past decade of implementing Maine's 1:1 program and providing professional development to educators including:

- Heterogeneous skills and experience using technology among the educators. While the program has been in place for over a decade and the base skills and capacities of teachers may be stronger overall than other large populations in other places, there still exists a wide variability among them.
- The need for greater understanding of how a 1:1 program can facilitate student-centered teaching and learning. The Department recognizes that one barrier to the high-level integration of 1:1 technology is the need for greater understanding of the ways such technology can support a student-centered approach to teaching and learning.
- Many teachers have "tech skills" but lack the teaching and management skills necessary to leverage those skills. The Department recognizes that technology-use skills do not necessarily result in effective technology-empowered teaching and learning. Too often, "technology integration" is done a very basic level, leaving unrealized the potentially transformative power of a 1:1 approach.
- Lack of availability of substitute teachers limits participation. For face-to-face opportunities during the school day, the Department has found that it is difficult to host large sessions with teachers in a single school or a single region because in many areas, there are not enough substitute teachers to provide coverage while the teachers are participating in the professional development opportunity.

The Department has provided synchronous and asynchronous online professional development opportunities including online classes, webinars, and podcasts. While each has been viewed as effective for some, the Department also recognizes that like students, the learning styles and comfort of teachers is varied.

The Provider will provide an appropriate amount of educationally relevant professional development training for teachers and other school personnel as identified by the school to support the most effective use of the Provider's solution. The Bidder must describe its professional development plans to address the challenges identified by this RFP as well as anticipated challenges identified by the Bidder. Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient teacher professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to signup for opportunities.

10.2.2. Leadership Professional Development

Leadership at all levels is critically important to the success of a 1:1 program. The Department

wishes to strengthen and build the capacity of its educational leaders including principals, superintendents, curriculum coordinators, technology directors, and other key personnel. Today's educational leaders need to be able to embrace technology as a tool for transforming teaching and learning, and need to lead their schools and school systems in more fully realizing that transformational power. The Department has found, however, that technology is sometimes viewed by education leaders as an extra or an add-on, rather than the transformative tool it has the potential to be. The Department recognizes training leaders to embrace and be advocates for this kind of change is a wide-ranging and open-ended challenge. Bidders must describe how it plans to address the development of this kind of leadership capacity in the schools empowered by the Bidder's solution.

Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient leadership professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to signup for opportunities.

10.2.3. Technical Professional Development

The Provider will provide an appropriate amount of technical professional development to participating school and district technology support personnel. While the number of technology staff vary from school to school, the Provider should assume that each participating school has at least one assigned staff member to provide technology support. The Department assumes that over the course of the Agreement, that the technology provided in the solution and those systems, protocols, and tools necessary to support the solution will change as new versions of software are released or as upgrades or refinements are introduced. As such, the Department expects the Provider to provide technical training throughout the term of the Agreement designed to enable school and district technology support personnel to provide end-user, just-in-time, support, to troubleshoot the solution as necessary to leverage the support the Provider's solution, and to effectively manage the technical implementation challenges that are inherent in a large-scale implementation. The Bidder will describe the support and maintenance aspects of its solution in **Section 11, Support and Maintenance**.

Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient technical professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to signup for opportunities.

In general, while the Department cannot require attendance of technology support personnel at

professional development opportunities, based on historical attendance, the Department expects that virtually all technology support personnel will attend opportunities provided during the normal school year. If opportunities are provided during the traditional school summer break, the Department expects that technology support personnel from smaller and more rural schools are less likely to be available due to more limited employment terms.

10.3. Ownership of Content and Curricula

All new professional development materials produced, including content and curricula, and audio/video recordings of live workshops, and provided by the Provider as a result of this RFP and the resulting Agreement, are owned by the Maine Department of Education. The Department will publish all content, curricula, and recordings under a Creative Commons Attribution license or other appropriate open license whenever possible, but reserves the right to do otherwise. The Bidder should acknowledge its understanding of this requirement and indicate its intent to comply.

11. Support and Maintenance

As part of the cost, the vendor will provide ongoing support to the schools for the duration of the agreement. Since the cost is to cover the full costs of deploying and supporting the solution, each Bidder must factor a full support package into its price. The components of such a full support package must include those components necessary to assure the Performance and Quality specifications are met continuously and that the solution is sufficiently supported at all times. The support package must include, but is not limited to: Help Desk; repair; preventative maintenance; licensing; fixes and updates for software, firmware, microcode; etc. A Bidder, depending upon its bid type, may need to include warranty, spares, and other items.

This support will include Help Desk or Support Center service available via 1-800 type access which includes staffing, tools and processes to meet the schools' support requirements including a system of dispatching, tracking, priority setting, reporting and escalation which ensure timely and satisfactory response and resolution. The Provider may also employ other communication systems for delivery of just-in-time support such as Internet audio chat, text chat, web forums, etc. School users of the Help Desk may be students, teachers, administrators, and technical coordinators. Bidders should note that technical assistance related to Internet connectivity is expected insofar as to help determine if the issue is related to the Bidder's solution or the school/home's Internet Provider. The Department expects the Provider to coordinate with the school ISPs to make support as seamless as possible. The Bidder will describe its Help Desk offering as well as its ongoing technical support provided for its proposed solution.

The Bidder will fully describe the process and plan that will be utilized whenever a break/fix event (both in-warranty and out-of-warranty) occurs within any aspect of the Provider's solution. This will cover the entire process of repairing or replacing a portable computing device or any of the solution infrastructure. The infrastructure will be defined as switches, servers, LAN devices, remote access devices or any other equipment provided by the vendor.

As part of its solution reliability strategy, the vendor may provide spare portable computing devices or other spare equipment, to be housed at the local school and configured to the school's specifications for use, while school-assigned devices/equipment are being repaired or replaced. The local quantity of spare portable computing devices should be based on the Bidder's experience with these devices in other, similar environments.

11.1. Solution Support

Each Bidder must address—at a minimum—the items above, as well as the requirements of **Section**

8, Performance and Quality, in fully describing here its proposed support program to demonstrate that its approach will provide solid, effective support for the users of the solution.

11.2. Service and Support Plan

As part of the Project Plan, the awarded Provider will provide a complete Service and Support plan. Each Bidder will acknowledge here its responsibility to do so should it become the Provider.

12. Project Management and Implementation

The Provider must ensure a successful implementation for each of the participating sites. This includes necessary site surveys, validation testing, installation and configuration of all hardware and software, training, support program implementation and any other aspects of the solution necessary. The following requirements are associated with this requirement and schedule.

12.1. Project Plan and Deliverables

The Provider will develop and implement a project plan that includes, as a minimum, the following deliverables. Failure to submit the required plan in accordance with this timetable may result in termination, liquidated damages, or delayed payment to the Provider. Each Bidder must describe its ability to meet these requirements:

12.1.1. Project Plan

The preliminary Project Plan itself will be delivered for approval not later than 30 calendar days after the Agreement is approved by the State Purchases Review Committee. Development of the plan with the Department's involvement is required. The Plan must include all aspects of the project and its deliverables, including coordination with the Department and the schools, communications and reporting, timetable, Validation Testing Subplan, Deployment Subplan, Professional Development Subplan, and the Service and Support Subplan. This Project Plan will be revised and improved periodically as needed, subject to approval by the Department.

12.1.2. Validation Testing

This will be system testing, in participating schools, that confirms that the solution meets or exceeds the functional requirements, and the performance and reliability specifications as required under the Agreement between the Provider and the Department resulting from this procurement process. This Validation Test will enable the Provider the opportunity to test its equipment in school environments and will assure the Department that the solution is acceptable for production deployment. The test will include up to five (5) schools and must be successfully completed by July 19, 2013.

12.1.3. Educational Conferences

Participation in at least twenty (20) educational conferences or meetings annually in conjunction with the Department, the intent of which is to help inform the educational community of the project plans and to maintain communication and ongoing relationships with the participating schools. These conferences may begin as early as June 2013.

12.1.4. Implementation

The Provider must successfully install, configure and test all hardware and software for each participating site. In School Year 1 this must be completed by August 23, 2013.

The Provider will install cabling for its solution and its connection to the school's local network. At the Provider's discretion, they may utilize existing cabling in the schools. If done, the Provider must agree to warranty those parts of the local infrastructure that they utilize as they would newly installed equipment. The local school will arrange for electrical work based on the Provider's specifications. Local construction, abatement and other costs are the responsibility of the school. As part of the installation, the Provider will provide an overview to the local technical coordinator of the resulting network and train the person(s) in the basics of system/network operation and support.

Each school installation will include provision of complete, current documentation necessary for effective and successful use of the solution by people such as system administrators, site support personnel, and teachers. This may include manuals, guides, quick reference materials and other documentation. Electronic versions are required. Each Bidder will describe what documentation they will provide and how they will provide it in order to be effective.

Each installation will include establishment of a site work completion and satisfaction sign-off form. The Provider's equipment and work at each site will not be considered complete nor will it be paid for until satisfaction sign-offs are obtained from both the responsible site person and the Department's Agreement administrator.

12.1.4.1. Maine Implementation

Note that certain schools in Maine begin the school year in early August, and therefore those schools should have equipment installed and tested no later than July 26, 2013.

12.1.4.2. Hawaii Implementation

Note that nearly all schools in Hawaii begin the school year in late July, and therefore it would be preferable if those schools would have equipment installed and tested no later than June 26, 2013.

12.1.4.3. Vermont Implementation

Note that certain schools in Vermont begin the school year in early to mid-August, and therefore those schools should have equipment installed and tested no later than June 26, 2013.

12.1.5. Professional Development

Professional development for the solution must be provided for the participating schools' teachers, leadership, and technical support personnel as addressed in **Section 10, Professional Development, Curriculum Integration, and Consultation** of this RFP. Bidder will include a professional development subplan as part of the Project Plan.

12.1.6. Support and Service

The Provider will deliver ongoing technical support to the schools (on site and remote) for the period of the contract for the Provider's solution and its integration into the schools' academic program.

12.1.7. Timeline

The Bidder will propose a timeline, consistent with the RFP requirements, that it will commit to for the implementation process, commencing from approval of the Agreement to completion of the first year implementation. The timeline should include all major phases and milestones.

12.1.8. Project Staffing

An in-State experienced, qualified, and effective project team will be identified and provided, subject to approval by the Department's Agreement administrator. The Bidder will provide a description of its project staffing plan for all phases and tasks. Identify each senior staff member and complete for each the form in Appendix G in order to demonstrate your staff's experience with projects similar to this one. At a minimum, the Provider will maintain an in-State team for the length of the project made up of a Project Manager, Educational Specialist, Professional Development Specialists, and Technical Engineers sufficient to implement and support the program.

12.1.9. Coordination with Schools

The Provider will work with the Department and each school and its principal or principal designee to determine via any necessary site surveys the local requirements necessary to implement the solution as well as any local change requirements and costs, and will coordinate the installation of its solution with each school's changes. These local change requirements would include not only the basic solution but also any additions or adaptations that a school elects to implement at its own local cost (e.g., switches, hubs, software, hardware, adaptive devices). The Provider must accommodate school schedules and needs, even if this requires some alteration of the Provider's customary schedule. Such accommodation must not include any additional, premium or overtime charges.

12.1.10. Work Within Schools

Each Bidder will succinctly describe the basic physical characteristics of the proposed equipment including dimensions, weights, electrical, HVAC and any other specifications vital to know. All required cables, wires, mounts and connectors will be specified by the Bidder.

All cabling, wiring, connectors and mounts will be installed in a manner which results in safe and secure facilities. No hazards will be created; any identified hazard will be pointed out to appropriate site or Department personnel. Installations must be performed in a manner which does not harm or diminish local site designs, structural integrity or – to the extent feasible – cosmetics. Installations will meet all prevailing local codes and governing body codes as well as IEEE, TIA/EIA and ISO/IEC standards for cabling and wiring.

- **IEEE** - Institute of Electrical and Electronic Engineers
- **TIA/EIA** - Telecommunications Industry Association/Electronic Industry Association
- **ISO/EIC** - International Organization for Standardization/Equipment Installer's Code

12.1.11. Change Control

A change control process will be utilized. The Provider must ensure that system and site changes are implemented effectively, reasonably, are documented and scheduled — and must ensure good communication with those affected by the changes, both before and after the change.

12.1.12. Project Management Reporting

The Provider will submit on the last working day of each month a detailed monthly progress report to the Department's Project Manager, starting with the first month of the Agreement. Among other things, this report must include a monthly summary of the performance metrics specified earlier. The Provider may be requested to supply additional information as warranted.

12.1.13. Ongoing Improvements

Since the Department is vitally interested in investing in solutions which have long-life and upgradeability to provide continuing and enhanced capabilities over time, including migration to evolving standards, each Bidder must describe its solution's ability to adapt to or to incorporate improved technology. Fully describe how you would identify progressions in technology and integrate them into products previously installed at customer sites. Examples might be incorporation of an emerging wireless standard or upgrades to the core operating system and application software.

The Department is seeking a solution that adheres to industry standards and open systems architectures as versus proprietary solutions. Each Bidder must identify whether its solution includes proprietary aspects and, if it does, will provide in its proposal a schedule and a plan to the Department for the Provider's migration to industry standards - or state that it intends to continue pursuing its proprietary approach.

PART III KEY RFP EVENTS

A. Timeline of Key RFP Events

Event Name	Event Date and Time
Bidders' Conference	November 29, 2012 at 10:00am, local time
Due Date for Receipt of Written Questions	December 12, 2012 at 5:00pm, local time
Due Date for Receipt of Proposals	January 11, 2013 at 2:00pm, local time
Oral Presentations	January 23-25, 2013 (time to be determined)
Contract Award Announcements	January 30, 2013

Please note: the aforementioned dates are subject to change.

B. Bidders' Conference

The Sourcing Team will sponsor a Bidders' Conference concerning this RFP beginning at the date and time shown in the timeline above. The Bidders' Conference will be held on the campus of Bowdoin College in Brunswick, Maine, in Daggett Lounge of Thorne Hall. Maps of the Bowdoin College campus can be found at the following web address: <http://www.bowdoin.edu/about/campus/maps>. All attendees are encouraged to give themselves adequate time to navigate the campus and locate the Bidders' Conference location.

The purpose of the Bidders' Conference is to answer and/or field questions, clarify for potential Bidders any aspect of the RFP requirements as needed, and provide supplemental information to assist potential Bidders in submitting responses to the RFP. Although attendance at the Bidders' Conference is not mandatory, it is *strongly encouraged* that interested Bidders attend.

C. Questions

1. General Instructions

- It is the responsibility of each Bidder to examine the entire RFP and to seek clarification in writing if the Bidder does not understand any information or instructions.
- Questions regarding the RFP must be submitted in writing and received by the RFP Coordinator listed on the cover page of this RFP document as soon as possible but no later than the date and time specified in the timeline above.
- Questions may be submitted by e-mail or in hardcopy via regular mail. The Sourcing Team assumes no liability for assuring accurate/complete e-mail or mail transmission and receipt.
- Include a heading with the RFP Number and Title. Be sure to refer to the page number and paragraph within this RFP relevant to the question presented for clarification, if applicable.

2. Summary of Questions and Answers

Responses to all substantive and relevant questions will be compiled in writing and posted at <http://www.maine.gov/mlti/rfp> no later than seven (7) calendar days prior to the proposal due date. It is the responsibility of the bidder to monitor the web site for responses to written questions. Only those answers issued in writing by the RFP Coordinator will be considered binding. The Department reserves the right to answer or not answer any question received.

D. Submitting the Proposal

- Proposals due:** Proposals must be received no later than 2:00 p.m. local time, on the date listed in the timeline above, at which point they will be opened. Proposals received after the 2:00 p.m. deadline will be rejected without exception.

2. Mailing/Delivery Instructions

PLEASE NOTE: The proposals are not to be submitted to the RFP Coordinator. The official delivery site is the State of Maine Division of Purchases (address shown below).

- a. Only proposals received at the official delivery site prior to the stated deadline will be considered. Bidders submitting proposals are responsible for allowing adequate time for delivery. Proposals received after the 2:00 p.m. deadline will be rejected without exception. Postmarks do not count and fax or electronic mail transmissions of proposals are not permitted unless expressly stated in this RFP. Any method of hardcopy delivery is acceptable, such as US Mail, in-person delivery by Bidder, or use of private courier services.
- b. The Bidder must send its proposal in a sealed package including **one signed original and seven copies** of the complete proposal. Please clearly label the original. One electronic copy of the proposal must also be provided on CD or flash drive with the complete narrative and attachments in MS Word format (.doc/.docx). Any attachments that cannot be submitted in MS Word format may be submitted as Adobe (.pdf) files. Ideally, proposals should be provided in a single searchable data file.
- c. The Bidder's one allowed "Alternate Proposal", if submitted, should be submitted in a separate, sealed package, but otherwise follow all of the same guidelines provided above in (b) and **Part I, Section C Eligibility to Submit Proposals and Alternate Proposals.**
- d. Address each package as follows (and be sure to include the Bidder's full business name and address as well as the RFP number and title):

Bidder Name/Return Address

State of Maine
Division of Purchases
Burton M. Cross Building, 4th Floor
111 Sewall Street
9 State House Station
Augusta, ME 04333-0009

Re: RFP # 201210412

PART IV PROPOSAL SUBMISSION REQUIREMENTS

This section contains instructions for Bidders to use in preparing their proposals. The Bidder's proposal must follow the outline used below, including the numbering and section and sub-section headings as they appear here. Failure to use the outline specified in this section or to respond to all questions and instructions throughout this document may result in the proposal being disqualified as non-responsive or receiving a reduced score. The Sourcing Team for this RFP has sole discretion to determine whether a variance from the RFP specifications should result in either disqualification or reduction in scoring of a proposal. Rephrasing of the content provided in this RFP will, at best, be considered minimally responsive. The Sourcing Team seeks **detailed yet succinct** responses that demonstrate the Bidder's experience and ability to perform the requirements specified throughout this document.

A. Proposal Format

1. For clarity, the proposal should be typed or printed. Proposals should be single-spaced with 1" margins on white 8 ½" x 11" paper using a font no smaller than 12 point Times New Roman or similar.
2. All pages should be numbered consecutively beginning with number 1 on the first page of the narrative (this does not include the cover page or table of contents pages) through to the end, including all forms and attachments. For clarity, the Bidder's name should appear on every page, including Attachments. Each Attachment must reference the section or subsection number to which it corresponds.
3. Bidders are asked to be brief and to respond to each question and instruction listed in the "Proposal Submission Requirements" section of this RFP. Number each response in the proposal to correspond to the relevant question or instruction of the RFP, and for ease of reference, please copy the relevant question on instruction prior to the Bidder's response.
4. The Bidder may not provide additional attachments beyond those specified in the RFP for the purpose of extending their response. Bidders shall not include brochures or other promotional material with their proposals. Additional materials will not be considered part of the proposal and will not be evaluated.
5. Include any forms provided in the application package or reproduce those forms as closely as possible. All information should be presented in the same order and format as described in the RFP.
6. It is the responsibility of the Bidder to provide all information requested in the RFP package at the time of submission. Failure to provide information requested in this RFP may, at the discretion of the Sourcing Team, result in a lower rating for the incomplete sections and may result in the proposal being disqualified for consideration.
7. Bidders should complete and submit the proposal cover page provided in Appendix A of this RFP and provide it with the Bidder's proposal. The cover page must be the first page of the proposal package. It is important that the cover page show the specific information requested, including Bidder address(es) and other details listed. The proposal cover page shall be dated and signed by a person authorized to enter into contracts on behalf of the Bidder.

B. Proposal Contents

1.1.1. Section I Organization Qualifications and Experience

1. Description of the Organization

Present a detailed statement of qualifications and summary of relevant experience. If subcontractors are to be used, provide a list that specifies the name, address, phone number, contact person, and a brief description of the subcontractors' organizational capacity and qualifications.

2. Organizational Description and Qualifications

- a. List the location of the Bidder's corporate headquarters. Also, describe the current or proposed location where services will be provided or from which the contract will be managed.

- b. Attach documentation of any applicable licensure requirements (or any specific credentials required).
- c. Attach a certificate of insurance on a standard Acord form (or the equivalent) evidencing the Bidder's general liability, professional liability, and any other relevant liability insurance policies that might be associated with this contract.

3. Organizational Experience

Briefly describe the history of the Bidder's organization, especially regarding skills pertinent to the specific work required by the RFP and any special or unique characteristics of the organization which would make it especially qualified to perform the required work activities. Include similar information for any subcontractors.

4. Description of Experience with Similar Projects

- a. Provide a description of five projects that occurred within the past five years which reflect experience and expertise needed in performing the functions described in the "Scope of Services" portion of this RFP. For each of the five examples provided, a contact person from the client organization involved should be listed, along with that person's telephone number and email address. Please note that contract history with the any states on the Sourcing Team, whether positive or negative, may be considered in rating proposals even if not provided by the Bidder.
- b. If the Bidder has not provided similar services, note this, and describe experience with projects that highlight the Bidder's general capabilities.

1.1.2. Section II Specifications of Work to be Performed

1. Services to be Provided

Discuss in detail the Scope of Services referenced above in this RFP and what the Bidder will offer. Give particular attention to describing the methods and resources you will use and how you will accomplish the tasks involved. If subcontractors are involved, clearly identify the work each will perform.

1.1.3. Section III Cost Proposal

1. General Instructions

- a. The Bidder must submit a cost proposal that covers the entire period of the contract, including any optional renewal periods.
- b. The cost proposal shall include the costs necessary for the Bidder to fully comply with the contract terms and conditions and RFP requirements.
- c. Failure to provide the requested information and to follow the required cost proposal format provided in Appendix B may result in the exclusion of the proposal from consideration, at the discretion of the Sourcing Team.
- d. No costs related to the preparation of the proposal for this RFP or to the negotiation of the contract with the Sourcing Team may be included in the proposal. Only costs to be incurred after the contract effective date that are specifically related to the implementation or operation of contracted services may be included.

1.1.4. Section IV Economic Impact

In addition to all other information requested within this RFP, each Bidder must dedicate a section of its proposal to describing the Bidder's economic impact upon any state that chooses to participate under this program. The use of economic impact in making contract award decisions is required in accordance with

State of Maine Executive Order 2012-004, which states that certain service contracts "...advertised for competitive bid shall include scoring criteria evaluating the responding Bidder's economic impact..." Although the Executive Order is specific to the State of Maine, the Bidder's economic impact information should be applicable to any state that chooses to participate in this program (whether it be Maine, or a different state).

For the purposes of this RFP, the term "economic impact" shall be defined as any activity that is directly performed by or related to the Bidder and has a direct and positive impact on the economy and public revenues within any state that chooses to participate under this program. Examples may include, but are not limited to, employment of the subject state's residents, subcontracting/partnering with the subject state's businesses, payment of state and local taxes (such as corporate, sales, or property taxes), and the payment of state licensing fees for the Bidder's business operations.

To complete the "economic impact" section of the Bidder's proposal, the Bidder shall include no more than one page of typed text, describing the Bidder's current, recent, or projected economic impact, as defined above. The Bidder may include all details and information that it finds to be most relevant for this section.

PART V PROPOSAL EVALUATION AND SELECTION

Evaluation of the submitted proposals shall be accomplished as follows:

A. Evaluation Process - General Information

1. A Sourcing Team, comprised of qualified reviewers from multiple states, will judge the merits of the proposals received in accordance with the criteria defined in the RFP, and in accordance with the most advantageous cost and economic impact considerations (where applicable) for the participating states.
2. The Sourcing Team reserves the right to communicate and/or schedule interviews/presentations with Bidders if needed to obtain clarification of information contained in the proposals received, and the Sourcing Team may revise the scores assigned in the initial evaluation to reflect those communications and/or interviews/presentations. Interviews/presentations are not required, and changes to proposals will not be permitted during any interview/presentation process. Therefore, Bidders should submit proposals that present their costs and other requested information as clearly and completely as possible.

B. Scoring Weights and Process

1. **Scoring Weights:** The score will be based on a 100 point scale and will measure the degree to which each proposal meets the following criteria.

Section I. Organization Qualifications and Experience (15 points)

Includes all elements addressed above in Part IV, Section I.

Section II. Specifications of Work to be Performed (55 points)

Includes all elements addressed above in Part IV, Section II.

Section III. Cost Proposal (25 points)

Includes all elements addressed above in Part IV, Section III.

Section IV. Economic Impact (5 points)

Includes all elements addressed above in Part IV, Section IV.

2. **Scoring Process:** The Sourcing Team will use a consensus approach to evaluate the bids. Members of the Sourcing Team will not score the proposals individually but instead will arrive at a consensus as to assignment of points on each category of each proposal. The contract award(s) will be made to the Bidder(s) receiving the highest number of evaluation points, based upon the proposals' satisfaction of the criteria established in the RFP. The Economic Impact section will also be scored using a consensus approach, with the highest number of evaluation points being assigned to the Bidder(s) with the most economic impact, actual or feasible, as determined by the Evaluation Team. Cost section will be scored according to a mathematical formula described below.
3. **Scoring the Cost Proposal:** The costs proposed for conducting all the functions specified in this RFP will be assigned a score according to a mathematical formula. Costs will be evaluated individually for each "tier" proposed. The lowest-priced bid will be awarded 25 points. Proposals with higher bids values will be awarded proportionately fewer points calculated in comparison with the lowest-priced bid.

The scoring formula is:

(lowest submitted cost proposal / cost being scored) x 25 = pro-rated score

No Best and Final Offers: The Sourcing Team will not seek a best and final offer (BAFO) from any Bidder in this procurement process. All Bidders are expected to provide their best value pricing with the submission of their proposal.

4. Negotiations

The Sourcing Team reserves the right to negotiate with the successful Bidder(s). Such negotiations may not significantly vary the content, nature or requirements of the proposal or the Sourcing Team's Request for Proposals. In the event that an acceptable contract cannot be negotiated with the highest ranked Bidder, the Sourcing Team may withdraw its award and negotiate with the next-highest ranked Bidder. Alternatively, the Sourcing Team may cancel the RFP, at its sole discretion.

C. Selection and Award

1. The final decision regarding the award of the Master Price Agreements will be made by the Sourcing Team, and the award of Participating Addenda will be made by each participating state, independently.
2. Notification of the contract awards will be made in writing.
3. Issuance of this RFP in no way constitutes a commitment by the Sourcing Team or any state to award a contract.
4. The Sourcing Team reserves the right to reject any and all proposals or to make multiple awards.

D. Appeal of Contract Awards

Any person aggrieved by the award decision that results from this RFP may appeal the decision to the State of Maine Director of the Bureau of General Services in the manner prescribed in 5 MRSA § 1825-E and 18-554 Code of Maine Rules, Chapter 120 (found here: <http://www.maine.gov/purchases/policies/120.shtml>). The appeal must be in writing and filed with the State of Maine Director of the Bureau of General Services, 9 State House Station, Augusta, Maine, 04333-0009 within 15 calendar days of receipt of notification of contract award.

This RFP is expected to result in the creation of a pre-qualified list of vendors. The appeal procedures mentioned above are available upon the original determination of that pre-qualified list, but not during subsequent participating state selections involving only the pre-qualified list vendors.

PART VI CONTRACT ADMINISTRATION AND CONDITIONS

Contract Document

1. The successful Bidder(s) will be required to execute a contract in the form of a NASPO Master Price Agreement. A copy of the standard terms and conditions that make up a Master Price Agreement are provided as Appendix D.

As noted above, after a successful Bidder is pre-qualified and signs a Master Price Agreement, then it will be eligible to sign Participating Addenda with interested states. The terms and conditions that make up a Participating Addendum will be made up of that state's standard contract language, but will vary from state to state.

2. The Sourcing Team estimates having Master Price Agreements in place in January 2013. The Sourcing Team recognizes, however, that the actual contract effective date depends upon completion of the RFP process, date of formal award notification, length of contract negotiation, and preparation and approval by internal state approval bodies. Any appeals to the award decision(s) may further postpone the actual contract effective date, depending upon the outcome. The contract effective date may need to be adjusted, if necessary, to comply with mandated requirements.
4. In providing services and performing under the contract, the successful Bidder shall act independently and not as an agent of the Sourcing Team or the participating state(s).

Standard Agreement Provisions

1. Payments and Other Provisions

The payment terms under this program will be determined upon the formation of the Participating Addenda with individual, participating states. An invoice will be considered accurate and acceptable if it contains all of the requirements specified by the participating state, which may include but is not limited to: a reference to the state's contract number, contains correct pricing information relative to the contract, receipt of satisfactory deliverables, and provides any required supporting documents, as applicable, and any other specific requirements listed within this RFP.

PART VII LIST OF RFP APPENDICES AND RELATED DOCUMENTS

1. Appendix A –Proposal Cover Page
2. Appendix B – Cost Proposal Form
3. Appendix C – Participant Tier Structure (to be used for determining Bidder Costs)
4. Appendix D – NASPO Standard Terms and Conditions
5. Appendix E – State Profiles showing current “readiness” for program implementation within certain example states.
6. Appendix F – Letter from Microsoft specifying discounts that can be applied to any proposal that offers Microsoft applications as part of the Bidder’s proposed response.
7. Appendix G – Additional Forms

PART VIII APPENDICES

Appendix A

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials

PROPOSAL COVER PAGE

RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Bidder's Organization Name:		
Chief Executive - Name/Title:		
Tel:	Fax:	E-mail:
Headquarters Street Address:		
Headquarters City/State/Zip:		
<i>(provide information requested below if different from above)</i>		
Lead Point of Contact for Proposal - Name/Title:		
Tel:	Fax:	E-mail:
Street Address:		
City/State/Zip:		

Proposed Cost:	
<i>The proposed cost listed above is for reference purposes only, not evaluation purposes. In the event that the cost noted above does not match the Bidder's detailed cost proposal documents, then the information on the cost proposal documents will take precedence.</i>	

- This proposal and the pricing structure contained herein will remain firm for a period of 180 days from the date and time of the bid opening.
- No personnel on the multi-state Sourcing Team or any other involved state agency participated, either directly or indirectly, in any activities relating to the preparation of the Bidder's proposal.
- No attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a proposal.
- The undersigned is authorized to enter into contractual obligations on behalf of the above-named organization.

To the best of my knowledge all information provided in the enclosed proposal, both programmatic and financial, is complete and accurate at the time of submission.

Authorized Signature Date Name and Title (Typed)

Appendix B

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials

COST PROPOSAL FORM

RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Instructions: Bidders must complete the form below in order to have their proposals considered in this procurement process.

Bidder's Organization Name: _____

Please Note:

- The participating states and entities involved with this procurement process recognize that costs can vary in accordance with the “commitment” and “readiness” of individual participating entities that are interested in implementing this learning technology program. With that in mind, Bidders are asked to submit tiered pricing, as indicated below. The structure that determines a participant’s “tier” is shown on Appendix C.
- Costs for equipping students/teachers with learning technology and associated services must be proposed on a per-seat basis, as shown in Table 1, below.
- It is anticipated that total per-seat participation in this multi-state program will increase throughout the duration of the contracts that result from this RFP. Participating entities seek a discount of the pricing proposed by interested Bidders in Table 1 for every increase of 500,000 seats.
- Costs for setting up a wireless network within a participating school must also be provided on a per-seat basis, but these network costs must be provided separately, on Table 3, below. A state’s aforementioned “tier” is irrelevant to its need for a wireless network to support this program, so only one cost figure is required, which would be applicable for all participating entities (on a per-seat basis).
- Table 4 has been provided for Bidders to list “optional features” that has been specified within the RFP (for example, optional “no fault” insurance coverage or Section 6.7).

COST PROPOSAL FORM

RFP # 201210412

MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Table 1 – Student/Teacher Learning Technology Solution Costs

Cost proposed per-seat for Tier 1 participants:	\$
Cost proposed per-seat for Tier 2 participants:	\$
Cost proposed per-seat for Tier 3 participants:	\$

Table 2 – Volume Discount Factor

Percentage discount proposed to Table 1 prices for every 500,000 seats of increased participation:	%
--	---

Table 3 – School Wireless Network Costs

Cost proposed per-seat for all participants:	\$
--	----

Table 4 – Optional Features

[insert as needed]	\$
	\$
	\$
	\$

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials

PARTICIPANT TIER STRUCTURE

RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Please Note: As indicated on Appendix B, the participating states and entities involved with this procurement process recognize that costs can vary in accordance with the “commitment” and “readiness” of individual participating entities that are interested in implementing this learning technology program. With that in mind, Bidders have been asked (on Appendix B) to submit tiered pricing. The structure that determines a participant’s “tier” is shown below. This information should be used by interested Bidders to best provide pricing in accordance with the tables shown on Appendix B.

Factors that determine Tier 1 status:

- 1) Pre-existing statewide program
- 2) Legislative support for the program to be state-led
- 3) Funding from the state to ensure participation
- 4) State team dedicated to supporting implementation
- 5) State will act as purchasing aggregator
- 6) State or Regional Broadband network in place

Factors that determine Tier 2 status:

- 1) State team dedicated to supporting implementation
- 2) State will act as purchasing aggregator

Factors that determine Tier 3 status:

- 1) Participants that are not covers by Tier 1 or Tier 2 criteria

Appendix D

NASPO Standard Terms and Conditions

PARTICIPANTS: The National Association of State Procurement Officials (“NASPO”) is a national association of Chief Procurement Officers that has established a procurement cooperative for state government departments, institutions and political subdivisions (i.e., colleges, school districts, counties, cities, etc.) for the NASPO Member States and territories of the United States.

The Western States Contracting Alliance (WSCA) is fifteen members of NASPO who have focused on creating and managing multi-state cooperative contracts since 1993.

Obligations under contracts that result from this cooperative procurement are limited to those states and other eligible purchasing entities that execute a Participating Addendum.

Financial obligations of Participating States are limited to the orders placed by the departments or other state agencies and institutions having available funds. Participating States incur no financial obligations on behalf of political subdivisions. Unless otherwise specified in the solicitation, the resulting master price agreement(s) will be permissive.

DEFINITIONS:

“Lead State” means the State conducting this cooperative solicitation and centrally administering any resulting master price agreement.

“Master Price Agreement” means this cooperative solicitation and contract, between the designated Lead State and the awarded contractors.

“Offer” or **“Bid”** or **“Proposal”** refers to the offer submitted in response to a solicitation, whether denominated as an invitation to bid, invitation for bid, request for proposal, or otherwise. **“Bidder”** or **“Offeror”** similarly refers to the person, company, or other entity submitting the bid or proposal that constitutes an offer capable of acceptance, regardless of the solicitation method used.

“Permissive Price Agreement” means that placement of orders through the price agreement is discretionary with Purchasing Entities. They may satisfy their requirements through the master price agreement without using statutory or regulatory procedures (e.g. invitations for bids) to solicit competitive bids or proposals. Purchasing Entities may, however, satisfy requirements without using the master price agreement so long as applicable procurement statutes and rules are followed.

“Participating Addendum” means a bilateral agreement executed by a contractor and a Participating State (or a governmental entity/political subdivision with the consent of its state’s chief procurement officer) that clarifies the operation of the master price agreement for the State concerned, e.g. ordering procedures specific to a State, and may add other state-specific language or other requirements.

“Participating State (Entity)” means a state (or entity (not a state), with the prior approval of its state chief procurement official) that has executed a Participating Addendum as required by this Master Price Agreement.

“Purchasing Entity” means a Participating State, or other legal entity, properly authorized by a Participating

State to enter into a contract for the purchase of goods and/or services described in the cooperative procurement. Unless otherwise limited in the cooperative procurement or in a Participating Addendum, political subdivisions of Participating States are deemed Purchasing Entities.

REPORTING AND ADMIN FEES

A. Reporting and Administrative Fees

1. The Contractor agrees to provide quarterly utilization reports to NASPO or WSCA and the Lead State Contract Administrator by the 15th of the month following the end of the previous quarter. (Ex. Purchases during January are reported by the 15th of April). The report shall be in the format developed by the Lead State and supplied to the Contractor prior to or upon execution of the Contract.

2. The Contractor agrees to provide quarterly Administrative Fee check payable to NASPO for an amount equal to one-half of one percent (0.005) of the net sales for the period. The form to be submitted with the check, as well as the mailing

address, will be supplied to the Contractor after the execution of the Contract. Payment shall be made in accordance with the following schedule:

<u>Period End</u>	<u>Payment & Report Due</u>
June 30	July 31
September 30	October 31
December 31	January 31
March 31	April 30

3. The Contractor agrees to include data from all Reseller/Distributor/VAR/Agent sales in the monthly utilization reports described above.

4. The utilization reports shall be submitted to the Lead State Contract Administrator via electronic mail in a Microsoft Excel spreadsheet format, or other methods such as direct access to Internet or other databases.

5. If requested by the Lead State Contract Administrator, the Contractor agrees to provide supporting Purchase Order detail records on mutually agreed media in a mutually agreed format.

6. The failure to file the utilization reports and fees on a timely basis shall constitute grounds for the removal of the Contractor's primary representative, suspension of this Agreement or termination of this Agreement for cause.

7. The NASPO, WSCA and the Lead State Contract Administrator shall be allowed access to all reports from all Purchasing Entities.

B. Participating Entity Reports and Fees

1. Participating Entities may require an additional fee be paid directly to the State on purchases made by Purchasing Entities within that State. For all such requests, the fee level, payment method and schedule for such reports and payments shall be incorporated in to the Participating Addendum that is made a part of this Agreement. The Contractor may adjust pricing accordingly for purchases made by Purchasing Entities within the jurisdiction of that State. All such agreements shall have no affect whatsoever on the NASPO

administrative fee or the prices paid by the Purchasing Entities outside the jurisdiction of the State requesting the additional fee.

2. Purchasing Entities will be encouraged to use the reporting format developed by the Lead State for their reporting needs. However, the Contractor agrees to provide additional reports to Purchasing Entities upon agreement by both parties as to the content and delivery methods of the report. Methods of delivery may include direct access to Internet or other databases.

3. Each State Purchasing Entity shall be allowed access to reports from all entities within that State.

QUANTITY ESTIMATES: Estimated quantities are informational and not to be construed as a warranty of accuracy of historical or anticipated volumes or a guarantee to purchase any amount.

SPECIFICATIONS: Any deviation from specifications must be clearly indicated by offeror, otherwise, it will be considered that the proposal is in strict compliance. When BRAND NAMES or manufacturers' numbers are stated in the specifications they are intended to establish a standard only and are not restrictive unless the solicitation says "no substitute." Offers will be considered on other makes, models or brands having comparable quality, style, workmanship and performance characteristics. Alternate proposals offering lower quality or inferior performance will not be considered.

ACCEPTANCE OR REJECTION OF BIDS AND PROPOSALS: The Lead State reserves the right to accept or reject any or all bids or proposals, or parts of bids or proposals, and to waive informalities therein.

SAMPLES: Generally, when required, samples will be specifically requested in the solicitation. Samples, when required, are to be furnished free of charge. Except for those samples destroyed or mutilated during testing, samples will be returned at an offeror's request, transportation collect.

CASH DISCOUNT TERMS: Offeror may quote a cash discount based upon early payment; however discounts offered for less than 30 days will not be considered in making the award. The date from which discount time is calculated shall be the date a correct invoice is received or receipt of shipment, whichever is later; except that if testing is performed, the date shall be the date of acceptance of the merchandise.

TAXES: Offered prices shall be exclusive of state sales and federal excise taxes. Where the state government entities are not exempt from sales taxes on sales within their state, the contractor shall add the sales taxes on the billing invoice as a separate entry.

MODIFICATION OR WITHDRAWAL OF BIDS AND PROPOSALS: Bids and proposals may be modified or withdrawn prior to the time set for receipt of bids or proposals. After the time set for receipt of bids or proposals, no proposal may be modified or withdrawn.

PATENTS, COPYRIGHTS, ETC: The Contractor shall release, defend, indemnify, and hold harmless NASPO, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from liability of any kind or nature, including the Contractor's use of any copyrighted or uncopyrighted composition, process, patented or unpatented invention, article or appliance furnished or used in performance of this contract.

AWARD: Multiple master price agreements may be awarded as a result of this solicitation. Awards in requests for proposals (competitive sealed proposals) shall be made to the responsible offeror(s) whose proposals are determined to be the most advantageous to the Participating States, taking into consideration price and the other evaluation factors set forth in the solicitation. Unless otherwise stated in the solicitation, an award in a solicitation denominated as an invitation to bid will be made to the lowest responsive and responsible Bidder(s)

meeting specifications and all bid terms and conditions. The Participating States reserve the right to award items separately or by grouping items, or by total lot.

NON-COLLUSION: By signing the proposal the offeror certifies that the proposal submitted, has been arrived at independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the solicitation, designed to limit independent bidding or competition.

TERMINATION: Unless otherwise stated in the solicitation, any master price agreement entered into as a result of this solicitation may be terminated by either party upon 60-days notice, in writing, prior to the effective date of the termination. Further, any Participating State may terminate its participation upon 30-days written notice, unless otherwise limited or stated in the special terms and conditions of the solicitation. Any termination under this provision shall not effect the rights and obligations attending orders outstanding at the time of cancellation, including any right of any Purchasing Entity to indemnification by the Contractor, rights of payment for goods/services delivered and accepted, and rights attending any warranty or default in performance in association with any order.

A. Any of the following shall constitute cause to declare the master price agreement or any order under this master price agreement in default:

DEFAULT AND REMEDIES:

- (1) Nonperformance of contractual requirements; or
- (2) A material breach of any term or condition of this master price agreement.

B. A written notice of default, and an opportunity to cure, shall be issued by the party claiming default, whether the Lead State (in the case of breach of the master price agreement), a Participating State (in the case of a breach of the Participating Addendum), the Purchasing Entity (with respect to any order), or the Contractor. Time allowed for cure shall not diminish or eliminate any liability for liquidated or other damages.

C. If the default remains after the opportunity for cure, the non-defaulting party may:

- (1) Exercise any remedy provided by law or equity;
- (2) Terminate the master price agreement or any portion thereof, including any orders issued against the master price agreement;
- (3) Impose liquidated damages, as specified in the solicitation or master price agreement;
- (4) In the case of default by the contractor, and to the extent permitted by the law of the Participating State or Purchasing Entity, suspend contractor from receiving future solicitations.

LAWS AND REGULATIONS: Any and all supplies, services and equipment offered and furnished shall comply fully with all applicable Federal and State laws and regulations.

CONFLICT OF TERMS: In the event of any conflict between these standard terms and conditions and any special terms and conditions in the solicitation, the special terms and conditions shall govern.

REPORTS: The contractor shall submit quarterly reports to the Lead State contract administrator, and upon request to any Participating State, showing the quantities and dollar volume of purchases by each Purchasing Entity.

HOLD HARMLESS: The contractor shall release, defend, indemnify and hold harmless NASPO, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from and against any damage, cost or liability, including reasonable attorneys fees for any or all injuries to persons, property or claims for money damages arising from acts or omissions of the contractor, its employees or subcontractors or volunteers.

ORDER NUMBERS: Master price agreement numbers and purchase order numbers shall be clearly shown on all acknowledgments, shipping labels, packing slips, invoices, and on all correspondence.

GOVERNING LAW AND VENUE: This procurement shall be governed and the resulting master price agreement construed in accordance with the laws of the Lead State. The construction and effect of any Participating Addendum or order against the master price agreement shall be governed by and construed in accordance with the laws of the Purchasing Entity's State. Venue for any claim, dispute or action concerning the construction and effect of the master price agreement shall be in the Lead State. Venue for any claim, dispute or action concerning an order placed against the master price agreement or the effect of a Participating Addendum shall be in the Purchasing Entity's State.

DELIVERY: The prices offered shall be the delivered price to any NASPO state agency or purchasing entity. All deliveries shall be F.O.B. destination with all transportation and handling charges paid by the contractor. Responsibility and liability for loss or damage shall remain the Contractor until final inspection and acceptance when responsibility shall pass to the Purchasing Entity except as to latent defects, fraud and Contractor's warranty obligations. The minimum shipment amount will be found in the special terms and conditions. Any order for less than the specified amount is to be shipped with the freight prepaid and added as a separate item on the invoice. Any portion of an order to be shipped without transportation charges that is back ordered shall be shipped without charge.

WARRANTY: The contractor acknowledges that the Uniform Commercial Code applies to this master price agreement. In general, the contractor warrants that: (a) the product will do what the salesperson said it would do, (b) the product will live up to all specific claims that the manufacturer makes in their advertisements, (c) the product will be suitable for the ordinary purposes for which such product is used, (d) the product will be suitable for any special purposes that the Purchasing Entity has relied on the contractor's skill or judgment to consider when it advised the Purchasing Entity about the product, (e) the product has been properly designed and manufactured, and (f) the product is free of significant defects or unusual problems about which the Purchasing Entity has not been warned.

The contractor agrees to warrant and assume responsibility for each hardware, firmware, and/or software product (hereafter called the product) that it licenses, or sells, to the Purchasing Entity under this master price agreement. When applicable, Contractor warrants that product(s) furnished pursuant to this contract shall, when used in accordance with the product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) transitions, including leap year calculations. Where a contractor proposes or an acquisition requires that specific products must perform as a package or system, this warranty shall apply to the products as a system.

Where contractor is providing ongoing services, including but not limited to: i) consulting, integration, code or data conversion, ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g., billing, invoicing, claim processing), contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of contractor's business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) various date/time transitions, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting therefrom, including but not limited to the failure or untimely performance of such services.

This Date/Time Warranty shall survive beyond termination or expiration of this contract through: a) ninety (90) days or b) the contractor's or product manufacturer/developer's stated date/time warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this contract for breach of warranty.

AMENDMENTS: The terms of this master price agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the Master Price Agreement Administrator of the Lead State.

ASSIGNMENT/SUBCONTRACT: Contractor shall not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this master price agreement, in whole or in part, without the prior written approval of the Master Price Agreement Administrator of the Lead State.

NONDISCRIMINATION: The offeror agrees to abide by the provisions of Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibit discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age, and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. The offeror further agrees to furnish information and reports to Participating State(s), upon request, for the purpose of determining compliance with these statutes. Offeror agrees to comply with each individual state's certification requirements, if any, as stated in the special terms and conditions. This master price agreement may be canceled if the offeror fails to comply with the provisions of these laws and regulations. The offeror must include this provision in every subcontract relating to purchases by the States to insure that subcontractors and vendors are bound by this provision.

SEVERABILITY: If any provision of this master price agreement is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected; and the rights and obligations of the parties shall be construed and enforced as if the master price agreement did not contain the particular provision held to be invalid.

INSPECTIONS: Goods furnished under this master price agreement shall be subject to inspection and testing by the Purchasing Entity at times and places determined by the Purchasing Entity. If the Purchasing Entity finds goods furnished to be incomplete or not in compliance with proposal specifications, the Purchasing Entity may reject the goods and require Contractor to either correct them without charge or deliver them at a reduced price, which is equitable under the circumstances. If Contractor is unable or refuses to correct such goods within a time deemed reasonable by the Purchasing Entity, the Purchasing Entity may cancel the order in whole or in part. Nothing in this paragraph shall adversely affect the Purchasing Entity's rights including the rights and remedies under the Uniform Commercial Code.

PAYMENT: Payment for completion of a master price agreement order is normally made within 30 days following the date the entire order is delivered or the date a correct invoice is received, whichever is later. The Contractor may assess overdue account charges on the outstanding balance in accordance with, and up to the maximum allowed by, the laws of the participating state. Payments may be remitted by mail or electronic funds transfer. Payments may also be made via a Purchasing Entity's "Purchasing Card".

FORCE MAJEURE: Neither party to this master price agreement shall be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. The Lead State may terminate this master price agreement after determining such delay or default will reasonably prevent successful performance of the master price agreement.

HAZARDOUS CHEMICAL INFORMATION: The Contractor will provide one set of the appropriate material safety data sheet(s) and container label(s) upon delivery of a hazardous material to the Purchasing Entity agency. All safety data sheets and labels will be in accordance with each participating state's requirements.

FIRM PRICE: Unless otherwise stated in the special terms and conditions, for the purpose of award, offers made in accordance with this solicitation must be good and firm for a period of ninety (90) days from the date of receipt of bids or proposals. Prices must remain firm for the full term of the master price agreement.

EXTENSION OF PRICES: In the case of error in the extension of prices in the proposal, the unit prices will govern.

PROPOSAL PREPARATION COSTS: NASPO and the lead state are not liable for any costs incurred by the offeror in preparation of the bid or proposal.

CERTIFICATION REGARDING CONFLICT OF INTEREST: Contractor certifies that it has not offered or given any gift or compensation prohibited by the state laws of any Participating State to any officer or employee of NASPO or Participating States to secure favorable treatment with respect to being awarded this contract.

INDEPENDENT CONTRACTOR: Contractor shall be an independent contractor, and as such shall have no authorization, express or implied to bind the Participating States to any agreements, settlements, liability or understanding whatsoever, and agrees not to perform any acts as agent for NASPO or the states, except as expressly set forth herein.

POLITICAL SUBDIVISION PARTICIPATION: Participation under this master price agreement by political subdivisions (i.e., statutorily eligible colleges, school districts, counties, cities, etc.) of a NASPO state, with the prior approval of the state chief procurement official, shall be voluntarily determined by the political subdivision.

The contractor agrees to supply the political subdivisions based upon the same terms, conditions and prices.

CERTIFICATION REGARDING DEBARMENT: The Contractor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract) by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by NASPO.

RECORDS ADMINISTRATION: The Contractor will maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this master price agreement. These records will be retained by the Contractor for at least four years after the master price agreement terminates, or until all audits initiated within the four years have been completed, whichever is later.

AUDIT OF RECORDS: The Contractor agrees to allow NASPO, State and Federal auditors, and state agency staff access to all the records related to this master price agreement, and the right to copy those records, for audit, inspection and monitoring of services. Such access will be during normal business hours, or by appointment.

PRICES AS CEILING:

Master Price Agreement prices represent ceiling prices for the supplies and services priced in the master price agreement.

The vendor shall report to the Lead State any price reduction or discount, or other more favorable terms, offered to any Purchasing Entity.

In instances NOT related to the established standards, committed volumes or volume bulk purchases of a

participating state or states, the awarded vendor agrees to negotiate in good faith to reestablish ceiling prices or other more favorable terms and conditions applicable to future orders.

STATE PARTICIPATION/UNIQUE TERMS AND CONDITIONS:

Apart from the Lead State conducting the solicitation, the States included in Appendix E, State Profiles, have signified their initial intent to participate in a Master Price Agreement resulting from this Solicitation. Attachment A of the Solicitation includes any significant modifications to these terms and conditions or State-specific provisions required by the laws, regulations, or procurement practices of the State(s). Final participation in the Master Price Agreement by the State(s) shall be signified through the execution of a Participating Addendum.

After the solicitation has closed and an award has been made, additional NASPO members may be added with the consent of the contractor through execution of a Participating Addendum.

RENTAL AND LEASES:

Rental:

Individual Participating States and Participating Entities may enter in to rental agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in rental agreements with these individual states/entities must subject copies of all of their rental agreements with their responses to this RFP. The rental agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a rental agreement with a Contractor.

Leases:

Individual Participating States and Participating Entities may enter in to lease agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in lease agreements with these individual states/entities must submit copies of all of their lease agreements with their response to this RFP. The lease agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a lease agreement with a Contractor.

COMPREHENSIVE FINANCIAL OPTIONS THAT SHOULD BE INCLUDED:

- Purchase
- Operational Leases - with varying buyout ownership options at end of term including no ownership option
- Capital Leases – Traditional financing with ownership at end of term (software, buyouts of existing leases)
- Cancelable Rentals – Cancel with four month penalty on rental payment
- All leases and rentals must have a non appropriations clause

NON-APPROPRIATION: The terms of the Agreement and any purchase order issued for multiple years under this Agreement is contingent upon sufficient appropriations being made by the Legislature or other appropriate governing entity. Notwithstanding any language to the contrary in this Agreement or in any purchase order or other document, a Purchasing Entity may terminate its obligations under this Agreement, if sufficient appropriations are not made by the governing entity at a level sufficient to allow for payment of the goods or services due for multiple year agreements, or if operations of the paying entity are being discontinued. The Purchasing Entity’s decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final and binding.

A Purchasing Entity shall provide sixty (60) days notice, if possible, of its intent to terminate for reason cited above. Such termination shall relieve the Purchasing Entity, its officers and employees from any responsibility or liability for the payment of any further amounts under the relevant Purchase Order.

WSCA/NASPO eMARKET CENTER: Awarded responders are required to participate in the WSCA/NASPO eMarket Center and, working through WSCA's contractor (SciQuest), connect with the eMarket Center. The ideal situation would be to use either a hosted (by SciQuest) or Punchout Level 2 catalog configurations, but actual requirements will be determined by the Lead State Contract Administrator, WSCA, WSCA's contractor (SciQuest) and the awarded contractor, after award. Participation does not require an awarded responder to have any special level of technology or technological understanding.

State Profiles

1. Maine

1.1. Legal/Policy Landscape

1.1.5. The State of Maine established the Maine Learning Technology Initiative in statute in 2001. To see the language of the statute, please see:

Title 20-A, Chapter 801: MAINE LEARNING TECHNOLOGY FUND
<http://www.mainelegislature.org/legis/statutes/20-A/title20-Ach801sec0.html>

1.1.6. The State of Maine established the digital literacy program in statute in 2011. To see the language of the statute, please see:

Title 20-A: EDUCATION
Part 1: GENERAL PROVISIONS
Chapter 3: DEPARTMENT OF EDUCATION
Subchapter 2: COMMISSIONER
<http://www.mainelegislature.org/legis/statutes/20-A/title20-Asec254.html>

15. Technical assistance; professional development and training for instruction in digital literacy; clearinghouse for information on use of online learning resources. The commissioner shall develop a program of technical assistance, including professional development and training for instruction in digital literacy and the establishment of a clearinghouse for information on the use of online learning resources that may be made available to all school administrative units, including those schools that participate in the learning through technology program under section 15689-A, subsection 12-A, which provides one-to-one wireless computers for 7th grade, 8th grade and high school students and educators.

The technical assistance must include, but is not limited to:

- A model for instruction that promotes digital literacy for students;
- A clearinghouse for information on the use of online learning resources, including best practices in the use of open educational resources and open-source textbooks; and
- Professional development and training for educators in the effective use of online learning resources, including open educational resources and open-source textbooks.

The program of technical assistance provided by the department may be used by those schools and educators who choose to provide instruction in digital literacy and who choose to use online learning resources, including best practices in the use of open educational resources and open-source textbooks. The program of technical assistance provided by the department must be available to all school administrative units in the State and posted on the department's publicly accessible website.

1.1.7. The State of Maine allows the State to procure equipment and services on behalf of

qualifying entities, including school districts.

Title 5: ADMINISTRATIVE PROCEDURES AND SERVICES

Part 4: FINANCE

Chapter 155: PURCHASES

Subchapter 1: GENERAL PROVISIONS

<http://www.mainelegislature.org/legis/statutes/5/title5sec1811.html>

Cooperative purchasing. To permit any political subdivision or school administrative district in the State or nonprofit free health care clinic that provides free primary or preventative services to make purchases of foodstuffs, materials, equipment and supplies through the Bureau of General Services, subject to such procedures, rules and regulations as may be prescribed by the director. This subsection applies to a municipality notwithstanding any provision in its municipal charter to the contrary;

1.2. Contract / Participating Addendum

Following on the award process of this RFP, the State of Maine anticipates signing one or more Participating Addenda with one or more of the selected / pre-qualified Bidders. Each Bidder selected by the State of Maine will be required to execute a Participating Addendum in the form of a State of Maine Agreement to Purchase Services (BP54-IT). A list of applicable Riders is as follows:

Rider A: Specification of Work to be Performed
Rider B-IT: Method of Payment and Other Provisions
Rider C: Exceptions to Rider B
Rider D: (optional; for use by Department)
Rider E: (optional; for use by Department)
Rider F: (optional; for use by Department)
Rider G: Identification of Country in Which Contracted Work Will Be Performed
(Additional Riders can be added as needed by the Department.)

The complete set of standard BP54-IT contract documents may be found on the Division of Purchases' website at the following link: <http://www.maine.gov/purchases/info/forms/BP54%20EO-IT.doc>.

1.3. Budget/Financial

The Maine Learning Technology Initiative is funded through the General Purpose Aid (GPA) fund that is appropriated by the Legislature in support of schools. The GPA fund is generally referred to as "State Subsidy" or "State Aid". Schools receive funding from GPA through a funding formula. Prior to subsidy calculations, the Commissioner of Education has the authority to allocate funds from GPA to pay for systemic programs like the MLTI. Historically, the State of Maine has paid for MLTI grades 7, 8, and teacher seats as well as wireless infrastructure for all 7-12 participating schools through this funding mechanism. It is the intent of the State of Maine to continue to do so.

1.4. Experience with 1:1

The Maine Learning Technology Initiative (MLTI) has been in operation since the spring of 2002. The initial program was determined through RFP #901001. Since then, all Maine public school students in grades 7 and 8 have participating in the program. In 2004, 30 Maine high schools began piloting high school 1:1 initiatives with MLTI. In 2006, the State issued RFP #1205143 and refreshed the program, replacing all devices and networks for all participating schools and added a small cadre of high schools and elementary grades at local cost. In 2009, the State renegotiated its contract with the awarded Bidder

of RFP #1205143 and expanded the program, replacing all devices and networks for all participating schools and significantly increased participation at the high school level. Currently the program continues to serve all public middle schools, over 55% of public high schools, and also includes a number of elementary grades as well as four (4) private/independent schools.

Throughout the past decade, the MLTI has continued to focus on supporting teachers and leaders through professional development. The MLTI has served as a model to districts, states, and countries all over the globe. Delegations from all over the globe have visited Maine specifically to visit MLTI schools. MIT's One Laptop Per Child initiative credits MLTI as their inspiration.

1.5. Broadband Infrastructure

Almost all Maine schools are members of the Maine School and Library Network (MSLN). MSLN is operated by Networkmaine, a unit of the University of Maine. Networkmaine provides broadband services including help desk and network management services to all member schools. For more information about Networkmaine, please see <http://www.networkmaine.net>.

BROADBAND CIRCUIT SPEEDS AT MLTI PARTICIPATING SCHOOLS

School MEDMS ID	School Name	Circuit Bandwidth	SAU MEDM S ID	Notes
1129	Acton Elementary School	10	1000	
1214	Adams School	10	1032	
1835	Airline Community School	10	1284	
1130	Alexander Elementary	10	1001	
1723	Alfred Elementary c/o Massabesic High School	10	1251	
1009	All Saints Catholic School	20	1308	
1132	Appleton Village School	10	1004	
1854	Arthur R. Gould School--MYC (Long Creek)	10	1296	
1593	Ashland Community High School	50	1226	
2619	Ashland District School	50	1226	
1221	Ashley Bryan School	10	1040	
1737	Athens Elementary School	10	1253	
1144	Auburn Middle School	200	1007	
1165	Bangor High School	1000	1011	
1170	Bath Middle School C/O Bath Regional Career and Technical Center BRCTC	20	3152	
1172	Bath Regional Vocational Center	100	3152	
1809	Bay Ridge Elementary	10	3136	
1173	Beals Elementary School	10	1014	
1822	Beatrice Rafferty School	10	1272	
1333	Beech Hill School	10	1125	
1601	Belfast Area High School	50	3166	
1174	Biddeford High School	100	1016	
1176	Biddeford Middle School	100	1016	
1178	Biddeford Regional Ctr of Tech	100	1016	
1179	Blue Hill Consolidated School	20	1017	

1952	Blue Hill Harbor School	54	3154	
1500	Bonny Eagle High School	100	1200	
1495	Bonny Eagle Middle School	100	1200	
1832	Boothbay Region Elem School	100	1281	
1831	Boothbay Region High School	100	1281	
1452	BRCTC	10	3152	
1186	Brewer High School	1000	1021	
1185	Brewer Middle School	1000	1021	
1188	Bristol Consolidated School	10	1023	
1189	Brooklin School	10	1024	
1190	Brooksville Elementary School	10	1025	
1342	Bruce M Whittier Middle School	100	3163	
1196	Brunswick High School	1000	1026	
1195	Brunswick Jr High School	1000	1026	
1622	Buckfield Jr-Sr High School	100	3159	
1857	Bucksport Middle School	50	3170	
1203	Calais High School	50	1028	
1852	Camden Hills Regional H S	200	1294	
1579	Camden-Rockport Middle School	20	1222	
1206	Cape Elizabeth School Department	100	1029	
1207	Cape Elizabeth School Department	100	1029	
1153	Capital Area Technical Center	100	1008	Shared with Cony High School
1565	Caravel Middle School	50	1217	
1212	Caribou High School	100	3174	
1211	Caribou Middle School	100	3174	
1213	Caribou Regional Applied Tech Ctr	100	3174	
1564	Carmel Elementary School	10	1217	
1056	Carrabassett Valley Academy	20	1355	
1879	Carrabec Community School	20	1265	
1795	Carrabec High School	50	1265	
1295	Carrie Ricker Middle School	20	3157	
1904	Casco Bay High School	100	1134	
1572	Cave Hill School	10	3169	
1332	Center Drive School	10	1124	
1637	Central Aroostook Jr-Sr H S	50	1236	
1764	Central High School	200	1258	
1765	Central Middle School	20	1258	
1216	Charlotte Elementary School	10	1035	
1217	Chelsea Elementary School	20	3160	
1616	Cherryfield Elementary	10	1231	
1218	China Middle School	50	3164	
1299	Coastal Wash Cty Inst of Tech	10	1095	
1166	Conners-Emerson School	1000	1012	
1149	Cony High School	100	1008	
1615	Daniel W Merritt School	10	1231	
1215	Dawn F Barnes Elementary Sch	10	1033	
1223	Dedham School	10	1046	
1843	Deer Isle-Stonington Elementary	10	1289	
1842	Deer Isle-Stonington High Sch	50	1289	

1357	Deering High School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1650	Dexter Regional High School	100	1240	
1555	Dirigo High School	100	3159	WAN connection to Dirigo MS
1556	Dirigo Middle School	100	3159	
1305	Dr Lewis S Libby School	10	1106	
1225	Durham Central School	20	3158	
1527	East Grand School	50	1208	
1840	East Range II CSD School	10	1288	
1229	Easton Elementary School	100	1053	
1228	Easton Junior-Senior High School	50	1053	
1230	Eastport Elementary School	10	1054	
1815	Edmunds Consolidated School	10	1269	
1142	Edward Little High School	200	1007	
1409	Ella Lewis School	10	3169	
1147	Ella R Hodgkins School	100	1008	Shared with Cony High School
2601	Ellsworth Elementary-Middle School	1000	3169	
1236	Ellsworth High School	1000	3169	
1811	Elm Street School	10	3129	
1033	Erskine Academy	100	1332	
1621	Etna-Dixmont School	10	3165	
2634	Falmouth Elementary School	200	1057	
1240	Falmouth High School	200	1057	
1241	Falmouth Middle School	200	1057	
1522	Forest Hills Consolidated School	50	1206	
1551	Fort Fairfield Middle/High School	100	1214	
1575	Fort Kent Community High School	100	1221	
1812	Fort O'Brien School	10	3137	
1509	Foster Regional Applied Tech Ctr	50	1203	
1036	Foxcroft Academy		1335	
1456	Frank H Harrison Middle School	100	1190	
1136	Franklin Alternative School	200	1007	
1244	Freeport High School	200	3158	
1245	Freeport Middle School	20	3158	
1296	Frenchboro ES c/o Superintendents Office	10	1094	
1515	Gardiner Area High School	50	1205	
1516	Gardiner Regional Middle School	20	1205	
1021	George Stevens Academy	50	1320	
1682	Georges Valley High School	100	3161	
1248	Glenburn Elementary School	20	3171	
1253	Gorham High School	100	1065	
1858	Gorham Middle School	100	1065	
1018	Gould Academy	50	1317	
1855	Governor Baxter School for the Deaf	50	1297	
1529	Gray-New Gloucester High School	100	1209	
1530	Gray-New Gloucester Middle School	100	1209	
1845	Great Salt Bay Community School	100	1290	
1687	Greely High School	200	1245	

1875	Greely Middle School	200	1245	
1258	Greenville High School	50	2646	
1534	Hall-Dale High School	200	3156	
1535	Hall-Dale Middle School	100	3156	
1558	Hampden Academy	200	1216	
1237	Hancock County Technical Center	1000	3169	
1260	Hancock Grammar School	10	3169	
1619	Harrington Elementary School	50	1231	
1051	Hebron Academy	100	1350	
1257	Helen S Dunn Elementary School	10	1069	
1264	Hermon High School	120	1074	Shared with Hermon Middle School
1263	Hermon Middle School	120	1074	Shared with Hermon High School
1591	Hichborn Middle School	20	1225	
1779	Hodgdon High School	50	1262	
1761	Holbrook School	10	1257	
1265	Hope Elementary	10	1077	
1274	Horace Mitchell Primary School	10	1085	
1582	Houlton High School	1000	1223	
1584	Houlton Junior High School	100	1223	
1820	Indian Island School	20	1270	
1821	Indian Township School	4.6	1271	Three bonded T1s, managed by the Bureau of Indian Affairs
1266	Isle au Haut Rural School	10	1078	
1267	Islesboro Central School	10	1079	
1163	James F. Doughty School	1000	1011	
1271	Jefferson Village School	20	1081	
1008	John Bapst Memorial High School	1000	1307	
1272	Jonesboro Elementary School	10	1082	
1273	Jonesport Elementary School	50	1292	Shared with Jonesport-Beals High School
1847	Jonesport-Beals High School	50	1292	
1365	Jordan-Small School	100	3162	
1571	Katahdin Middle High School	50	3199	
1133	Kennebunk Elementary School	10	3167	
1784	Kennebunk Elementary School	10	3167	
1786	Kennebunk Elementary School	200	3167	
1883	Kennebunk Elementary school	200	3167	
1783	Kennebunk High School	200	3167	
1353	King Middle School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1732	Kingfield Elementary School	10	1252	
1753	Lake Region High School	100	1255	
1754	Lake Region Middle School	100	1255	
1756	Lake Region Vocational Center	10	1255	
1278	Lamoine Consolidated School	10	3169	
1676	Lawrence High School	100	1243	
1677	Lawrence Jr High School	100	1243	
1693	Leavitt Area High School	50	1246	

1057	Lee Academy	50	1356	
1325	Leonard Middle School	1000	3172	
1283	Lewiston High School	200	1088	Same building as Lewiston Regional Technology Ctr
1285	Lewiston Middle School	1000	1088	WAN connection to Lewiston HS/Regional Tech Ctr
1287	Lewiston Regional Technology Ctr	200	1088	
1288	Limestone Community School	100	3174	
1066	Lincoln Academy	50	1364	
1354	Lincoln Middle School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1289	Lincolville Central School	10	1091	
1724	Line Elementary c/o Massabesic High School	10	1251	
1293	Lisbon High School	50	1092	
1319	Loranger Middle School	20	3168	Shared with Old Orchard Beach High School
1550	Lubec Consolidated School	50	1213	
1726	Lyman Elementary c/o Massabesic High School	10	1251	
1355	Lyman Moore Middle School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1688	Mabel I Wilson School	200	1245	
1298	Machias Memorial High School	50	1095	
1300	Madawaska Middle High School	100	1097	
1740	Madison Area Memorial High School	50	1253	
1741	Madison Junior High School	50	1253	
1403	Mahoney Middle School	200	1155	
1072	Maine Central Institute	50	1369	
1853	Maine School of Science & Mathematics	100	1295	
1829	Maine Vocational Region 10	10	1279	
1837	Maranacook Community High Sch	50	3173	
1838	Maranacook Middle School	50	3173	
1611	Marshwood High School	200	1229	
1608	Marshwood Middle School	50	1229	
1728	Massabesic High School	100	1251	
1729	Massabesic Middle School	200	1251	
1246	Mast Landing School	20	3158	
1769	Matinicus Elementary School	10	1259	
1771	Mattanawcook Academy	50	3175	
1772	Mattanawcook Jr High School	50	3175	
1948	Medomak Middle School	200	1234	
1628	Medomak Valley High School	200	1234	
1304	Medway Middle School	10	1105	
1407	Memorial Middle School	200	1155	
1660	Messalonskee High School	1000	3164	
1862	Messalonskee Middle School	1000	3164	

1827	Mid-Coast Sch of Tech-Region 8	10	1277	
1422	Mid-Maine Technical Center	1000	1170	WAN connection to Waterville Senior High School
1785	Middle School of the Kennebunks	200	3167	
1620	Milbridge Elementary School	10	1231	
1778	Mill Pond Elementary School	50	1262	
1307	Millinocket Middle School	20	1107	
1791	Molly Ockett Middle School	20	1264	
1310	Monhegan Island School	10	1109	
1312	Monmouth Academy	100	3156	
1313	Monmouth Middle School	100	3156	
1171	Morse High School C/O Bath Regional Career and Technical Center BRCTC	100	3152	
1243	Morse Street School	20	3158	
1834	Mount Desert Island High School	1000	1283	
1586	Mount Jefferson Jr. High	20	1224	
1641	Mountain Valley High School	100	3159	Shared with Mountain Valley Middle School
1638	Mountain Valley Middle School	100	3159	Shared with Mountain Valley High School
1839	Mountain View School	20	3169	
1856	Mountain View Youth Development Center	20	1298	
1736	Mt Abram Regional High School	50	1252	
1805	Mt Ararat High School	200	1266	
1807	Mt Ararat Middle School	200	1266	
1507	Mt Blue High School	200	1203	
1506	Mt Blue Middle School	50	1203	
1314	Mt Desert Elementary School	1000	1112	
1475	Mt View High School	50	1197	
1477	Mt View Middle School	50	1197	
1618	Narraguagus High School	50	1231	
1316	New Sweden Consolidated School	10	1116	
1826	No Penobscot Tech-Region 3	20	1276	
1750	Noble High School	200	1254	
1745	Noble Middle School	20	1254	
1317	Nobleboro Central School	10	1117	
1669	Nokomis Regional High School	50	3165	
1503	North Haven Community School	10	1201	
1689	North Yarmouth Memorial School	10	1245	
1846	Oak Hill High School	200	3157	
1878	Oak Hill Middle School	20	3157	
2630	Oceanside High School East	100	3161	
2629	Oceanside High School West	100	3161	
1320	Old Orchard Beach High School	20	3168	Shared with Loranger Middle School
1326	Old Town High School	1000	3172	
1329	Orono High School	1000	3171	
1330	Orono Middle School	1000	3171	

1546	Oxford Hills Comprehensive High School	200	1211	
1545	Oxford Hills Middle School	100	1211	
1830	Oxford Hills Technical School	200	1280	
1334	Palermo Consolidated School	10	3160	
1335	Pembroke Elementary School	10	1127	
1408	Pemetic Elementary School	1000	1156	
1873	Peninsula CSD School	10	3169	
1336	Penobscot Community School	10	1128	
1590	Penobscot Valley High School	20	1225	
1634	Penquis Valley High School	50	1235	
1337	Perry Elementary School	10	1129	
1292	Philip W Sugg Middle School	20	1092	
1734	Phillips Middle School	10	1252	
1480	Piscataquis Community High School	200	1198	
1481	Piscataquis Community Middle School	200	1198	
1341	Poland Regional High School	100	3163	
1361	Portland Arts & Technology H S	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1356	Portland High School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1468	Presque Isle Alternative Education	50	1196	
1466	Presque Isle High School	50	1196	
1465	Presque Isle Middle School	20	1196	
1469	Presque Isle Reg Career & Tech Ctr	50	1196	
1363	Princeton Elementary School	10	1136	
1523	Quimby Middle School	20	1207	
1364	Rangeley Lakes Regional School	50	3184	
1560	Reeds Brook Middle School	20	1216	
1823	Region Two Sch of Applied Tech	1000	1273	
1145	RETC/SOS	200	1007	
1370	Richmond High School	100	3156	
1371	Richmond Middle School	100	3156	
1652	Ridge View Community School	100	3179	
1261	Ridgeview Community school	10	1073	
1372	Robbinston Grade School	10	1143	
1277	Robert W Traip Academy	200	1085	
1488	Rockland District High School	100	3161	
1489	Rockland District Middle School	100	3161	
1297	Rose M Gaffney School	50	1095	
1806	RSU 75 District Office for Woodside Elementary	10	1266	
1376	Saco Middle School	20	3168	
1863	Saco Transition Program	10	3168	
1714	Sacopee Valley High School	200	1249	
1941	Sacopee Valley Middle School	200	1249	
1902	SAD 53 Alternative Education	20	1247	

1563	Samuel L Wagner Middle School	10	1216	
1383	Sanford High School	50	1148	
1382	Sanford Jr High School	20	1148	
1386	Sanford Regional Vocational Ctr	50	1148	
1390	Scarborough High School	50	1149	
1389	Scarborough Middle School	50	1149	
1227	Schenck High School	20	1052	
1828	School of Applied Tech-Region 9	100	1278	
1720	Searsport District High School	50	3166	
1719	Searsport District Middle School	50	3166	
1670	Sebasticook Valley Middle School	100	3165	
1393	Sedgwick Elementary School	10	1150	
1776	SeDoMoCha Middle School	20	1261	
1727	Shapleigh Memorial School c/o Massabesic High School	10	1251	
1275	Shapleigh Middle School	20	1085	
1231	Shead High School	50	1054	
1706	Skowhegan Area High School	200	1248	
1709	Skowhegan Area Middle School	200	1248	
1710	Somerset Career and Technical Center	200	1248	
1666	Somerset Valley Middle School	100	3165	
1395	Somerville Elementary School	10	3160	
1396	South Bristol Elementary School	10	1153	
1404	South Portland High School	200	1155	
1836	Southern Aroostook Community School	50	3199	
2636	Spruce Mountain Middle School	100	3198	
1204	St Croix Regional Technical Center	20	1028	
1680	St George School	100	3161	
1595	St John Valley Technology Center	10	1227	
1308	Stearns High School	20	1107	
1731	Stratton Elementary School	10	1252	
1735	Strong Elementary School	10	1252	
1833	Sumner Memorial High School	50	3169	
1199	Superintendent Office -Bucksport High School	50	3170	
1411	Surry Elementary School	10	1159	
1566	Suzanne Smith Elementary	10	1217	
1808	Swans Island Elementary School	10	1267	
1645	Telstar High School	50	1238	
1646	Telstar Middle School	50	1238	
1683	Thomaston Grammar School	100	3161	
1098	Thornton Academy	200	1395	
1412	Tremont Consolidated School	1000	1162	
1413	Trenton Elementary School	1000	1163	
1653	Tri-County Technical Center	100	1240	
1692	Tripp Middle School	200	1246	
1602	Troy A Howard Middle School	20	3166	
1938	Union 132 Secondary School	10	3160	

1824	United Technologies Ctr-Region 4	100	1274	
1524	Upper Kennebec Valley Memorial HS	50	1207	
1574	Valley Rivers Middle School	100	1221	Wireless Microwave connection to Fort Kent High School
2647	Valley Rivers Middle School	100	1221	
1567	Van Buren District Secondary Sch	50	1218	
1944	Van Buren Elementary	50	1218	
1569	Van Buren Regional Technology Ctr	50	1218	
1414	Vanceboro Elementary School	10	1165	
1415	Vassalboro Community School	50	1166	
1416	Veazie Community School	1000	3171	
1860	Vinalhaven School	50	1202	
1825	Waldo County Tech Ctr-Region 7	10	1275	
1699	Warsaw Middle School	20	1247	
1649	Washburn District Elem School	50	1239	
1648	Washburn District High School	50	1239	
1037	Washington Academy	200	1336	
1730	Waterboro Elementary c/o Massabesic High School	200	1251	
1421	Waterville Junior High School	1000	1170	
1419	Waterville Senior High School	1000	1170	
1850	Wells High School	100	1293	
1849	Wells-Ogunquit Junior High School	100	1293	
1425	Wesley Elementary School	10	1173	
1360	West School	100	1134	WAN connection to city-wide LAN that has a 10 Gbps burstable connection
1430	Westbrook High School	1000	1175	Shared with Westbrook Regional Technology Ctr
1429	Westbrook Middle School	1000	1175	Shared with Westbrook Regional Technology Ctr
1433	Westbrook Regional Technology Ctr	1000	1175	
1434	Whitefield Elementary School	10	3160	
1813	Whiting Village School	10	3138	
1164	William S Cohen School	1000	1011	
1435	Windham High School	100	3162	
1437	Windham Middle School	100	3162	
1439	Windham Middle School	100	3162	
1440	Windsor Elementary School	10	3160	
1441	Winslow High School	1000	1183	
1442	Winslow Junior High School	1000	1183	
1446	Winthrop High School	200	1185	
1447	Winthrop Middle School	20	1185	
1449	Wiscasset High School	50	3160	
1448	Wiscasset Middle School	20	3160	
1596	Wisdom Middle High School	50	1227	
1451	Woodland Consolidated School	10	1187	
1154	Woodland Jr-Sr High School	50	1009	
1455	Yarmouth Elementary School	100	1190	

1454	Yarmouth High School	100	1190	
1459	York High School	100	1191	
1458	York Middle School	100	1191	

A downloadable copy of these broadband data is available at
http://www.maine.gov/mlti/rfp/201210412_msln.xlsx

1.6. Wireless Network Infrastructure

Most current MLTI participating schools have a wireless network infrastructure that was installed in 2009 by the current Provider. A small number of participating schools do not have the same wireless infrastructure. It is likely that many of these schools will require new wireless networks.

MLTI participating schools that do not have MLTI-installed wireless networks:

- Indian Island School
- Indian Township School
- Lawrence High School
- Leavitt Area High School
- Lee Academy
- Lewiston High School
- Lewiston Regional Technology Center
- Maine School of Science and Mathematics
- Mt View High School
- Mt View Middle School
- Waldo County Technical Center
- West School

NETWORK EQUIPMENT AT EXISTING MLTI-INSTALLED WIRELESS NETWORKS

School MEDMS ID	School Name	Town	Device	Quantity
1008	John Bapst Memorial High School	Bangor	Cisco 2960 Switch	3
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	26
1021	George Stevens Academy	Blue Hill	Cisco 2106 Controller	1
			Cisco 2960 Switch	1
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1036	Foxcroft Academy	Dover-Foxcroft	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1037	Washington Academy	East Machias	Cisco 2960 Switch	3
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1066	Lincoln Academy	Newcastle	Cisco 2960 Switch	2
			Cisco 3560 Switch	8

			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1072	Maine Central Institute	Pittsfield	Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1098	Thornton Academy	Saco	Cisco 2960 Switch	2
			Cisco 3560 Switch	6
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	59
1129	Acton Elementary School	Acton	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1130	Alexander Elementary	Alexander	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1132	Appleton Village School	Appleton	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1136	Franklin Alternative School	Auburn	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1142	Edward Little High School	Auburn	Cisco 2960 Switch	2
			Cisco 3560 Switch	4
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	46
1144	Auburn Middle School	Auburn	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1145	RETC/SOS	Auburn	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1149	Cony High School	Augusta	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
1153	Capital Area Technical Center	Augusta	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1154	Woodland Jr-Sr High School	Baileyville	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1163	James F. Doughty School	Bangor	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	25
1164	William S Cohen School	Bangor	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1165	Bangor High School	Bangor	Cisco 2960 Switch	2
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	47
1166	Conners-Emerson School	Bar Harbor	Cisco 3560 Switch	2
			Cisco 4402 Controller	1

			Cisco Aironet 1142 WAP	9
1170	Bath Middle School	Bath	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1171	Morse High School	Bath	Cisco 2960 Switch	2
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	43
1173	Beals Elementary School	Beals	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1174	Biddeford High School	Biddeford	Cisco 2960 Switch	2
			Cisco 3560 Switch	7
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	42
1176	Biddeford Middle School	Biddeford	Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1178	Biddeford Regional Ctr of Tech	Biddeford	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1179	Blue Hill Consolidated School	Blue Hill	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1185	Brewer Middle School	Brewer	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	14
1186	Brewer High School	Brewer	Cisco 2960 Switch	2
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1188	Bristol Consolidated School	Pemaquid	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1189	Brooklin School	Brooklin	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1190	Brooksville Elementary School	Brooksville	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1195	Brunswick Jr High School	Brunswick	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	22
1196	Brunswick High School	Brunswick	Cisco 2960 Switch	4
			Cisco 3560 Switch	2
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	50
1199	Bucksport High School	Bucksport	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	25

1203	Calais High School	Calais	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1204	St Croix Regional Technical Center	Calais	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	5
1206	Cape Elizabeth Middle School	Cape Elizabeth	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1207	Cape Elizabeth High School	Cape Elizabeth	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1211	Caribou Middle School	Caribou	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1212	Caribou High School	Caribou	Cisco 2960 Switch	1
			Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1213	Caribou Regional Applied Tech Ctr	Caribou	Cisco Aironet 1142 WAP	9
1214	Adams School	Castine	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1215	Dawn F Barnes Elementary Sch	Caswell	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1216	Charlotte Elementary School	Charlotte	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1217	Chelsea Elementary School	Chelsea	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1218	China Middle School	South China	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1221	Ashley Bryan School	Mount Desert	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1223	Dedham School	Dedham	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5
1225	Durham Central School	Durham	Cisco 2960 Switch	3
			Cisco 3560 Switch	2
			Cisco 4402 Controller	2
			Cisco Aironet 1142 WAP	21
1227	Schenck High School	East Millinocket	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1228	Easton Junior-Senior High School	Easton	Cisco 2106 Controller	1
			Cisco 3560 Switch	1

			Cisco Aironet 1142 WAP	5
1230	Eastport Elementary School	Eastport	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1231	Shed High School	Eastport	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1235	Ellsworth Middle School	Ellsworth	Cisco 2960 Switch	2
			Cisco 3560 Switch	5
			Cisco 4402 Controller	2
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	42
1236	Ellsworth High School	Ellsworth	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	30
1237	Hancock County Technical Center	Ellsworth	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1240	Falmouth High School	Falmouth	Cisco 2960 Switch	3
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	34
1241	Falmouth Middle School	Falmouth	Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	24
1244	Freeport High School	Freeport	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1245	Freeport Middle School	Freeport	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1248	Glenburn Elementary School	Glenburn	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1253	Gorham High School	Gorham	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	37
1257	Helen S Dunn Elementary School	Greenbush	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5
1258	Greenville High School	Greenville	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1260	Hancock Grammar School	Hancock	Cisco 2106 Controller	1
			Cisco 3560 Switch	1

			Cisco Aironet 1142 WAP	4
1261	Harmony Elementary	Harmony	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1263	Hermon Middle School	Hermon	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	10
1264	Hermon High School	Hermon	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	27
1265	Hope Elementary	Hope	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1266	Isle au Haut Rural School	Isle au Haut	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1267	Islesboro Central School	Islesboro	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1268	Jay High School	Jay	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1270	Jay Middle School	Jay	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1271	Jefferson Village School	Nobleboro	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1272	Jonesboro Elementary School	Jonesboro	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1273	Jonesport Elementary School	Jonesport	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1274	Horace Mitchell Primary School	Kittery Point, Kittery	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	14
1275	Shapleigh Middle School	Kittery	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1277	Robert W Traip Academy	Kittery	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1278	Lamoine Consolidated School	Lamoine	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1285	Lewiston Middle School	Lewiston	Cisco 2960 Switch	1
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1288	Limestone Community School	Limestone	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12

1289	Lincolntonville Central School	Lincolntonville	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1292	Philip W Sugg Middle School	Lisbon/Lisbon Falls	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1293	Lisbon High School	Lisbon Falls	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1295	Carrie Ricker Middle School	Litchfield	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1296	Frenchboro Elementary School	Mount Desert	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1297	Rose M Gaffney School	Machias	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	4
1298	Machias Memorial High School	Machias	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	10
1299	Coastal Wash Cty Inst of Tech	Machias	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1300	Madawaska Middle High School	Madawaska	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	33
1303	Elm Street School	Mechanic Falls	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1304	Medway Middle School	Medway	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1305	Dr Lewis S Libby School	Milford	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	6
1308	Stearns High School	Millinocket	Cisco 2106 Controller	1
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1309	Minot Consolidated School	Minot	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1310	Monhegan Island School	Port Clyde	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1312	Monmouth Academy	Hallowell	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1313	Monmouth Middle School	Hallowell	Cisco 3560 Switch	2
			Cisco 4402 Controller	1

			Cisco Aironet 1142 WAP	13
1314	Mt Desert Elementary School	Northeast Harbor	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1316	New Sweden Consolidated School	New Sweden	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1317	Nobleboro Central School	Nobleboro	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	5
1319	Loranger Middle School	Old Orchard Beach	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1320	Old Orchard Beach High School	Old Orchard Beach	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1325	Leonard Middle School	Old Town	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1326	Old Town High School	Old Town	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	29
1327	Orland Consolidated School	Orland	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1329	Orono High School	Orono	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1332	Center Drive School	Orrington	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1333	Beech Hill School	Otis	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1334	Palermo Consolidated School	Palermo	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	3
1335	Pembroke Elementary School	Pembroke	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	4
1336	Penobscot Community School	Penobscot	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1337	Perry Elementary School	Perry	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1341	Poland Regional High School	Poland	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	35
1353	King Middle School	Portland	Cisco 2960 Switch	1

			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1354	Lincoln Middle School	Portland	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	24
1355	Lyman Moore Middle School	Portland	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	25
1356	Portland High School	Portland	Cisco 2960 Switch	4
			Cisco 3560 Switch	2
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	55
1357	Deering High School	Portland	Cisco 2960 Switch	1
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	42
1363	Princeton Elementary School	Princeton	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1364	Rangeley Lakes Regional School	Rangeley	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1365	Jordan-Small School	Raymond	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	14
1370	Richmond High School	Hallowell	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1372	Robbinston Grade School	Robbinston	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1376	Saco Middle School	Saco	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1382	Sanford Jr High School	Sanford	Cisco 2960 Switch	1
			Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	27
1383	Sanford High School	Sanford	Cisco 2960 Switch	3
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	47
1389	Scarborough Middle School	Scarborough	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
1390	Scarborough High School	Scarborough	Cisco 2960 Switch	4
			Cisco 3560 Switch	4
			Cisco 4404 Controller	1
1393	Sedgwick Elementary School	Sedgwick	Cisco 2106 Controller	1

			Cisco Aironet 1142 WAP	3
1395	Somerville Elementary School	Somerville	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1396	South Bristol Elementary School	South Bristol	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1403	Mahoney Middle School	South Portland	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1404	South Portland High School	South Portland	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	46
1407	Memorial Middle School	South Portland	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1408	Pemetic Elementary School	Southwest Hbr	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	5
1409	Ella Lewis School	Steuben	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	4
1411	Surry Elementary School	Surry	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1412	Tremont Consolidated School	Tremont	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1413	Trenton Elementary School	Trenton	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5
1414	Vanceboro Elementary School	Vanceboro	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1415	Vassalboro Community School	Vassalboro	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1416	Veazie Community School	Veazie	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1417	Wales Central School	Wales	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1419	Waterville Senior High School	Waterville	Cisco 2960 Switch	1
			Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	34
1421	Waterville Junior High School	Waterville	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1422	Mid-Maine Technical Center	Waterville	Cisco 3560 Switch	2

			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1425	Wesley Elementary School	Wesley	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1429	Westbrook Middle School	Westbrook	Cisco 2960 Switch	2
			Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	41
1430	Westbrook High School	Westbrook	Cisco 2960 Switch	1
			Cisco 3560 Switch	8
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	55
1434	Whitefield Elementary School	Whitefield	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1435	Windham High School	Windham	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	48
1437	Windham Middle School	Windham	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1440	Windsor Elementary School	Windsor	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	5
1441	Winslow High School	Winslow	Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1442	Winslow Junior High School	Winslow	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1446	Winthrop High School	Winthrop	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1447	Winthrop Middle School	Winthrop	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1448	Wiscasset Middle School	Wiscasset	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	10
1449	Wiscasset High School	Wiscasset	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1451	Woodland Consolidated School	Woodland	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5

1452	Woolwich Central School	Woolwich	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1454	Yarmouth High School	Yarmouth	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	27
1456	Frank H Harrison Middle School	Yarmouth	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1458	York Middle School	York	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	24
1459	York High School	York	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1465	Presque Isle Middle School	Presque Isle	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1466	Presque Isle High School	Presque Isle	Cisco 2960 Switch	2
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	40
1468	Presque Isle Alternative Education	Presque Isle	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	1
1480	Piscataquis Community High School	Guilford	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1481	Piscataquis Community Middle School	Guilford	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
1488	Rockland District High School	Rockland	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1489	Rockland District Middle School	Rockland	Cisco 2106 Controller	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1495	Bonny Eagle Middle School	Buxton	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1500	Bonny Eagle High School	Standish	Cisco 2960 Switch	3
			Cisco 3560 Switch	7
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	49
1503	North Haven Community School	North Haven	Cisco 3560 Switch	2

			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1506	Mt Blue Middle School	Farmington	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	25
1507	Mt Blue High School	Farmington	Cisco 3560 Switch	8
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	36
1515	Gardiner Area High School	Gardiner	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	36
1516	Gardiner Regional Middle School	Gardiner	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1522	Forest Hills Consolidated School	Jackman	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1523	Quimby Middle School	Bingham	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	5
1524	Upper Kennebec Valley Memorial HS	Bingham	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1527	East Grand School	Danforth	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1529	Gray-New Gloucester High School	Gray	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	37
1530	Gray-New Gloucester Middle School	Gray	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	22
1534	Hall-Dale High School	Hallowell	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1535	Hall-Dale Middle School	Hallowell	Cisco 3560 Switch	1
1545	Oxford Hills Middle School	South Paris	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	24
1546	Oxford Hills Comprehensive High School	South Paris	Cisco 2960 Switch	3
			Cisco 3560 Switch	2
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	56
1550	Lubec Consolidated School	Lubec,	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	13
1551	Fort Fairfield Middle/High School	Fort Fairfield	Cisco 2960 Switch	1

			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1555	Dirigo High School	Dixfield	Cisco 3560 Switch	3
			Cisco 4402 Controller	2
			Cisco Aironet 1142 WAP	19
1556	Dirigo Middle School	Dixfield	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1558	Hampden Academy	Hampden	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1560	Reeds Brook Middle School	Hampden	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1563	Samuel L Wagner Middle School	Winterport	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1565	Caravel Middle School	Carmel	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1567	Van Buren District Secondary Sch	Van Buren	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	18
1571	Katahdin Middle High School	Stacyville	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1572	Cave Hill School	Eastbrook	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1574	Fort Kent Elementary School	Fort Kent	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	10
1575	Fort Kent Community High School	Fort Kent	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	22
1579	Camden-Rockport Middle School	Camden	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1582	Houlton High School	Houlton	Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	26
1586	Mount Jefferson Jr. High	Lee	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	6
1590	Penobscot Valley High School	Howland	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1

			Cisco Aironet 1142 WAP	17
1591	Hichborn Middle School	Howland	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1593	Ashland Community High School	Ashland	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1595	St John Valley Technology Center	Frenchville	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	4
1596	Wisdom Middle High School	Saint Agatha	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1601	Belfast Area High School	Belfast	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1602	Troy A Howard Middle School	Belfast	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1608	Marshwood Middle School	Eliot	Cisco 2106 Controller	1
			Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	29
1611	Marshwood High School	South Berwick	Cisco 2960 Switch	5
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	44
1613	Livermore Falls High School	Livermore Falls	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1614	Livermore Falls Middle School	Livermore	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1615	Daniel W Merritt School	Addison	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1616	Cherryfield Elementary	Cherryfield	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1618	Narraguagus High School	Harrington	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1619	Harrington Elementary School	Harrington	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1620	Milbridge Elementary School	Milbridge	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2

1621	Etna-Dixmont Elementary School	Etna	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5
1622	Buckfield Jr-Sr High School	Buckfield	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1628	Medomak Valley High School	Waldoboro	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1634	Penquis Valley High School	Milo	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1637	Central Aroostook Jr-Sr H S	Mars Hill	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	14
1638	Mountain Valley Middle School	Mexico	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1641	Mountain Valley High School	Rumford	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1645	Telstar High School	Bethel	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	26
1648	Washburn District High School	Washburn	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1649	Washburn District Elem School	Washburn	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1650	Dexter Regional High School	Dexter	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1652	Ridge View Community School	Dexter	Cisco 2106 Controller	1
			Cisco 2960 Switch	2
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1653	Tri-County Technical Center	Dexter	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1660	Messalonskee High School	Oakland	Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	36
1666	Somerset Valley M.S.	Hartland	Cisco 3560 Switch	1
			Cisco 4402 Controller	1

			Cisco Aironet 1142 WAP	11
1669	Nokomis Regional High School	Newport	Cisco 2960 Switch	1
			Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	34
1670	Sebasticook Valley M.S.	Newport	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1677	Lawrence Jr High School	Fairfield	Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	22
1680	St George School	Saint George/Tenants Harbor	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1682	Georges Valley High School	Thomaston	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1683	Thomaston Grammar School	Thomaston	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1687	Greely High School	Cumberland Center	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	40
1692	Tripp Middle School	Turner	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1699	Warsaw Middle School	Pittsfield	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1706	Skowhegan Area High School	Skowhegan	Cisco 2960 Switch	3
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	41
1709	Skowhegan Area Middle School	Skowhegan	Cisco 2960 Switch	1
			Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	34
1714	Sacopee Valley High School	Hiram	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1720	Searsport District High School	Searsport	Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1728	Massabesic High School	Waterboro	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	2
			Cisco Aironet 1142 WAP	46
1729	Massabesic Middle School	Waterboro	Cisco 2960 Switch	1

			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	26
1731	Stratton Elementary School	Stratton	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1732	Kingfield Elementary School	Kingfield	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1734	Phillips Middle School	Phillips	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1735	Strong Elementary School	Strong	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1736	Mt Abram Regional High School	Strong	Cisco 2960 Switch	2
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1737	Athens Elementary School	Athens	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1740	Madison Area Memorial High School	Madison	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1741	Madison Junior High School	Madison	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1745	Noble Middle School	North Berwick	Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	25
1750	Noble High School	North Berwick	Cisco 3560 Switch	14
			Cisco 4404 Controller	1
			Cisco Aironet 1142 WAP	65
1753	Lake Region High School	Naples	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	28
1754	Lake Region Middle School	Naples	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1756	Lake Region Vocational Center	Naples	Cisco 2106 Controller	1
			Cisco 3560 Switch	2
			Cisco Aironet 1142 WAP	6
1758	Pownal Elementary School	Pownal	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	4
1761	Holbrook School	Holden	Cisco 3560 Switch	1

			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1764	Central High School	East Corinth	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1765	Central Middle School	Corinth	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1769	Matinicus Elementary School	Matinicus Isle	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1771	Mattanawcook Academy	Lincoln	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1772	Mattanawcook Jr High School	Lincoln	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	22
1776	SeDoMoCha Middle School	Dover Foxcroft	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	32
1778	Mill Pond Elementary School	Hodgdon/Houlton	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1779	Hodgdon High School	Hodgdon	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1783	Kennebunk High School	Kennebunk	Cisco 3560 Switch	5
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	31
1785	Middle School of the Kennebunks	Kennebunk	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	23
1791	Molly Ockett Middle School	Fryeburg	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1795	Carrabec High School	North Anson	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	17
1805	Mt Ararat High School	Topsham	Cisco 2960 Switch	1
			Cisco 3560 Switch	6
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	39
1807	Mt Ararat Middle School	Topsham	Cisco 2960 Switch	1
			Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	38
1808	Swans Island Elementary School	Mt. Desert Island,	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2

1809	Bay Ridge Elementary	Cutler	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1811	Elm Street School	East Machias	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1812	Fort O'Brien School	Machiasport	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1813	Whiting Village School	Whiting	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1815	Edmunds Consolidated School	Edmunds Twp	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1822	Beatrice Rafferty School	Pleasant Point	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	6
1823	Region Two Sch of Applied Tech	Houlton	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	6
1826	No Penobscot Tech-Region 3	Lincoln	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1827	Mid-Coast Sch of Tech-Region 8	Rockland	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1828	School of Applied Tech-Region 9	Mexico	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	15
1829	Maine Vocational Region 10	Brunswick	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1831	Boothbay Region High School	Boothbay Harbor	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1832	Boothbay Region Elem School	Boothbay Harbor	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1833	Sumner Memorial High School	Sullivan	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	16
1834	Mount Desert Island High School	Mount Desert	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	33
1835	Airline Community School	Aurora	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	1
1836	Southern Aroostook Community School	Dyer Brook/Island Falls	Cisco 2960 Switch	1
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	21
1837	Maranacook Community High Sch	Readfield	Cisco 3560 Switch	3
			Cisco 4402 Controller	1

			Cisco Aironet 1142 WAP	23
1838	Maranacook Middle School	Readfield	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	20
1839	Mountain View School	Sullivan	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	5
1840	East Range II CSD School	Topsfield	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	3
1842	Deer Isle-Stonington High Sch	Deer Isle	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1843	Deer Isle-Stonington Elementary	Deer Isle, ME	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	12
1845	Great Salt Bay Community School	Damariscotta	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	10
1846	Oak Hill High School	Sabattus	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	27
1847	Jonesport-Beals High School	Jonesport	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1849	Wells-Ogunquit Junior High School	Wells	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19
1850	Wells High School	Wells	Cisco 2960 Switch	1
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	24
1852	Camden Hills Regional H S	Rockport	Cisco 2960 Switch	1
			Cisco 3560 Switch	7
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	35
1855	Governor Baxter School for the Deaf	Falmouth	Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1857	Bucksport Middle School	Bucksport	Cisco 3560 Switch	4
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1858	Gorham Middle School	Gorham	Cisco 2960 Switch	1
			Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	30
1860	Vinalhaven School	Vinalhaven	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	11
1862	Messalonskee Middle School	Oakland	Cisco 2960 Switch	2

			Cisco 3560 Switch	6
			Cisco 4402 Controller	2
			Cisco Aironet 1142 WAP	24
1863	Saco Transition Program	Saco	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	2
1873	Peninsula CSD School	Winter Harbor	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	8
1875	Greely Middle School	Cumberland	Cisco 2960 Switch	3
			Cisco 3560 Switch	3
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	34
1878	Oak Hill Middle School	Sabattus	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	7
1879	Carrabec Community School	Anson	Cisco 3560 Switch	2
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	9
1882	Central Maine Learning Center	Belgrade	Cisco 2106 Controller	1
			Cisco Aironet 1142 WAP	2
1904	Casco Bay High School	Portland	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	33
1938	Union 132 Secondary School	Windsor	Cisco 2106 Controller	1
			Cisco 3560 Switch	1
			Cisco Aironet 1142 WAP	3
1941	Sacopee Valley Middle School	Hiram	Cisco 2960 Switch	2
			Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	33
1948	Medomak Middle School	Waldoboro	Cisco 3560 Switch	1
			Cisco 4402 Controller	1
			Cisco Aironet 1142 WAP	19

A downloadable copy of these data is available at:
http://www.maine.gov/mlti/rfp/201210412_wireless.xlsx.

1.7. Current Software

The following is a list of software titles currently included on the MLTI devices deployed to students and teachers in Maine.

Name	Version	Name	Version
1 to 1 Back Up	3.2	Keynote	5.1.1
Acorn	3.2	Logger Pro	3.8.4.2
Acrobat Reader	10.1.2	Mac OS X	10.6.8
Address Book	5.0.3	Mail	4.5
Adobe Digital Editions	1.8.1	Maine Explorer	1.0.3

Adobe Flash	11.1.102.55	MindNode	1.7.4
Adobe ShockWave	11.6.1.r633	MuseScore	1.1
AppleScript Utility	2.3	MyWorld GIS	4.1.11
Audio MIDI Setup	3.0.3	NetLogo	5
Automator	2.1.1	NoteShare	2.5.8
Bento	4.0.6	Numbers	2.1
Calculator	4.5.3	Omni GraphSketcher	1.2.1
ClamXav	2.2.2	OmniDazzle	1.1.1
Comic Life	1.54	OmniDictionary	2.0.4
Cyberduck	4.2.1	OmniFocus	1.9.4
Data Studio	2012	OmniGraffle	5.3.6
Democracy	1	OmniOutliner	3.10.3
DVD Player	5.4	OmniWeb	5.11.1
Encyclopedia Britannica	10	Overdrive Media Console	1.1
Firefox	3.6.13	Pages	4.1
Garageband	6.0.4	Perian	1.2.3
Geniquest		Photo Booth	3.0.3
Geogebra	4.0.21	Preview	5.0.3
Google Earth	6.2.0.590.5	ProfCast	2.6.5
Grapher	2.1	QuickTime Player X	10
iCal	4.0.4	Safari	5.1.3
iChat	5.0.3	Scratch	1.4
iDVD	7.1.2	SketchUp Pro	8.0.11751
iMovie	9.0.4	TextEdit	1.6
iPhoto	9.2.1	Time Machine	1.1
iSync	3.1.2	VoiceOver	3.5
iTunes	10.5.3	Wolfquest	
iWeb	3.0.4	Write Room	2.5.2
JA Titan		Zon	

1.8. School Sites

As an aid to the bidder, Tables D and E are included in this appendix depict the distribution of students by school size. A more detailed summary of the school enrollments can be found at:

<http://www.maine.gov/education/enroll/attending/>

Tables D and E depict data from the spring enrollments (April 2012) for Maine's public middle and high schools.

NOTE: Bidders should not rely on the data contained in the Attending Enrollment reports published at the URL above for detailed planning or cost estimates. Data contained in the *Attending Enrollment* reports from schools and school enrollments are for April 2012, and therefore is exemplary only. For planning purposes, the projected numbers utilized in this section reflect expected enrollment trends statewide.

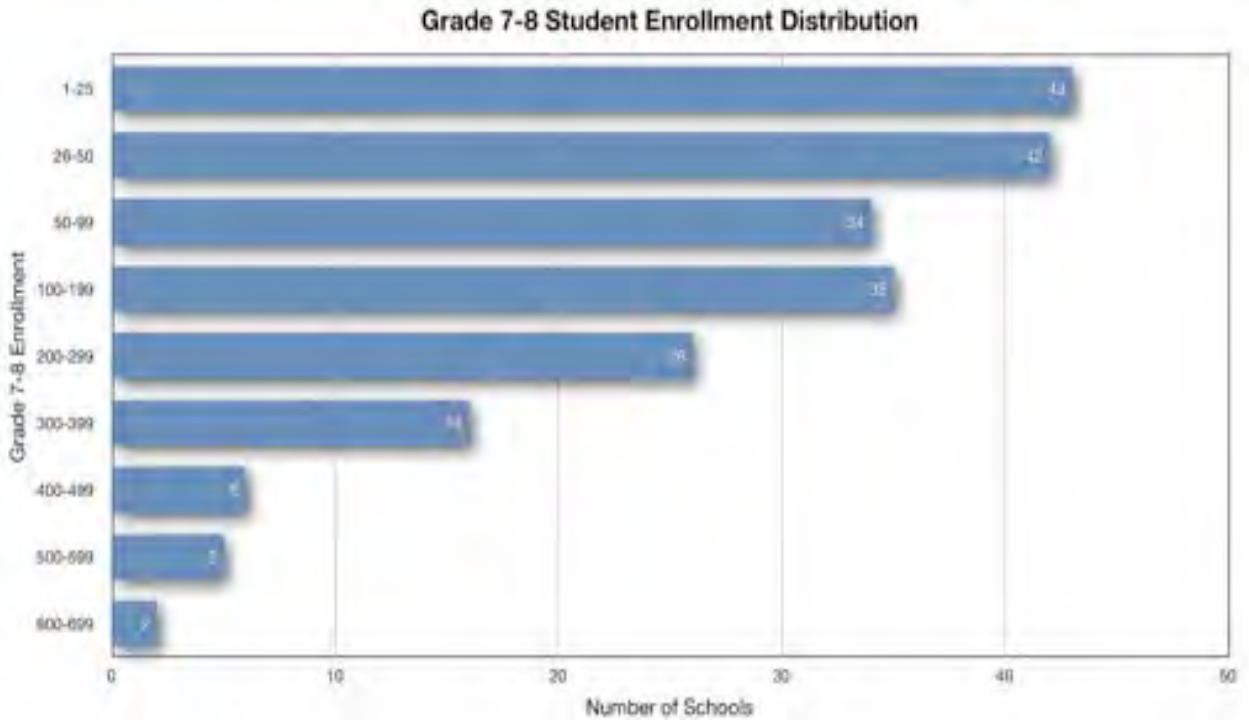


Table D – Grade 7-8 Student Enrollment Distribution

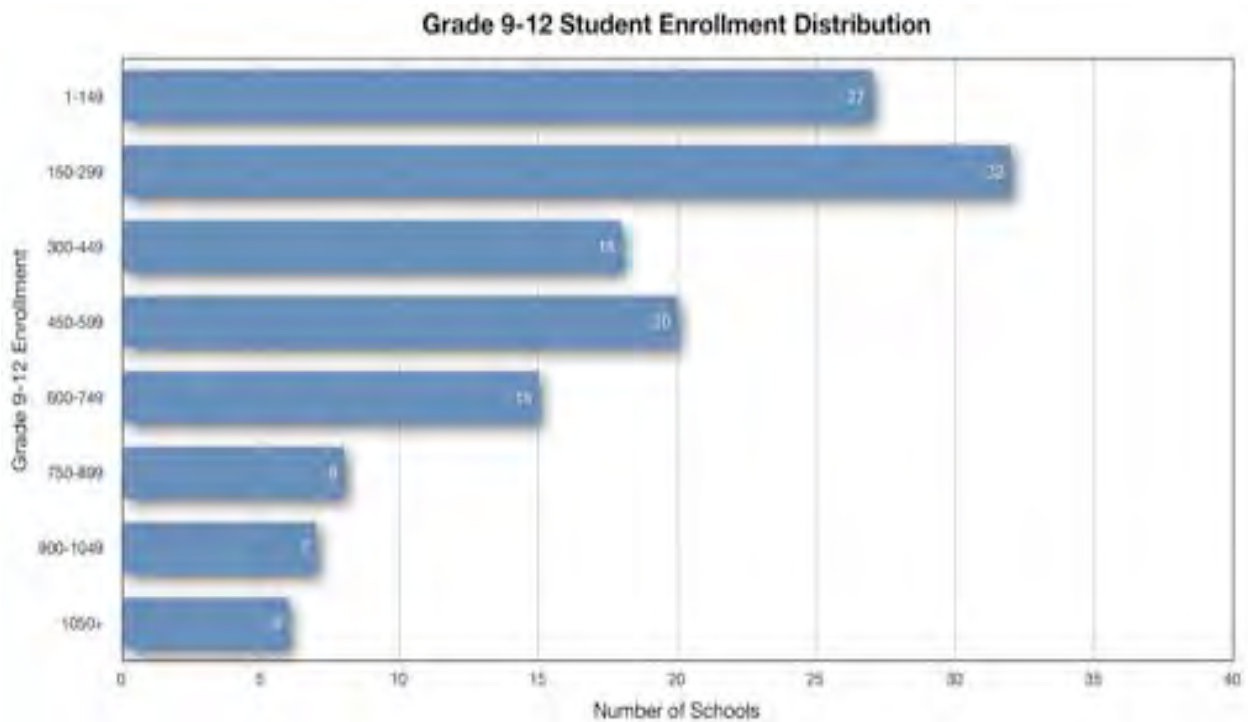


Table E – Grade 9-12 Student Enrollment Distribution

1.9. Services Provided by Other Maine Entities

This subsection includes more details and Maine-specific information that augments **Section 4, Services Provided by Other Entities**.

As described in this section, the Bidder will be responsible to coordinate the design and deployment of the bid solution in Maine in order to appropriately complement and leverage these activities or

resources. Note that this list is not exhaustive.

1.9.1. Building Preparedness

In general, all of Maine's middle schools and most of Maine's high schools have been participating in the MLTI, and are accustomed to providing necessary support to allow for the installation of infrastructure to support the MLTI.

1.9.2. Home Access to the Internet

The Maine Learning Technology Foundation (MLTF), a non-profit organization, in conjunction with Great Works Internet (GWI), a Maine ISP, provides free dialup connectivity to all students in the participating middle schools who qualify for the Federal Free/Reduced lunch program. In addition, the MLTF sponsors reduced rate dialup and DSL broadband connectivity to students and teachers through GWI. Additional information about the MLTF and GWI program can be found at: <http://maine.gov/mlti/parent/home-internet-access.shtml>. The Department recognizes that dial-up connectivity is no longer as viable a solution as it was in the past. The Department is continuing to seek solutions and arrangements to facilitate broadband adoption for all families in Maine at affordable rates.

1.9.3. Content, Assessment, and Integration

Maine is a “local control” state with regard to curriculum and selection of instructional materials. Maine’s statewide standards, the *Learning Results*, describe what children should know and be able to do at each grade span. Maine has adopted the *Common Core State Standards for English Language Arts and Mathematics*. In addition, it is anticipated that Maine will adopt the *Next Generation Science Standards* in the future upon completion. However, local school units and classroom teachers are left with academic freedom to design lessons and select materials. Although the Bidder may include options for services regarding content, assessment tools, and other materials, any such services should be premised on Maine’s system of locally developed and selected curriculum, instruction and assessment.

1.9.4. Primary Research Databases

The State of Maine provides access to online content subscriptions for basic research and primary source materials in conjunction with the Maine State Library. These content subscriptions are available to all students and citizens in Maine. <http://www.maine.gov/marvel>

1.9.5. Program Evaluation and Assessment

The Department has an existing relationship with the Maine Education Policy Research Institute. More information about MEPRI can be found here:

<http://www2.umaine.edu/mepri/>

The Provider should be prepared to supply its required reports and documents in a time, manner, and format specified by the Department that will enable adequate evaluation.

State Profiles

2. Hawaii

2.1. Overview

Hawaii can be described as a single LEA / SEA entity, and is not considered a local control state.

The implementation of the *Common Core State Standards* (CCSS) is one of the many strategies the Hawaii Department of Education is focusing on to ready our students for success in life after high school. Implementation requires some major shifts in the teaching and learning process. In order to provide teachers with the tools and resources to align instruction and to provide students with the materials to access the expectations in the new standards, the State has developed a plan for purchasing and implementing a set of common core curricular materials. The leadership team has decided that one core program for reading and math will be purchased statewide to leverage funds, time and professional development efforts.

Hawaii’s “Digital Materials Using Tablets and Laptops” approach means that the state will purchase curricular materials with a digital component. To ensure all students are able to access the digital components of the curriculum, the state will also purchase tablets for elementary and middle grades and laptops for grades 9-12. Digital materials are easily updated at little to no cost and leveraging statewide buying power will also result in lower per-unit costs.

2.2. Hawaii enrollment (projected) 2012-13

Hawaii Enrollment Projections 2013-14			
Category	High School Graduating Year	Grade	Total
Regular Education	Class of 2026	K	15,349
	Class of 2025	1	14,303
	Class of 2024	2	13,778
	Class of 2023	3	13,336
	Class of 2022	4	12,766
	Class of 2021	5	12,502
	Class of 2020	6	11,527
	Class of 2019	7	10,874
	Class of 2018	8	11,040
	Class of 2017	9	12,194
	Class of 2016	10	11,275

	Class of 2015	11	10,549
	Class of 2014	12	9,059
		Subtotal	158,552
Special Education		K-6	8,092
		7-8	2,971
		9-12	6,119
		Subtotal	17,182
GRAND TOTAL			175,734

2.3. Deployment

The Hawaii DOE is planning to deploy Tablets and laptops to its teachers and students over a 3 year deployment cycle beginning with the 2013-14 school year. The estimated annual procurement of devices for staff and students will number approximately 65,000 per year (dependent on availability of funds).

2.4. Services Provided by Other Entities

2.4.1. This subsection includes more details and Hawaii-specific information that augments **Section 4, Services Provided by Other Entities.**

As described in this section, the Bidder will be responsible to coordinate the design and deployment of the bid solution in Hawaii in order to appropriately complement and leverage these activities or resources Note that this list is not exhaustive.

2.4.1.1. Hawaii Readiness

Hawaii is an LEA/SEA. Physical building readiness information is consolidated on a state level, It will be Hawaii's responsibility to address building readiness based on specifications supplied by the Provider.

2.4.1.2. Hawaii Connectivity

Hawaii is an LEA/SEA. Connectivity readiness will determined at the state level, see **Hawaii Infrastructure Readiness Matrix** below

2.5. Glossary of terms:

2.5.1. Complex Area: The Hawaii Department of Education's designation for a grouping of schools by geographical area. For the purposes of this RFP, the organizational equivalent of a Complex Area may be referred to as a District.

2.5.2. Complex Area Superintendent: The Hawaii Department of Education's designation the administrator in charge of a Complex Area. Complex Area Superintendents are supervised by the state Superintendent of Education.

2.5.3. Complex: The Hawaii Department of Education's designation for a sub-grouping of schools within the confines of a Complex Area defined as a High School, and its corresponding Intermediate and Elementary School feeder schools. These schools comprise a single K-12 Continuum.

2.5.4. HSA: The Hawaii State Assessment. This is an online electronic statewide electronic

assessment. The current vendor provider for this assessment is AIR.

2.6. Hawaii Infrastructure planning:

Hawaii's network infrastructure consists of a mix of legacy hardware (consisting primarily of a mix of 3Com and Aruba based equipment), and is shifting toward a standardized set of Cisco based wired and wireless based devices. This newer infrastructure currently supports wireless a/b/g/n networks. The Hawaii Department is currently in the process of evaluating 802.11ac based access point, although has not made yet any decisions on whether to move forward with their purchase at this time.

Following is a tentative plan of Hawaii's planned build out of wireless and fiber-based wide area network. The Wireless and school based infrastructure project is called the Converged Network Infrastructure project within Hawaii, and the fiber network is commonly referred to within Hawaii as the BTOP project.

Hawaii Infrastructure Readiness Matrix

See below for legend

School/Facility Name	District	Complex Name	Complex Area	Wireless Install	Fiber to School
Aiea Elementary	Central	Aiea	Aiea-Moanalua-Radford	A	E
Aiea High	Central	Aiea	Aiea-Moanalua-Radford	A	E
Aiea Intermediate	Central	Aiea	Aiea-Moanalua-Radford	A	E
Alvah Scott Elementary	Central	Aiea	Aiea-Moanalua-Radford	C	E
Pearl Ridge Elementary	Central	Aiea	Aiea-Moanalua-Radford	C	F
Waimalu Elementary	Central	Aiea	Aiea-Moanalua-Radford	C	E
Webling Elementary	Central	Aiea	Aiea-Moanalua-Radford	C	D
Baldwin High	Maui	Baldwin	Baldwin-Kekaulike-Maui	A	E
Iao Middle	Maui	Baldwin	Baldwin-Kekaulike-Maui	B	D
Waihee Elementary	Maui	Baldwin	Baldwin-Kekaulike-Maui	A	D
Wailuku Elementary	Maui	Baldwin	Baldwin-Kekaulike-Maui	B	E
Campbell High	Leeward	Campbell	Campbell-Kapolei-Waianae	B	E
Ewa Beach Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	A	E
Ewa Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	B	E
Ewa Makai	Leeward	Campbell	Campbell-Kapolei-Waianae	A	D
Holomua Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	C	E
Ilima Intermediate	Leeward	Campbell	Campbell-Kapolei-Waianae	B	E
Iroquois Point Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	B	E
Kaimiloa Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	A	D
Keoneula Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	C	E
Pohakea Elementary	Leeward	Campbell	Campbell-Kapolei-Waianae	A	E
Ahuimanu Elementary	Windward	Castle	Castle-Kahuku	B	D
Ben Parker Elementary	Windward	Castle	Castle-Kahuku	A	D
Castle High	Windward	Castle	Castle-Kahuku	A	E
Heeia Elementary	Windward	Castle	Castle-Kahuku	C	E
Kahaluu Elementary	Windward	Castle	Castle-Kahuku	A	E
Kaneohe Elementary	Windward	Castle	Castle-Kahuku	B	D
Kapunahala Elementary	Windward	Castle	Castle-Kahuku	A	E
King Intermediate	Windward	Castle	Castle-Kahuku	A	E

Puohala Elementary	Windward	Castle	Castle-Kahuku	A	D
Waiahole Elementary	Windward	Castle	Castle-Kahuku	B	D
Kamakahelei Middle	Kauai	Central Kauai	Kapaa-Kauai-Waimea	C	E
Kauai High	Kauai	Central Kauai	Kapaa-Kauai-Waimea	A	E
King Kaumualii Elementary	Kauai	Central Kauai	Kapaa-Kauai-Waimea	B	E
Koloa Elementary	Kauai	Central Kauai	Kapaa-Kauai-Waimea	C	E
Wilcox Elementary	Kauai	Central Kauai	Kapaa-Kauai-Waimea	C	E
Hanalei Elementary	Kauai	East Kauai	Kapaa-Kauai-Waimea	C	E
Kapaa Elementary	Kauai	East Kauai	Kapaa-Kauai-Waimea	B	E
Kapaa High	Kauai	East Kauai	Kapaa-Kauai-Waimea	A	E
Kapaa Middle	Kauai	East Kauai	Kapaa-Kauai-Waimea	A	E
Kilauea Elementary	Kauai	East Kauai	Kapaa-Kauai-Waimea	C	E
Dole Middle	Honolulu	Farrington	Farrington-Kaiser	A	E
Farrington High	Honolulu	Farrington	Farrington-Kaiser	A	E
Fern Elementary	Honolulu	Farrington	Farrington-Kaiser	A	E
Kaewai Elementary	Honolulu	Farrington	Farrington-Kaiser	A	D
Kalakaua Middle	Honolulu	Farrington	Farrington-Kaiser	B	E
Kalihi Elementary	Honolulu	Farrington	Farrington-Kaiser	A	D
Kalihi Kai Elementary	Honolulu	Farrington	Farrington-Kaiser	B	D
Kalihi Uka Elementary	Honolulu	Farrington	Farrington-Kaiser	A	D
Kalihi Waena Elementary	Honolulu	Farrington	Farrington-Kaiser	A	E
Kapalama Elementary	Honolulu	Farrington	Farrington-Kaiser	B	E
Linapuni Elementary	Honolulu	Farrington	Farrington-Kaiser	B	E
Puuhale Elementary	Honolulu	Farrington	Farrington-Kaiser	A	E
Hana High and Elementary	Maui	Hana	Hana-Lahainaluna-Lanai-Molokai	A	F
De Silva Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	C	E
Haaheo Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Hilo High	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Hilo Intermediate	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	B	E
Hilo Union Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Kalaniana'ole Elementary and Inter.	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Kapiolani Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Kaumana Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	C	E
Keaukaha Elementary	Hawaii	Hilo	Hilo-Laupahoehoe-Waiakea	A	E
Honokaa Elementary	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Honokaa High and Intermediate	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	A	E
Paauilo Elementary and Intermediate	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Waikoloa Elementary	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	B	E
Waimea Elementary and Intermediate	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	B	E
Waimea Middle	Hawaii	Honokaa	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Hauula Elementary	Windward	Kahuku	Castle-Kahuku	B	D
Kaaawa Elementary	Windward	Kahuku	Castle-Kahuku	B	E
Kahuku Elementary	Windward	Kahuku	Castle-Kahuku	C	D
Kahuku High and Intermediate	Windward	Kahuku	Castle-Kahuku	A	E
Laie Elementary	Windward	Kahuku	Castle-Kahuku	B	E
Sunset Beach Elementary	Windward	Kahuku	Castle-Kahuku	B	E
Enchanted Lake Elementary	Windward	Kailua	Kailua-Kalaheo	A	D
Kaelepulu Elementary	Windward	Kailua	Kailua-Kalaheo	A	E
Kailua High	Windward	Kailua	Kailua-Kalaheo	A	E
Keolu Elementary	Windward	Kailua	Kailua-Kalaheo	A	E

Lanikai Elementary	Windward	Kailua	Kailua-Kalaheo	C	E
Maunawili Elementary	Windward	Kailua	Kailua-Kalaheo	C	D
Olomana School	Windward	Kailua	Kailua-Kalaheo	C	E
Pope Elementary	Windward	Kailua	Kailua-Kalaheo	C	D
Waimanalo Elementary and Inter	Windward	Kailua	Kailua-Kalaheo	C	E
Ala Wai Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	C	E
Aliiolani Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	B	D
Hawaii School for Deaf and Blind	Honolulu	Kaimuki	Kaimuki-Kalani	C	E
Hokulani Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	C	E
Jarrett Middle	Honolulu	Kaimuki	Kaimuki-Kalani	C	E
Jefferson Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	B	E
Kaimuki High	Honolulu	Kaimuki	Kaimuki-Kalani	A	E
Kuhio Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	B	E
Lunalilo Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	B	E
Palolo Elementary	Honolulu	Kaimuki	Kaimuki-Kalani	B	E
Washington Middle	Honolulu	Kaimuki	Kaimuki-Kalani	C	E
Aina Haina Elementary	Honolulu	Kaiser	Farrington-Kaiser	C	E
Hahaione Elementary	Honolulu	Kaiser	Farrington-Kaiser	C	D
Kaiser High	Honolulu	Kaiser	Farrington-Kaiser	C	E
Kamiloiki Elementary	Honolulu	Kaiser	Farrington-Kaiser	A	D
Koko Head Elementary	Honolulu	Kaiser	Farrington-Kaiser	C	E
Niu Valley Intermediate	Honolulu	Kaiser	Farrington-Kaiser	A	E
Wailupe Valley Elementary	Honolulu	Kaiser	Farrington-Kaiser	B	E
Aikahi Elementary	Windward	Kalaheo	Kailua-Kalaheo	C	D
Kailua Elementary	Windward	Kalaheo	Kailua-Kalaheo	C	D
Kailua Intermediate	Windward	Kalaheo	Kailua-Kalaheo	A	D
Kainalu Elementary	Windward	Kalaheo	Kailua-Kalaheo	A	E
Kalaheo High	Windward	Kalaheo	Kailua-Kalaheo	A	D
Mokapu Elementary	Windward	Kalaheo	Kailua-Kalaheo	B	F
Kahala Elementary	Honolulu	Kalani	Kaimuki-Kalani	C	F
Kaimuki Middle	Honolulu	Kalani	Kaimuki-Kalani	A	E
Kalani High	Honolulu	Kalani	Kaimuki-Kalani	A	E
Liholiho Elementary	Honolulu	Kalani	Kaimuki-Kalani	C	E
Liliuokalani Elementary	Honolulu	Kalani	Kaimuki-Kalani	B	E
Waialae Elementary	Honolulu	Kalani	Kaimuki-Kalani	C	E
Waikiki Elementary	Honolulu	Kalani	Kaimuki-Kalani	B	E
Wilson Elementary	Honolulu	Kalani	Kaimuki-Kalani	C	E
Barbers Point Elementary	Leeward	Kapolei	Campbell-Kapolei-Waianae	B	E
Kapolei Elementary	Leeward	Kapolei	Campbell-Kapolei-Waianae	B	E
Kapolei High	Leeward	Kapolei	Campbell-Kapolei-Waianae	A	E
Kapolei Middle	Leeward	Kapolei	Campbell-Kapolei-Waianae	C	E
Makakilo Elementary	Leeward	Kapolei	Campbell-Kapolei-Waianae	A	D
Mauka Lani Elementary	Leeward	Kapolei	Campbell-Kapolei-Waianae	B	E
Kau High and Pahala Elementary	Hawaii	Kau-Keaau-Pahoa	Kau-Keaau-Pahoa	A	D
Naalehu Elementary and Inter.	Hawaii	Kau-Keaau-Pahoa	Kau-Keaau-Pahoa	A	D
Keaau Elementary	Hawaii	Keaau	Kau-Keaau-Pahoa	A	D
Keaau High	Hawaii	Keaau	Kau-Keaau-Pahoa	A	D
Keaau Middle	Hawaii	Keaau	Kau-Keaau-Pahoa	A	D
Mountain View Elementary	Hawaii	Keaau	Kau-Keaau-Pahoa	A	D
Holualoa Elementary	Hawaii	Kealakehe	Honokaa-Kealakehe-Kohala-Konawaena	A	E
Kahakai Elementary	Hawaii	Kealakehe	Honokaa-Kealakehe-Kohala-Konawaena	A	E
Kealakehe Elementary	Hawaii	Kealakehe	Honokaa-Kealakehe-Kohala-	B	E

			Konawaena		
Kealakehe High	Hawaii	Kealakehe	Honokaa-Kealakehe-Kohala-Konawaena	B	E
Kealakehe Intermediate	Hawaii	Kealakehe	Honokaa-Kealakehe-Kohala-Konawaena	B	E
Kohala Elementary	Hawaii	Kohala	Honokaa-Kealakehe-Kohala-Konawaena	B	E
Kohala High	Hawaii	Kohala	Honokaa-Kealakehe-Kohala-Konawaena	A	E
Kohala Middle	Hawaii	Kohala	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Honaunau School	Hawaii	Konawaena	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Hookena Elementary	Hawaii	Konawaena	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Konawaena Elementary	Hawaii	Konawaena	Honokaa-Kealakehe-Kohala-Konawaena	C	E
Konawaena High	Hawaii	Konawaena	Honokaa-Kealakehe-Kohala-Konawaena	A	E
Konawaena Middle	Hawaii	Konawaena	Honokaa-Kealakehe-Kohala-Konawaena	C	E
King Kamehameha III Elementary	Maui	Lahainaluna	Hana-Lahainaluna-Lanai-Molokai	A	E
Lahaina Intermediate	Maui	Lahainaluna	Hana-Lahainaluna-Lanai-Molokai	A	E
Lahainaluna High	Maui	Lahainaluna	Hana-Lahainaluna-Lanai-Molokai	C	E
Nahienaena Elementary	Maui	Lahainaluna	Hana-Lahainaluna-Lanai-Molokai	C	E
Lanai High and Elementary	Maui	Lanai	Hana-Lahainaluna-Lanai-Molokai	A	E
Laupahoehoe High and Elementary	Hawaii	Laupahoehoe	Hilo-Laupahoehoe-Waiakea	C	E
Hale Kula Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	C	E
Helemano Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	C	E
Iliahi Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	B	E
Kaala Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	B	E
Leilehua High	Central	Leilehua	Leilehua-Mililani-Waiialua	A	E
Solomon Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	A	E
Wahiawa Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	B	E
Wahiawa Intermediate	Central	Leilehua	Leilehua-Mililani-Waiialua	B	E
Wheeler Elementary	Central	Leilehua	Leilehua-Mililani-Waiialua	C	E
Wheeler Intermediate	Central	Leilehua	Leilehua-Mililani-Waiialua	A	E
Kahului Elementary	Maui	Maui	Baldwin-Kekaulike-Maui	B	E
Kamalii Elementary	Maui	Maui	Baldwin-Kekaulike-Maui	C	D
Kihei Elementary	Maui	Maui	Baldwin-Kekaulike-Maui	A	D
Lihikai Elementary	Maui	Maui	Baldwin-Kekaulike-Maui	B	D
Lokelani Intermediate	Maui	Maui	Baldwin-Kekaulike-Maui	A	D
Maui High	Maui	Maui	Baldwin-Kekaulike-Maui	A	E
Maui Waena Intermediate	Maui	Maui	Baldwin-Kekaulike-Maui	B	E
Pomaikai Elementary	Maui	Maui	Baldwin-Kekaulike-Maui	C	E
Central Middle	Honolulu	McKinley	McKinley-Roosevelt	A	E
Kaahumanu Elementary	Honolulu	McKinley	McKinley-Roosevelt	C	E
Kaiulani Elementary	Honolulu	McKinley	McKinley-Roosevelt	C	E
Kauluwela Elementary	Honolulu	McKinley	McKinley-Roosevelt	A	E
Lanakila Elementary	Honolulu	McKinley	McKinley-Roosevelt	A	E
Likelike Elementary	Honolulu	McKinley	McKinley-Roosevelt	A	D
McKinley High	Honolulu	McKinley	McKinley-Roosevelt	A	E
Royal Elementary	Honolulu	McKinley	McKinley-Roosevelt	A	D
Kipapa Elementary	Central	Mililani	Leilehua-Mililani-Waiialua	B	E
Mililani High	Central	Mililani	Leilehua-Mililani-Waiialua	A	E
Mililani Ike Elementary	Central	Mililani	Leilehua-Mililani-Waiialua	C	E
Mililani Mauka Elementary	Central	Mililani	Leilehua-Mililani-Waiialua	A	E

Mililani Middle	Central	Mililani	Leilehua-Mililani-Waiialua	A	E
Mililani Uka Elementary	Central	Mililani	Leilehua-Mililani-Waiialua	C	D
Mililani Waena Elementary	Central	Mililani	Leilehua-Mililani-Waiialua	B	D
Moanalua Elementary	Central	Moanalua	Aiea-Moanalua-Radford	A	E
Moanalua High	Central	Moanalua	Aiea-Moanalua-Radford	A	E
Moanalua Intermediate	Central	Moanalua	Aiea-Moanalua-Radford	A	E
Red Hill Elementary	Central	Moanalua	Aiea-Moanalua-Radford	C	D
Salt Lake Elementary	Central	Moanalua	Aiea-Moanalua-Radford	C	E
Shafter Elementary	Central	Moanalua	Aiea-Moanalua-Radford	B	E
Kaunakakai Elementary	Maui	Molokai	Hana-Lahainaluna-Lanai-Molokai	C	E
Kilohana Elementary	Maui	Molokai	Hana-Lahainaluna-Lanai-Molokai	B	E
Maunaloa Elementary	Maui	Molokai	Hana-Lahainaluna-Lanai-Molokai	C	E
Molokai High	Maui	Molokai	Hana-Lahainaluna-Lanai-Molokai	A	E
Molokai Intermediate	Maui	Molokai	Hana-Lahainaluna-Lanai-Molokai	C	E
Nanaikapono Elementary	Leeward	Nanakuli	Nanakuli-Pearl City-Waipahu	B	E
Nanakuli Elementary	Leeward	Nanakuli	Nanakuli-Pearl City-Waipahu	B	E
Nanakuli High and Intermediate	Leeward	Nanakuli	Nanakuli-Pearl City-Waipahu	B	E
Keonepoko Elementary	Hawaii	Pahoa	Kau-Keaau-Pahoa	A	D
Pahoa Elementary	Hawaii	Pahoa	Kau-Keaau-Pahoa	A	D
Pahoa High and Intermediate	Hawaii	Pahoa	Kau-Keaau-Pahoa	A	D
Highlands Intermediate	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Kanoelani Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Lehua Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Manana Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Momilani Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Palisades Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Pearl City Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Pearl City High	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Pearl City Highlands Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Waiiau Elementary	Leeward	Pearl City	Nanakuli-Pearl City-Waipahu	A	D
Aliamanu Elementary	Central	Radford	Aiea-Moanalua-Radford	C	E
Aliamanu Intermediate	Central	Radford	Aiea-Moanalua-Radford	C	D
Hickam Elementary	Central	Radford	Aiea-Moanalua-Radford	A	E
Makalapa Elementary	Central	Radford	Aiea-Moanalua-Radford	C	E
Mokulele Elementary	Central	Radford	Aiea-Moanalua-Radford	B	E
Nimitz Elementary	Central	Radford	Aiea-Moanalua-Radford	B	E
Pearl Harbor Elementary	Central	Radford	Aiea-Moanalua-Radford	C	E
Pearl Harbor Kai Elementary	Central	Radford	Aiea-Moanalua-Radford	C	E
Radford High	Central	Radford	Aiea-Moanalua-Radford	C	E
Anuenue Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	D
Kawanakoa Middle	Honolulu	Roosevelt	McKinley-Roosevelt	A	D
Lincoln Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	D
Maemae Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	E
Manoa Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	E
Noelani Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	E
Nuuanu Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	D
Pauoa Elementary	Honolulu	Roosevelt	McKinley-Roosevelt	A	E
Roosevelt High	Honolulu	Roosevelt	McKinley-Roosevelt	A	E
Stevenson Middle	Honolulu	Roosevelt	McKinley-Roosevelt	C	E
Haiku Elementary	Maui	Upcountry	Baldwin-Kekaulike-Maui	C	E
Kalama Intermediate	Maui	Upcountry	Baldwin-Kekaulike-Maui	C	E
King Kekaulike High	Maui	Upcountry	Baldwin-Kekaulike-Maui	A	E
Kula Elementary	Maui	Upcountry	Baldwin-Kekaulike-Maui	C	E

Makawao Elementary	Maui	Upcountry	Baldwin-Kekaulike-Maui	C	D
Paia Elementary	Maui	Upcountry	Baldwin-Kekaulike-Maui	A	D
Pukalani Elementary	Maui	Upcountry	Baldwin-Kekaulike-Maui	A	D
Waiakea Elementary	Hawaii	Waiakea	Hilo-Laupahoehoe-Waiakea	C	E
Waiakea High	Hawaii	Waiakea	Hilo-Laupahoehoe-Waiakea	B	E
Waiakea Intermediate	Hawaii	Waiakea	Hilo-Laupahoehoe-Waiakea	A	E
Waiakeawaena Elementary	Hawaii	Waiakea	Hilo-Laupahoehoe-Waiakea	C	E
Haleiwa Elementary	Central	Waialua	Leilehua-Miilani-Waialua	A	E
Waialua Elementary	Central	Waialua	Leilehua-Miilani-Waialua	A	E
Waialua High	Central	Waialua	Leilehua-Miilani-Waialua	A	E
Kamaile Elementary	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Leihoku Elementary	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Maili Elementary	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Makaha Elementary	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Waianae Elementary	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Waianae High	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
Waianae Intermediate	Leeward	Waianae	Campbell-Kapolei-Waianae	A	D
August Ahrens Elementary	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Honowai Elementary	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Kaleiopuu Elementary	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Waikele Elementary	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Waipahu Elementary	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Waipahu High	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Waipahu Intermediate	Leeward	Waipahu	Nanakuli-Pearl City-Waipahu	A	D
Eleele Elementary	Kauai	West Kauai	Kapaa-Kauai-Waimea	C	E
Kalaheo Elementary	Kauai	West Kauai	Kapaa-Kauai-Waimea	B	E
Kekaha Elementary	Kauai	West Kauai	Kapaa-Kauai-Waimea	B	E
Niihau School	Kauai	West Kauai	Kapaa-Kauai-Waimea	B	E
Waimea Canyon Elementary and Inter.	Kauai	West Kauai	Kapaa-Kauai-Waimea	A	E
Waimea High	Kauai	West Kauai	Kapaa-Kauai-Waimea	A	E

Legend		
Converged Infrastructure-	Cisco Wireless Installed by June 2013	A
	Cisco Wireless Installed by January 2014	B
	Cisco Wireless Installed by June 2014	C
BTOP-	Fiber Installed at School Now	D
	Fiber Installed at School by June 2013	E
	Fiber Potential Delays Beyond June 2013	F

2.7. NASPO Intent to Participate

A copy of the State of Hawaii’s Intent to Participate letter may be downloaded from http://www.maine.gov/mlti/rfp/201210412_hawaii_ip.pdf.

State Profiles

3. Vermont

Vermont seeks to become a partner under this process and here provides a snapshot of the education technology landscape in Vermont:

3.1. Demographics

Student population in Public Schools for SY2011-12: 89,301 (includes 4 public/private institutions)

Number of public schools in Vermont: 312

Number of actual computing devices in Vermont schools as of SY2010-11: 42,207

Number of current 1:1 computing programs in Vermont as estimated in SY2011-12 (number derived from actual survey on SY2010-11 and estimated from additional programs in 2011-12: **120**, (this could include 1:1 programs schoolwide, at a particular grade level, or in one portion of a school building).

3.2. Services Provided by Other Entities

3.2.1. This subsection includes more details and Vermont-specific information that augments **Section 4, Services Provided by Other Entities.**

As described in this section, the Bidder will be responsible to coordinate the design and deployment of the bid solution in Vermont in order to appropriately complement and leverage these activities or resources Note that this list is not exhaustive.

3.2.1.1. Building Preparedness

Vermont contains 60 LEA's with multiple school buildings within each. A readiness scheme is currently being developed to determine the building readiness for this initiative.

3.2.1.2. Connectivity and adequate bandwidth to each school building

Vermont contains 60 LEA's with multiple school buildings within each. A readiness scheme being currently developed will be coordinated with an annual technology survey that will help determine each schools connectivity capacity.

3.2.1.3. Content, Assessment, and Integration

All schools in Vermont are currently in the implementation phase of *Common Core* standards and preparing for the Smarter Balanced Assessments in 2014-15. The Vermont Department of Education is also fostering a statewide effort to move curriculum materials to a digital format.

3.3. Broadband

Current broadband capacity at Vermont schools, (data from SY2010-11): The following tables indicate connectivity types and estimated download speeds at Vermont schools:

Type of connection	# of schools
Cable	84
DSL	56
Fiber optic	78
Other Copper (T1)	36
Fixed Wireless or WISP	3
Mobile Wireless	1
Other	15
Satellite	1

Download Speed	# of Schools
Less than or equal to 768 kbps	3
Greater than or equal to 768 kbps and less than 1.5 mbps	12
Greater than or equal to 1.5 mbps and less than 3 mbps	35
Greater than or equal to 3 mbps and less than 6 mbps	38
Greater than or equal to 6 mbps and less than 10 mbps	33
Greater than or equal to 10 mbps and less than 25 mbps	65
Greater than or equal to 25 mbps and less than 50 mbps	63
Greater than or equal to 50 mbps and less than 100 mbps	13
Greater than or equal to 100 mbps and less than 1 Gbps	12

3.4. Budget/Funding:

Vermont is making available the opportunity to purchase from this RFP process for school year 2013-14. The preference would be for devices to be available for delivery in May/June of 2013 in preparation for deployment to students in September of 2013.

At the time of writing this RFP, funding for the devices is the responsibility of the local school or district, and the State of Vermont or the Vermont Department of Education, while supporting the initiative and managing the deployment of the devices into SY 2013-14, has limited liability in the financial obligation to vendors. The decision to partake of the opportunity is solely at the discretion of the local school or district entity

3.5. Purchasing authority for multi-state and co-operative agreements:

Title 29: Public Property and Supplies

Chapter 49: DEPARTMENT OF BUILDINGS AND GENERAL SERVICES

29 V.S.A. § 903a. Alternative purchasing sources

§ 903a. Alternative purchasing sources

As an alternative to the procedures set forth in § 903 of this title, the commissioner may elect to purchase any of the items mentioned in this chapter through a program established by the federal general services administration to supply federal agencies with supplies and materials, or may choose to participate in cooperative purchases with other states, provided that the commissioner first determines that purchasing through the general services administration or cooperative agreements with other states is in the best interest of the state as provided in subsection 903(b) of this title. (Added 1995, No. 178 (Adj. Sess.), § 298.)

3.6. NASPO Intent to Participate

A copy of the State of Vermont's Intent to Participate letter may be downloaded from http://www.maine.gov/mlti/rfp/201210412_vermont_ip.pdf.

4. Additional NASPO Intent to Participate, Additional States

The following states have submitted NASPO Intent to Participate letters:

- Montana

Appendix F

Letter from Microsoft specifying discounts that can be applied to any proposal that offers Microsoft applications as part of the Bidder's proposed solution.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
<http://www.microsoft.com/>



October 8, 2012

Jeff Mao
Learning Technology Policy Director
Maine DOE
23 State House Station Augusta, Maine

Re: Shape the Future Letter of Eligibility for State of Maine initiative (#1392)

Microsoft hereby approves the Maine DOE eligibility to request order fulfillment for the specified maximum quantity of Windows® 8 Professional (National Academic Only) English language licenses for distribution to the list of K-12 school institutions in Appendix A and only in association with the State of Maine initiative.

Maximum quantity licenses: 110,000 Windows® 8 Professional (National Academic Only)

This LOE must be provided to an OEM that has entered into a direct OEM licensing relationship with Microsoft for Microsoft software prior to distribution of the licenses. The Windows® 8 Professional (National Academic Only) licenses may only be distributed to the K-12 school institutions in association with the State of Maine initiative.

Microsoft may request that Maine DOE submits an OEM invoice, shipment report or similar documentation as proof of receipt of the Windows® 8 Professional (National Academic Only) licenses.

This LOE will expire 12 months from the date of this letter. Any modifications or extensions to this LOE must be in writing and issued by Microsoft.

Note: Any English-language offering of Windows Product requires use of Microsoft's OEM Activation technology.

Inquiries related to this LOE should be submitted to oemedsku@microsoft.com.

Reference Number: PRI#1392

Note: "Appendix A" referenced above may be downloaded from http://www.maine.gov/mlti/rfp/201210412_microsoft_appendix_a.pdf and a letter of intent for other states may be downloaded from http://www.maine.gov/mlti/rfp/201210412_microsoft_letter_of_support.pdf

Appendix G – Additional Forms – Staff Experience with Similar Projects

Instructions: Provide the following information to describe each senior staff member's experience with a similar project(s) – one form for each project. The information your firm provides will be used to evaluate your staff's experience with projects similar to the work described in this RFP. The Evaluation Team will also use the references your firm provides to verify the work.

Employee Name _____ Employee Position _____

Firm Name _____

Name of Client: _____

Type of Entity: _____ Government _____ School _____ Non-profit _____ For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From _____ To _____

3. Describe the purpose and objectives of work.

4. Describe the nature of work performed.

5. Describe the employees' role relative to this client's project.

6. Describe the employees' role relative to this RFP.

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Appendix G – Additional Forms – Portable Computing Device Specifications Summary

Instructions: Complete this worksheet for each type of technology solution proposed. Fill in each blank with the requested information. You may attach additional pages to provide complete information where required. This bid does not require that all these fields be accounted for, but if a Bidder is providing an option that fits one of these categories, these fields must be completed. Please specify which items are optional, if any. If additional items (fields) need to be added to this list of products and services to best reflect your proposed solution, please make note of this and add any necessary data.

Network Connectivity

Wireless Type _____ Speed _____
 Wired Type _____ Speed _____
 Modem Type _____ Speed _____

Portable Device(s)

Manufacturer _____ Processor Speed _____
 Chip Manufacturer _____ Chip Type _____

Random Access Memory

Chip Type _____ Capacity _____

<u>Data</u>	<u>Type</u>	<u>Capacity</u>	<u>Speed</u>
-------------	-------------	-----------------	--------------

Mass Storage	_____	_____	_____
Optical Drive	_____	_____	_____
Removeable Media	_____	_____	_____

Audio Subsystem

Chipset Manufacturer _____ Model _____
 Audio in Type(s) _____
 Audio out Type(s) _____

Video Subsystem

Chipset Manufacturer _____ Model _____
 VRAM Capacity _____ Ext. Output type _____

Monitor Display

Display Size _____ Characteristics _____
 Resolution _____

Input

Keyboard Type _____ Size _____
 Pointing Device Type (check all that apply)
 Touch Pad _____ Acutrack _____

Roller Ball _____ External Mouse _____

Other _____ Explain _____

Battery

Type _____ Duration _____

Method of Charging _____ Spare battery(y/n) _____

PowerSupply/Batttery Charger

Integrated (y/n) _____ Separate (y/n) _____

Alternate Power Source

Dimensions

Weight – Device only _____ Size _____

Carry Weight with Power Supply, Power Cord, required accessories and Carrying Case

Accessories

Ruggedness

Fully describe features of all components (to include but not be limited to keyboard, laptop case, etc.) designed to withstand extensive use and possible abuse by students.

Please describe other Portable Device specifications

Appendix G – Additional Forms – Wireless Local Area Network (WLAN) Specifications Summary

Manufacturer _____

Wireless Transmission Rate of _____ MB/sec at a range of 50 feet
_____ MB/sec at a range of 100 feet
_____ MB/sec at a range of 200 feet
Maximum Range of _____ feet

Full disclosure of the capabilities and limitations of the wireless technology proposed must be included such as interference between classrooms, distance and object penetration data, and susceptibility to interference from outside sources.

Please describe the average amount of time in hours per month the system will be down for regular scheduled maintenance. Also describe how maintenance will be accomplished so that the impact on system availability is minimized.

Please describe how backup systems will be utilized so that the impact on system availability is minimized.

Please describe other WLAN specifications

**STATE OF MAINE /
NATIONAL ASSOCIATION OF STATE PROCUREMENT OFFICIALS**

REQUEST FOR PROPOSALS AMENDMENT

RFP NUMBER AND TITLE:	201210412, Multi-State Learning Technology Initiative
RFP AMENDMENT NUMBER:	Amendment 1
AMENDMENT DATE:	December 4, 2012
PROPOSAL DUE DATE:	January 11, 2012 at 2:00 pm local time
RFP ISSUED BY:	State of Maine, Department of Education and Division of Purchases, in combination with the National Association of State Procurement Officials (NASPO)
PROPOSALS DUE TO:	Division of Purchases Burton M. Cross Building, 4 th Floor 111 Sewall Street 9 State House Station Augusta, ME 04333-0009
DESCRIPTION OF CHANGES TO RFP: This document represents an amendment to RFP #201210412 and is therefore part of the RFP itself. This amendment contains the answers to the questions that were received from interested Bidders during or before the RFP's Bidders' Conference. Written questions can still be submitted to the RFP Coordinator until 5:00 pm local time on December 12, 2012. Unless specifically addressed below, all other provisions and clauses of the RFP remain unchanged.	

[Questions and answers provided on the subsequent pages of this RFP amendment.]

Question #	Question	Answer
1	Are there any additional states that have signed an Intent to Participate letter for this RFP?	<p>The following states have submitted a letter of Intent to Participate since the release of the RFP:</p> <ul style="list-style-type: none"> • South Carolina <p>Note: This list may be amended to add additional states as they submit letters.</p>
2	Foxcroft Academy's Internet connection speed was not included in Appendix E – State Profiles – Maine. What is their Internet connection speed?	Foxcroft Academy's Internet connection speed is 100Mbps. Additionally, Mid-Coast School of Technology-Region 8's Internet connection speed should have been listed as 20Mbps (not 10Mbps).
3	In the RFP, how is software specified for Vermont and Hawaii? Are they expecting the same image set as Maine?	<p>All Sections and subsections of the RFP apply to all participating states except when labeled with a specific state name. For example, Section 6.6.3.1 Maine and its subsections are Maine-specific information and requirements. Bidders should not assume that State-specific information and requirements necessitate additional tools, equipment, or services. Bidders must describe how its solution meets or exceeds a state-specific requirement as applicable or how its solution will be altered or augmented to meet or exceed a state-specific requirement.</p>
4	Where can we find copies of the responses to the 2006 Maine Learning Technology Wireless Classroom Solution, RFP #1205143? What was the result of that RFP?	<p>There were two bid proposals submitted against RFP #1205143. Copies of these proposals may be downloaded here:</p> <p>Apple Proposal: [http://www.maine.gov/mlti/rfp/docs/1205143/1205143_apple_proposal.pdf]</p> <p>CDWG Proposal: [http://www.maine.gov/mlti/rfp/docs/1205143/1205143_cdwg_proposal.zip]</p> <p>RFP #1205143 was awarded to Apple, Inc. (see press release here: [http://www.maine.gov/tools/whatsnew/index.php?topic=MLTINews&id=151539&v=Details])</p>

5	Will there be multiple awards for this RFP?	The Sourcing Team reserves the right to make multiple awards.
6	Assuming there are multiple awards, can a state elect to enter into a Participating Addendum with more than one awarded bidder?	Yes, but the decision to do so would be based on each individual state's procurement rules and need.
7	<i>Appendix B, Cost Proposal Form, page 62, Table 4 – Optional Features</i> does not specify "per seat" pricing. How should pricing be expressed for Table 4?	Bidders may choose units for pricing of <i>Optional Features</i> .
8	In some states, the technical services proposal portion of the bid is scored prior to the opening of the scoring proposal. Is this how Maine will score this RFP?	Maine procurement rules do not require that cost proposals remain sealed until after the technical services proposal scoring is complete. The State reserves the right to open and review scoring proposals at any time during the evaluation period.
9	The RFP asks for an annual per seat cost proposal for the <i>School Wireless Network Costs (Appendix B, Cost Proposal Form, page 62, Table 3)</i> . <i>Section 7.1.1 (page 34)</i> indicates that Maine owns its current wireless network infrastructure (cabling, switches, access points, etc.). Does Maine own the current wireless network infrastructure?	By the conclusion of the current contract (June 30, 2013), Maine will own the existing network infrastructure (see <i>Appendix E, State Profiles – Maine</i>).
10	The RFP asks for an annual per seat cost proposal for the <i>School Wireless Network Costs (Appendix B, Cost Proposal Form, page 62, Table 3)</i> . Is the per seat cost for the <i>School Wireless Network</i> for the service, the infrastructure, or both?	The per seat cost for the <i>School Wireless Network</i> includes service, infrastructure, and any other costs associated with the wireless network including installation.
11	The RFP asks for many different components including devices, wireless networks, software, and professional development. Can a Bidder respond to only certain parts of the RFP?	While the Sourcing Team will accept all responsive submissions for consideration, Bidders should note that all proposals submitted will be scored against the entire scope of services of the RFP, and evaluated in accordance with the evaluation procedures specified within the RFP.

12	Will the State accept creative proposals that may not match the specifics as detailed in the RFP?	<p>This is already addressed in the RFP:</p> <p><i>Part I, Section B. General Provisions #6:</i> The Sourcing Team, at its sole discretion, reserves the right to recognize and waive minor informalities and irregularities found in proposals received in response to this RFP.</p> <p><i>Part I, Section B. General Provisions #9:</i> If a Bidder cannot provide something as described in the Scope of Services section of this RFP, then that Bidder may propose something that is functionally equivalent, and provide an explanation of that equivalency. Functional equivalency will ultimately be determined by the Sourcing Team.</p>
13	<i>Appendix E, State Profiles – Maine, Section 1.9.2</i> seems to indicate that the State of Maine is seeking solutions for home connectivity. How should we respond to this apparent need?	<i>Appendix E, State Profiles – Maine, Section 1.9.2</i> provides additional information and augments <i>Part II, Section 4.3</i> . As noted in <i>Section 4.3</i> , “It is beyond the scope of this RFP to seek home Internet connectivity for individual users while away from the wireless infrastructure described in Section 7, Network Connectivity and Infrastructure. ”
14	Is the RFP asking for remote Internet access for students or teachers that do not have Internet connectivity at home?	No.
15	Are you willing to extend the RFP deadline to allow for more time to prepare a proposal?	The State reserves the right to extend the deadline for the submission of proposals. If the deadline is extended, Bidders will be notified via a posting to the RFP web site found at http://www.maine.gov/mlti/rfp/ . At this time, the State does not anticipate extending the deadline.
16	Five points of the scoring is awarded for economic impact. Can you define economic impact? We are a Maine-based services company. Would the inclusion of our company by a Prime Bidder be allowable as part of the response to this section?	Economic impact is defined in <i>Part IV, Proposal Submission Requirements, Section B, Subsection 1.1.4</i> on pages 54 and 55. Please note, this economic impact requirement in the RFP is not limited to the State of Maine only. This section should address any state that chooses to participate under this program.

17	Does the scoring of the proposal include preferences for military veteran organizations?	This RFP includes no such preference. While Maine's procurement rules generally do not include preferences, each state's selection criteria may vary when ultimately choosing an awarded Bidder (or Bidders) from among those holding a Master Price Agreement that results from this RFP.
18	Part I, Section F, Contract Term includes information about an anticipated 4 year agreement with up to 6 extension years totaling 10 years. Ten years is a long time in the technology world. Must Bidders provide the same pricing for all ten years?	Bidders' cost proposals should reflect pricing for implementation for the 2013-14 school year, but it is expected that this pricing will be honored for the entire term of the Agreement. If the costs decrease over this period, then the Sourcing Team (or individual states) reserves the right to amend the subsequent contracts and renegotiate more competitive pricing at any time.
19	Must the solution proposed remain static throughout the term of the Agreement or can it evolve over time as technology changes?	The Sourcing Team reserves the right to allow substitutions of equipment or services throughout the term of the Agreement provided these substitutions are functionally equivalent and do not increase the per seat cost, but this is subject to each participating state's procurement rules and practices.
20	Who attended the Bidders' Conference?	See attendee list below.

First	Last	Organization	Email
Shannon	Boelter	Dell	shannon_boelter@dell.com
Shannan	Beltz	Sprint	shannan.beltz@sprint.com
Jose	Burgos	Green Mountain Communications, Inc	jose.burgos@greenmtncomm.com
Maurice	Chagnon	Green Mountain Communications, Inc	m.chagnon@greenmtncomm.com
Jim	Cohen	Verrill Dana	jcohen@verrilldana.com
Bob	Collie	Education Networks of America	bcollie@ena.com
Jon	Davis	Hewlett-Packard Company	j.davis@hp.com
Chad	DeVogt	Systems Engineering	cdevogt@syseng.com
Tai	Dinh	Verizon Wireless	tai.dinh@verizonwireless.com
Adam	Dolan	Discovery Education	adam_dolan@discovery.com
Denise	Donahue	Tech Innovation	denised@techinnovation.com
Amy	Dupuis	Hewlett-Packard Company	amy.dupuis@hp.com
RJ	Fenolio	Verizon Wireless	rj.fenolio@verizonwireless.com
Michael	Trego	Sprint	michael.trego@sprint.com

Jim	Frenchak	K12	jfrenchak@k12.com
Kerry	Gallivan	MSAD 75	gallivan@link75.org
Kevin	Givens	Dell	kevin_givens@dell.com
James	Glusker	Capitol Computers	jglusker@capcomp.com
Laurence	Holt	Amplify	lholt@wgen.net
Lisa	Ivaszuk	Lenovo	livaszuk@lenovo.com
Steve	Johnson	Apple	johnson6@apple.com
Gary	Johnson	Pearson	gary.b.johnson@pearson.com
Tom	Johnson	Capitol Computers	tjohnson@capcomp.com
Bret	King	Apple	bking@apple.com
Dan	Leach	Tilson Technology Mgmt	dleach@tilsontech.com
Brian	Lenaghan	Intel Corporation	brian.lenaghan@intel.com
Tara	Maker	Apple	maker.t@apple.com
Rachel	McCoy	Pearson	rachel.mccoy@pearson.com
Victoria	McEachern	ePals	vmceachern@corp.epals.com
Ruth	Mockus	Hewlett-Packard Company	mockus@hp.com
Richard	Noonan	CDW	richard.noonan@cdw.com
Jamie	Northrup	Middlebury Interactive Languages	jnorthrup@middleburyinteractive.com
John	O'Connell	Amplify	joconnell@amplify.com
Will	Panek	Green Mountain Communications, Inc	will.panek@greenmtncomm.com
Gary	Pegoraro	eInstruction	gary.pegoraro@einstruction.com
Daniel	Pessin	Microsoft	dpessin@microsoft.com
Kimberly	Quinn Hutchinson	K12	kquinnhutchinson@k12.com
Chad	Schaedler	K12	cschaedler@k12.com
Rick	Scott	Red River Enterprise Group	rick.scott@redriver.com
Gray	Sigler	Sprint	gray.r.sigler@sprint.com
Douglas	Snow	Apple	dsnow@apple.com
Brian	Sullivan	Net Technologies	bsullivan@nettechnologiesinc.com
Dean	Velardocchia	Sprint	dean.velardocchia@sprint.com
Paul	Waller	Capitol Computers	pwaller@capcomp.com

21	Will solutions that include functionality above and beyond what is required in the RFP, like mobile access, be considered?	All proposed solutions will be considered, but please note that functionality included in a proposal that is beyond the scope of the RFP will not be included in the scoring of the proposals received. Only those elements described in the RFP will be scored during the evaluation of the proposals.
22	Can you clarify what is meant by <i>Part I, Section B #8</i> and the last paragraph of <i>Part I, Section E</i> ?	The RFP intends to establish a solution that could be implemented in any state, and to establish a cost for that solution. The RFP recognizes that details of implementation will

		<p>likely vary due to specific state or regional issues including state experience and existing capacity. Therefore, the RFP’s cost proposal template includes three pricing Tiers to accommodate some of those differences. In addition, the RFP recognizes that varying pre-existing capacity, infrastructure, experience and other state-specific rules, laws, or environments may require minor alterations to implementation of the solution as described in a Bidder’s proposal. The Sourcing Team expects Bidders to work with participating states to implement their solution within the context of an individual state's environment.</p>
<p>23</p>	<p>Is it conceivable that as states negotiate Participating Addenda, that different pricing could be negotiated with a state based on its individual needs?</p>	<p>Yes, however the intent of this RFP is to coordinate a procurement process among interested states that anticipate implementing a program that is very similar from state to state, in accordance with the requirements detailed in the RFP. Further price negotiations beyond what is proposed will only be allowable in accordance with each individual state’s procurement laws and rules. Also, please note that this specific RFP process to establish Master Price Agreements will not include a “Best and Final Offer” element, so interested Bidders are expected to provide their most competitive pricing with their submitted proposal.</p>
<p>24</p>	<p>Part II, Section 6, page 20 notes that “All devices will be deployed in the first year of the program” but isn’t it possible that a state may elect to join this program in a year subsequent to the first year?</p>	<p>By “first year” the RFP means the initial year of an individual state’s participation. Bidders should be prepared to deploy all devices in this initial year, but states may elect to do staged deployments at their discretion.</p>
<p>25</p>	<p>The RFP does not address E-Rate. How are E-Rate applications handled in this program?</p>	<p>Internet connectivity to the school building is beyond the scope of the RFP, therefore it is not anticipated that applicable E-Rate eligible entities will require documentation or information from Bidders for Priority 1 E-Rate applications.</p> <p>It is not a requirement of the RFP for the Bidder to provide E-Rate submission and management services, but for applicable E-</p>

		<p>Rate eligible entities that elect to file for E-Rate funding support for Priority 2 funding support, Bidders are expected to provide necessary information and documentation as needed to the applicable E-Rate eligible entity.</p> <p>In Maine, it is anticipated that the State of Maine will be the purchaser of all equipment and services that result from this RFP. The State of Maine has not traditionally attempted to seek Priority 2 support from E-Rate. E-Rate application submissions will vary from state to state.</p> <p>In Hawaii, the State Department of Education (aka the SEA) is also the local school department (aka the LEA). Therefore, the Hawaii SEA/LEA does traditionally file for E-Rate funding support. Hawaii reserves the right to do so in regards to this procurement, whether in collaboration with a winning bidder, or independently.</p>
26	Where would we find state-specific National School Lunch data used to support E-Rate applications for schools?	<p>Each state maintains this data separately. For the Sourcing Team states, please see:</p> <p>Maine - https://portal.maine.gov/sfsr/sfsrdev.ed534.ed534_parameters</p> <p>Hawaii – http://arch.k12.hi.us/school/trends/trends.html# (On the left navigation pane, click the year, then the region requested to bring up all the available reports)</p> <p>Vermont – http://education.vermont.gov/documents/EDU-Child_Nutrition_2012_Eligibility_Report.pdf</p>
27	Can subcontractors included by a Prime Bidder be included in more than one bid proposal?	Yes.
28	How old is Maine's existing MLTI-installed wireless network equipment (as listed in <i>Appendix E, State Profiles – Maine</i>)?	The wireless network equipment listed in <i>Appendix E, State Profiles – Maine</i> was installed in the winter of 2009/2010.
29	Currently, the RFP lists four states that have expressed an interest to participate in this	Yes. See Question 1 (above) for additional interested states.

	program (<i>Part I, Section A Purpose and Background</i>). Can additional states be added to this program?	
30	What is the State of Maine's current per seat cost for devices?	Under the State of Maine's current contract, the cost for a device and all associated services is \$242 per seat, per year. Please note, this does not include the cost of wireless network installations or related equipment. The State of Maine's current wireless network pricing was not provided on a per seat basis, but was previously provided on a per school basis. That per school cost was \$7,817. The current RFP specifies that wireless network pricing must be provided on a per seat basis.
31	Is the "per seat" pricing on the Cost Proposal Form (page 62) meant to be cost per seat per year?	Yes.
32	Do Bidders have an opportunity to submit additional questions?	Yes. Written questions can still be submitted to the RFP Coordinator, Jeff Mao (jeff.mao@maine.gov), provided that they are in writing and submitted prior to December 12, 2012, by 5:00 pm.

**STATE OF MAINE /
NATIONAL ASSOCIATION OF STATE PROCUREMENT OFFICIALS**

REQUEST FOR PROPOSALS AMENDMENT

RFP NUMBER AND TITLE:	201210412, Multi-State Learning Technology Initiative
RFP AMENDMENT NUMBER:	Amendment 2
AMENDMENT DATE:	December 18, 2012
PROPOSAL DUE DATE:	January 11, 2012 at 2:00 pm local time
RFP ISSUED BY:	State of Maine, Department of Education and Division of Purchases, in combination with the National Association of State Procurement Officials (NASPO)
PROPOSALS DUE TO:	Division of Purchases Burton M. Cross Building, 4 th Floor 111 Sewall Street 9 State House Station Augusta, ME 04333-0009
DESCRIPTION OF CHANGES TO RFP: This document represents an amendment to RFP #201210412 and is therefore part of the RFP itself. This amendment contains the answers to the questions that were received in writing from interested Bidders prior to the December 12, 2012 due date for submission written questions. The period for submission of written questions has ended. Unless specifically addressed below, all other provisions and clauses of the RFP remain unchanged.	

[Questions and answers provided on the subsequent pages of this RFP amendment.]

Question #	Question	Answer
1	Are there any additional states that have signed an Intent to Participate letter for this RFP?	<p>The following is a revised list of the states that have indicated, in writing, an intent to participate in the Multi-State Learning Technology Initiative:</p> <ul style="list-style-type: none"> • Hawaii • Maine • Massachusetts • Montana • New Jersey • Oklahoma • South Carolina • Vermont <p>Note: This list may be amended to add additional states as necessary.</p>
2	Is this Initiative open to Wireless Providers who are able to supply Tablets?	Yes.
3	Is this strictly a laptop program?	<p>No. Laptops are not specifically requested. The specifications for the requested devices are defined within the RFP. The use of the term “laptop case” in Appendix G – Additional Forms – Portable Computing Device Specifications Summary, page 123 was an administrative oversight. Replace the phrase “laptop case” with “device case”. Instances of the term “laptop” and “tablet” in sections describing Hawaii’s “Digital Materials Using Tablets and Laptops” should be replaced with “portable computing device(s)”. The State of Hawaii seeks the device strategy most appropriate for their context and efforts to implement systemic reforms. These references should not be considered a commitment to purchase a specific type of device, as the decision will be base on the final submission of proposals from vendor.</p>
4	For the Wireless Connectivity, are you looking for something that is hardwired or could it be a Hotspot device? A Hotspot allows for up to 5 people to be connected at once.	<p>The specifications and requirements for Wireless Connectivity are best described in Part II, Section 7, Network Connectivity and Infrastructure. Additionally, please see RFP #210210412 Amendment 1,</p>

		Question and Answer #12.
5	<p>On the recent Multi-state RFP, it wasn't clear to us if this was just for the infrastructure and devices or if you were actually including software that would be used on/by the devices. For example, the wording of the following sections hint at inclusion but it was sufficiently vague that we were hoping for clarification:</p> <p>4.4. Content, Assessment, and Integration</p> <p>4.5. Primary Research Databases</p> <p>Can you clarify that for us?</p>	Please see Part II, Sections 6.6 and 6.7.
6	Can we obtain a list of those that attended the recent Bidders Conference?	Please see RFP 201210412 Amendment 1, Question and Answer #20.
7	Regarding the Software sections of the RFP, are providers allowed to submit proposals that focus solely on the software sections of the RFP?	Please see Part I, Section C – Eligibility to Submit Proposals and Alternate Proposals. Additionally, please see RFP 201210412 Amendment 1, Question and Answer #11.
8	We are a regional company. Can we address the scope of work items for the state or states we fit the best? In other words, can a response be limited to certain states?	Yes, but proposals should address all functional elements of the RFP for the states or region covered.
9	Would you like each copy of the proposal presented in a tabbed binder, stapled packet, spiral-bound booklet, or other?	No specific booklet or binder requirements have been given in the RFP, and therefore, any of the examples in the question (or any other bound, clearly organized method) would be acceptable. For other proposal submission requirements please see PART IV PROPOSAL SUBMISSION REQUIREMENTS.
10	Would you like the forms in the Appendices (excluding Appendix A: Cover Page) to be included at the end of the proposal, or in the complementary Section?	<i>Appendix A – Proposal Cover Sheet</i> should be the first page of the proposal. <i>Appendix B – Cost Proposal Form</i> should be included in Section III Cost Proposal of the proposal. <i>Appendix G – Additional Forms</i> should be included at the conclusion of Section II Specifications of Work to be Performed.

11	We are a Google Apps/ Postini/ Vault reseller, and are also an authorized Chromebook reseller to schools. Would this RFP cover Google and Chrome products?	It is the responsibility of the Bidder to clearly describe how its solution meets the requirements and specifications of this RFP as set forth in the RFP.
12	Section 6.5.1 – Assessments - Will failure to meet the current technical requirements of either existing assessments or potential future assessments disqualify a device from consideration?	A solution’s compliance with and capacity to administer the SBAC or PARCC assessments is extremely important. Failure to meet this requirement will be considered during the scoring and evaluation of the proposal.
13	Part V, Section B(3) - Scoring and Evaluation - If a vendor only bids on one or two of the tiers, would their bid be considered non-compliant?	No, a proposal may be considered compliant even if it does not respond to all tiers.
14	Part I, Section D (page 12) - Number of Awards and Contract Structure - If a vendor submits both a Primary proposal and an Alternate proposal, is each proposal scored and awarded separately?	Yes. All proposals submitted are scored and evaluated independently against the requirements as set forth in the RFP.
15	Will participating states and school districts have the option to purchase either the Primary proposal or the Alternate proposal if both proposals are accepted?	Once awarded, a proposal will be considered simply an “awarded” proposal and not “Primary” or “Alternate”. States will have the option to select one or more awarded proposals to negotiate one or more Participating Addenda based its own procurement rules and practices. Districts within individual states may have the option to purchase against an awarded proposal based on the procurement rules and practices of each individual state.
16	Part I, Section D - Number of Awards and Contract Structure - Per previous question (question #15) - If acceptable, should the price per seat for each be separated (i.e. State price District price) in Table 1 of the Cost Proposal Form?	No. Appendix B, Cost Proposal Form, should be completed as provided in the RFP. Appendix B should not be changed. As per Appendix C, Participant Tier Structure, Tier 1 and Tier 2 states will act as a purchasing aggregator.
17	Part I, Section C - Eligibility to Submit Proposals and Alternate Proposals - Within a vendor's primary or alternate solution, is it acceptable to offer 2 different solutions for middle schools	A Bidder may submit 2 different solutions for middle schools and high schools. Please see Part I, Section C Eligibility to Submit Proposals and Alternate Proposals . In particularly, Bidders should note:

	<p>(teachers and students) and high schools (teachers and students whose district opts-in), as long as both solutions are educationally strong and the professional development appropriately aligned?</p>	<p>“The Sourcing Team is only interested in alternate proposals if the alternate is materially different (such as the use of a completely different personal computing device) than the main proposal.”</p>
<p>18</p>	<p>Appendix D, NASPO Standard Terms and Conditions - Please provide the special terms and conditions that are referenced in the Conflict of Terms provision, page 67.</p>	<p>Appendix D – NASPO Standard Terms and Conditions, is made up of the terms and conditions of the Master Price Agreements that awarded Bidders will be expected to sign as a result of this RFP. This is noted in Part IV, Section 1 (page 58) of the RFP. States that seek to participate under this program will then sign a Participating Addendum, choosing from only those awarded Bidders who have signed Master Price Agreements.</p> <p>Individual states may have state-specific terms that need to be negotiated at the point of signing a Participating Addendum. Any reference in the RFP to “special terms and conditions” should be interpreted as the participating states’ terms and conditions under the subsequent Participating Addenda, unless otherwise noted.</p> <p>The State of Maine intends to use its <i>Agreement to Purchase Services (BP54-IT)</i> as the basis of its Participating Addendum. Please see Appendix E – State Profiles – Maine, Section 1.2 Contract / Participating Addendum for information about Maine’s standard terms and conditions for this program and a link to the BP54-IT document.</p> <p>The State of Hawaii’s General Conditions for Contracts are documented in HRS Chapter 103D The Hawaii Public Procurement Code, and it may be downloaded from http://hawaii.gov/spo/general/gen-cond/general-conditions-for-contracts.</p> <p>The State of Vermont’s standard terms and</p>

		conditions are <i>Standard State Provisions for Contracts and Grants and Commodity Purchases Terms and Conditions</i> , and they may be downloaded from http://bgs.vermont.gov/purchasing/forms .
19	Appendix D, NASPO Standard Terms and Conditions - Please provide the special terms and conditions that are referenced in the Termination provision, page 67, second sentence.	Please see Question and Answer #18 of this Amendment.
20	Appendix D, NASPO Standard Terms and Conditions - Please provide the special terms and conditions that are referenced in the Delivery provision, page 68, fourth sentence.	The “special terms and conditions” referenced in the DELIVERY provision (page 68, fourth sentence) are to be determined based on the Bidders’ proposal and acceptance of agreed upon terms and conditions as set forth in an individual state’s Participating Addendum.
21	Appendix D, NASPO Standard Terms and Conditions - Please provide the special terms and conditions that are referenced in the Nondiscrimination provision, page 69, third sentence.	Please see Question and Answer #18 of this Amendment.
22	Appendix D, NASPO Standard Terms and Conditions - Please provide the special terms and conditions that are referenced in the Firm Price provision, page 70, first sentence.	Please see Question and Answer #18 of this Amendment, however, please also note that the bid validity period for this RFP is 180 days. Pricing should be submitted in accordance with Appendix B – Cost Proposal Form and Appendix C – Participant Tier Structure .
23	Appendix D, NASPO Standard Terms and Conditions - Please provide Attachment A that is referenced on the State Participation/Unique Terms and Conditions provision on page 71, second sentence.	Please see Question and Answer #18 of this Amendment. There is no Attachment A , please disregard that reference.
24	Please confirm that the <i>State of Maine Agreement to Purchase Services (BP54-IT)</i> included with this RFP is actually for both products & services.	Yes, the <i>State of Maine Agreement to Purchase Services (BP54-IT)</i> is for both products and services.

25	<p>Please clarify if the bid validity period is 180 or 90 days. 180 days is specified in Part I, Section B3 (page 11, last sentence), and in Appendix A, Proposal Coverage Page (page 60, first bullet), and 90 days is referenced in Appendix D, NASPO Standard Terms and Conditions (page 70, first sentence of Firm Price provision).</p>	<p>The validity period for pricing provided in a proposal is 180 days as specified in Part I, Section B3 (page 11) and Appendix A, Proposal Cover Page (page 60).</p>
26	<p>Part I, Section D - Number of Awards and Contract Structure, page 12, states, “After the pre-qualified list has been established, each individual state that chooses to participate in this program will be able to select the vendor (or vendors) whose proposed solution would be in the best interests of the participating state’s sole discretion.”</p> <p>Will pre-qualified vendors be similarly empowered to choose whether or not to enter into a participating addendum with a particular state?</p>	<p>Please see Appendix D, NASPO Standard Terms and Conditions, page 71 STATE PARTICIPATION/UNIQUE TERMS AND CONDITIONS, paragraph 2:</p> <p>“After the solicitation has closed and an award has been made, additional NASPO members may be added with the consent of the contractor through the execution of a Participating Addendum.”</p>
27	<p>A clarification regarding Tier One; are the “factors” for the vendor’s guidance only or are they intended to be similar to requirements in which the vendor needs to meet all six factors?</p>	<p>The “factors” included in Appendix C, Participant Tier Structure, are intended to be met by participating states, or be reasonably close for negotiation purposes, in order to qualify for pricing at the tier in question.</p>
28	<p>Are the requirements provided in Part II:</p> <ul style="list-style-type: none"> • Section 10, Professional Development, Curriculum Integration, and Consultation • Section 11, Support and Maintenance • Section 12, Project Management and Implementation <p>all intended to be included in the total cost in Appendix B – COST</p>	<p>Yes.</p>

	PROPOSAL , Table 1?	
29	Appendix B – COST PROPOSAL , Table 4 is intended to be “optional”; presented in addition to 1, 2 and 3. Can a vendor respond to Table 4 only?	No. A cost proposal that only responds to Table 4 would not be considered responsive to the RFP.
30	I represent a language and literacy software company serving K-8 students and we are wondering if we will be considered since the RFP focuses mainly on technologies other than software. The RFP states, “the Provider is not required to provide educational content” (page 27); however, will a vendor still be considered if they only provide educational content (software) and not hardware or other learning technology?	Please see Part I, Section C – Eligibility to Submit Proposals and Alternate Proposals . Additionally, please see RFP #201210412 Amendment 1 , Question and Answer #11.
31	Is inclusion in a RFP response by a primary bidder the only way for a content provider to be considered and included as an optional content service? Are there any alternatives for submitting as one of these optional services by vendors that cannot bid on the full solution?	Please see Part I, Section C – Eligibility to Submit Proposals and Alternate Proposals . Additionally, please see RFP #201210412 Amendment 1 , Question and Answer #11.
32	I saw the RFP posted for the Multi-State Learning Technology Initiative. It looks like the purpose of this RFP is to add additional portable computing devices to the networks within your school districts. My company provides an Internet optimization appliance that allows school districts to eliminate Internet outages while adding additional low cost bandwidth to assist the added need of the mobile devices in the schools. We have acquired a state contract with Arkansas and have seen immense success in providing this	Please see Part I, Section C – Eligibility to Submit Proposals and Alternate Proposals . Additionally, please see RFP #201210412 Amendment 1 , Question and Answer #11.

	<p>technology to their school districts and we are hoping to expand that success. This technology has been made affordable to them with this state contract due to our generous discount we provide to State Contracts.</p> <p>I need to know if it is worth my time to submit a response to this RFP. Will our technology solution still fit within the scope of this RFP?</p>	
<p>33</p>	<p>Part II, Section 3.2 Hawaii Scope of Procurement reads, “The purchase of a digital curricular package will include professional development and technical assistance from the publisher.” Is this professional development related to the digital curricular package only, and thus, is Hawaii seeking other professional development relevant to the hardware solution?</p>	<p>Part II, Section 3.2 Hawaii Scope of Procurement details the total scope of its procurement plans. Some of the goods and services details in this section are beyond the scope of this RFP (“...the state will separately purchase curricular materials...”). The State of Hawaii is seeking all goods and services as described in this RFP (while not anticipating requiring assistance with the wireless network components, Hawaii reserves the right to request assistance).</p> <p>Please see Part II, Section 10 Professional Development, Curriculum Integration, and Consultation for more information about the RFP’s requirements for professional development.</p> <p>For more information about Hawaii’s plans for wireless network connectivity, please see Part II, Section 7.1.2 Hawaii – Existing Wireless Networks.</p>
<p>34</p>	<p>Part II, Section 6.3 Students – Please provide a table clarifying the number of students/faculty in MT and SC through 2024? This was done for ME, VT and HI on pages 21-23, but no estimates were given for MT and SC, (which recently signed on as a participating state).</p>	<p>No estimates are currently available for Montana and South Carolina.</p>

35	<p>Part II, Section 6.2.1.1 Maine Teachers and Staff – “In 2009, the Department’s initial count for total eligible staff for grades 7-12 was 11,869.” Can you please provide an estimated breakdown of quantities of the various types of staff within this number?</p>	<p>The State of Maine established an eligibility guideline for teachers and staff. These guidelines may be viewed on page 21 of the MLTI Manual found here:</p> <p>http://www.mlti.org/manual</p> <p>Schools used these guidelines to report to the State the total eligible teachers and staff at each school site. As such, the State of Maine does not have a breakdown of the various types of staff. Additionally, while the State of Maine does include many different staff roles in its description of eligibility, it does not differentiate the device or tools on the device for various roles. For specific role-based needs in a school beyond what is described in this RFP, it is presumed that the local school will separately procure and augment the solution for those needs.</p>
36	<p>Part II, Section 6.8.2 Maine Pre-service Teachers and Higher Education – “Bidders must describe its plan to allow higher education institution teacher preparation programs in Maine to participate in the MLTI and provide devices and necessary services to the institution and pre-service teachers” Please share what types of services or programs are already in place or have been offered or provided as part of this initiative in the past? What level of exposure already exists for Pre-service Teachers and Higher Education?</p>	<p>Currently, the Maine Learning Technology Initiative (MLTI) has very limited formal programs in place with higher education institutions. MLTI just began an information exchange/collaborative between the Pre-Service programs at Maine’s largest public Universities (University of Maine Orono, University of Maine Farmington, and University of Southern Maine). The extent of this collaborative is limited to facilitated exchanges of information about practices, needs, and strategies for supporting pre-service teachers in a modern 1:1 K-12 classroom environment. Additionally, student teachers from any higher education institution placed in a participating MLTI school is provided an MLTI device as if they were a regular member of the teaching faculty at that school for the duration of their student teaching.</p>
37	<p>Part II, Section 6.8.2 Maine Pre-service Teachers and Higher Education – Can the State provide</p>	<p>The State of Maine does not have data related to the anticipated demand. Part II, Part II, Section 6.8.2 Maine Pre-service</p>

	<p>the details of the anticipated demand for leasing agreements - term and type?</p>	<p>Teachers and Higher Education does not specify leases as the financial arrangement. Note that it reads:</p> <p>In addition, Bidders <i>must propose how it intends to structure any financial arrangements</i> including potential leases, invoicing, etc.</p> <p><i>[Italics added for emphasis]</i></p>
38	<p>Part II, Section 7, Network Connectivity and Infrastructure – First paragraph of that section states that Power-over-Ethernet (PoE) is preferred.</p> <p>a. What are we powering with each switch?</p> <p>i. Access Points (AP)?</p> <p>ii. VOIP Phones?</p> <p>iii. IP Cameras?</p> <p>b. How many of what devices for each switch?</p>	<p>Please see Part II, Section 7.2 Local Network and Access, fourth sentence:</p> <p>“A Provider will be responsible for the <i>design, installation, configuration</i>, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement.”</p> <p><i>[Italics added for emphasis]</i></p>
39	<p>In <i>general</i>, if we are using an existing network to build out the wireless solution, will the schools be responsible for SmartNet on existing equipment? If yes, what is the warranty term?</p>	<p>Please see Part II, Section 7.1.1 Maine – Existing MLTI Wireless Networks:</p> <p>“If a Providers solution includes existing MLTI network devices or infrastructure, the Provider must agree to provide full warranty/performance coverage as it would with newly installed devices or infrastructure.”</p>
40	<p>Part II, Section 7 Network Connectivity and Infrastructure – Is the current infrastructure being ripped and replaced?</p> <p>a. If so, are schools interested trading in the current equipment?</p> <p>b. If there IS a trade in, will the State</p>	<p>Bidders should not assume the existence of a wireless network infrastructure. Bidders should propose its solution for providing a new wireless network infrastructure as described in Section 7 Network Connectivity and Infrastructure.</p> <p>In Maine, Bidders may optionally utilize the existing equipment as part of its</p>

	be able to provide a trade in estimate?	solution as per Part II, Section 7.1.1 Maine – Existing MLTI Wireless Networks . As per RFP #201210412 Amendment 1 , question 9, the State of Maine will own the network equipment as detailed in Appendix E, State Profiles – Maine at the conclusion of the current agreement (June 30, 2013). If a Bidder’s solution does not utilize this equipment, the State will redeploy the equipment to serve schools not participating in the 1:1 program. That redeployment is outside the scope of this RFP.
41	<p>Part II, Section 7.1.1 Maine – Existing MLTI Wireless Networks - “If a Providers solution includes existing MLTI network devices or infrastructure, the Provider must agree to provide full warranty/performance coverage as it would with newly installed devices or infrastructure.”</p> <p>In order to comply with the above, we would like more information about the current network, age and condition of the legacy equipment, as well as information about the balance of manufacturer warranty so that we can factor into our costs and solution. What additional information can the State provide on this topic?</p>	Please see RFP #201210412 Amendment 1 , Question and Answer #28 and RFP #201210412 Amendment 2 , Question and Answer #39 and #40.
42	Part II, Section 7.2 Local Network and Access – Are Redundant Power Supplies required for switches if those switches support them (ie. 3560X Series switches)?	Please see Part II, Section 8.6 UPS .
43	Part II, Section 7.2 Local Network and Access – What routing requirement are there for each switch? LAN Base, IP Base or IP Services (Layer 2, Layer 2+, Layer	Please see Part II, Section 7.2 Local Network and Access , fourth sentence: “A Provider will be responsible for the <i>design, installation, configuration, and on-</i>

	<p>3)?</p> <p>a. Will different IOS’s be required for different closets?</p> <p>b. If so, that will be required info for the port count per closet.</p>	<p>going maintenance and support of the wireless network infrastructure for the term of the Agreement.”</p> <p><i>[Italics added for emphasis]</i></p>
<p>44</p>	<p>Part II, Section 7.2.2 Wireless Access – Do the existing access point counts per location sufficiently cover the location or do they require any additional access points?</p>	<p>Bidders should not assume the existence of a wireless network infrastructure. Bidders should propose its solution for providing a new wireless network infrastructure as described in Section 7 Network Connectivity and Infrastructure.</p> <p>In Maine, Bidders may optionally utilize the existing equipment as part of its solution as per Part II, Section 7.1.1 Maine – Existing MLTI Wireless Networks. As per RFP #201210412 Amendment 1, Question and Answer #9, the State of Maine will own the network equipment as detailed in Appendix E, State Profiles – Maine at the conclusion of the current agreement (June 30, 2013). If a Bidder’s solution does not utilize this equipment, the State will redeploy the equipment to serve schools not participating in the 1:1 program. That redeployment is outside the scope of this RFP.</p> <p>Maine’s current provider’s solution satisfies the network coverage requirements of the current contract.</p>
<p>45</p>	<p>Do the existing access point counts provide 1:1 AP: Classroom coverage for any 1:1 Wireless programs coming forth?</p> <p>i. Is a 1:1 program expected at all locations?</p> <p>ii. How many additional access points per site would be needed to</p>	<p>i. Please see Part II, Section 7.2.1 Wireless Coverage.</p> <p>ii. Please see Part II, Section 7.2 Local Network and Access, fourth sentence:</p> <p>“A Provider will be responsible for the <i>design, installation, configuration</i>, and on-going maintenance and support of the wireless network infrastructure for the term</p>

	<p>achieve this?</p>	<p>of the Agreement.”</p> <p><i>[Italics added for emphasis]</i></p>
<p>46</p>	<p>Part II, Section 7.3.1 Portability – What are the port counts required for all the switches?</p> <p>a. Are they going to standardize on a 48pt Full PoE Switch to replace each? That would be easiest so that there are not multiple configurations for different closets and schools.</p> <p>b. Can they supply this port count by closet so we know what switches connect to what?</p> <p style="padding-left: 40px;">i. If multiple switches in a closet do they prefer stacking to uplinks or vice versa?</p> <p>c. At current there are no Fiber connectivity statistics. We need both copper and fiber port count requirements as well as if the fiber connections are Multimode or Singlemode to formulate a valid BoM.</p> <p style="padding-left: 40px;">i. Are uplinks between closets 1G or 10G?</p> <p style="padding-left: 40px;">ii. If Multimode, 50 or 62.5 micron fiber and what is the distance?</p> <p style="padding-left: 40px;">iii. If Singlemode, what is the distance?</p> <p style="padding-left: 40px;">iv. What connections are at their fiber patch panels? What length jumper cables would be needed to connect the switches?</p>	<p>Please see Part II, Section 7.2 Local Network and Access, fourth sentence:</p> <p>“A Provider will be responsible for the <i>design, installation, configuration</i>, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement.”</p> <p><i>[Italics added for emphasis]</i></p>
<p>47</p>	<p>Is there any Core Networking infrastructure required here at any of these sites or a centralized site?</p>	<p>Please see Part II, Section 7.2 Local Network and Access, fourth sentence:</p> <p>“A Provider will be responsible for the <i>design, installation, configuration</i>, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement.”</p>

		<i>[Italics added for emphasis]</i>
48	<p>On sites where there are multiple WLAN controllers do we need to stay with that configuration or would 1 controller per site be effective?</p> <p>a. If multiple controllers are required, how many licenses are needed for each controller?</p>	<p>Please see Part II, Section 7.2 Local Network and Access, fourth sentence:</p> <p>“A Provider will be responsible for the <i>design, installation, configuration</i>, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement.”</p> <p><i>[Italics added for emphasis]</i></p>
49	<p>We intend to provide the State of Maine and NASPO with a comprehensive contract that accounts for schools on the very beginning of the 1:1 planning as well as large districts with investments already made with respect to wireless connectivity. With that goal in mind, we find that the per seat pricing including wireless access points may be inequitable comparing larger districts to the smaller schools and administration offices in the rural areas. We suggest the wireless solutions should be broken out on a “per unit” basis, rather than per seat to allow for adequate coverage without unnecessary inflation of the per seat price. If not acceptable for Maine, could the NASPO portion of the Agreement be structured this way to have adequate flexibility?</p>	<p>No. Interested Bidders should respond using the Cost Proposal Form provided as Appendix B of the RFP.</p>
50	<p>Part II, Section 9.5.1 Warranty – Warranties typically run from date of delivery. For clarity, is the intent of this provision to have a warranty through the initial term of the agreement (4 years, so at minimum through June 30, 2017) and not through the entire potential of the agreement (June 30, 2023)?</p>	<p>Please see Part II, Section 9.5.1 Warranty, third sentence:</p> <p>“Consistent with the requirements of this Section of the RFP, the Provider shall warranty against normal wear and tear and ensure the delivery of all services for the term of the agreement.”</p>

51	Assuming renewals are not included, what then is the minimum desired warranty for a unit sold in 2018?	Please see Part II, Section 9.5.1 Warranty , third sentence: “Consistent with the requirements of this Section of the RFP, the Provider shall warranty against normal wear and tear and ensure the delivery of all services for the term of the agreement.”
52	Part II, Section 9.5.1 Warranty – Similar to repair, are replacement units required through June 30, 2017 or including any renewals? Assuming renewals are not included, what then is the minimum replacement coverage for a unit sold in 2018?	Please see Part II, Section 9.5.1 Warranty , last sentence: “Notwithstanding the cause of any loss, the Provider must provide replacement units in a timely manner and at a reasonable cost for the term of the Agreement.”
53	Part II, Section 9.5.4.1 Maine Theft/Loss – Is similar data available for any other opt-in state? If so, please provide.	No other state has an existing statewide 1:1 program, therefore no other data is currently available.
54	Part II, Section 10 Professional Development, Curriculum Integration, and Consultation – Since it is well recognized that the implementations will vary state-to-state, is there a set of base requirements for “appropriate amount” of the various types of professional development that should be included in the base price per seat? Please provide “appropriate amounts” used for MLTI as a basis for comparison or levels used and estimated adjustments recommended from the experience.	The “appropriate amounts” in this context should be proposed by the Bidder based upon the Bidder’s experience implementing and understanding of its own proposed solution.
55	Part II, Section 10.2.1 Educator Professional Development – The list of challenges is very helpful. Can you also offer some insights into what the Maine DOE considers the more successful aspects of the professional development program	Please see Part II, Section 10 Professional Development Curriculum Integration, and Consultation . Additionally, for more information about Maine’s current program, please see http://www.maine.gov/mlti/ .

	to-date?	
56	Part II, Section 12.1.8 Project Staffing – Please provide a minimum expectation for meeting the “in-state” requirement? Is the project defined separately from the Agreement? Is this expectation consistent for all opt-in states?	“In-State” means that the project team provided by the Provider be located in the participating state. It is anticipated that each participating state would require its own project team to support the program.
57	Part II, Section 12.1.8 Project Staffing – Please provide clarification as to how you are differentiating the role of an “Education Specialist” versus a “Professional Development Specialist?”	An Education Specialist is an individual that has expertise in teaching and learning. A Professional Development Specialist is an individual with expertise in staff development and would be directly involved with the delivery of professional development.
58	Appendix B Cost Proposal Form – Please clarify that for Table 2, the Volume Discount Factor Percentage discount for every 500,000 seats of “increased participation”, is for each instance of a 500,000 unit milestone? Also, when is participation measured to effect this additional discount (e.g. for commitments at contract launch vs. throughout period)? Do latent participants intended to benefit from an increased discount that early adopters did not receive?	The percentage discount is for each instance of 500,000 seats, collectively across all participating states with a Participating Addendum with the same solution. When a milestone is reached, all participating states should benefit from the discount.
59	As the State has mentioned different Specifications for several types of device - Student/ Teacher/ Grad Student etc., we would like to be able to offer corresponding “per seat” pricing for each type to maximize savings. This way no State will carry an undue burden of cost to the inherent “averaging” required to arrive at a per seat price.	Part II, Section 6.2.1 Teachers and Staff , second sentence reads: “The teacher’s device may be the same as the student’s device or may be a more fully capable device.” Otherwise, Part II, Section 6.5 Device Functional Requirements and Part II, Section 6.6 Software and Function do not mention different specifications for several types of device for different users.
60	Will the State alter the Cost Proposal to be more flexible in presenting	No. Interested Bidders should respond using the Cost Proposal Form provided as

	pricing and thus more competitive for each user community (students, teachers, administration) to provide prices on a per seat basis by user type?	Appendix B of the RFP.
61	Appendix E – State Profiles – Maine, Section 1.6, Wireless Network Infrastructure – On sites where access points are listed without a WLAN controller, where are those access points managed? (ie. SAU ID 1213 Caribou regional Applied Tech Center).	Three pairs of schools share physical buildings and internal network infrastructure. Therefore, from a network design perspective, each pair may be treated as a single network infrastructure location. Those pairs are: <ul style="list-style-type: none"> • 1213 Caribou Regional Applied Tech Ctr and 1212 Caribou High School • 1149 Cony High School and 1153 Capital Area Technical Center • 1534 Hall-Dale High School and 1535 Hall-Dale Middle School
62	Appendix G – Additional Forms – Staff Experience with Similar Projects , page 121 – Given that the State contemplates a potential ten year term of the agreement, please confirm expectations that these technical role profiles are representative of the caliber of present and continuing resources associated with the Provider, and not specific named resources for the duration of the potential award.	The Sourcing Team acknowledges that staffing may change over the term of the Agreement and that the number of participating states is unknown. Therefore responses may be representative examples. However, to the degree that a Bidder can identify actual individuals who would serve on the initial project teams for each of the Sourcing Team states (ME, HI, VT), the Sourcing Team would appreciate named resources.
63	Does Maine anticipate awarded vendor(s) to maintain pricing for 1:1 devices across all states that have/will participate in this contract?	Please see Appendix B – Cost Proposal Form and Appendix C – Participant Tier Structure . Pricing is expected to remain consistent across Tiers for all participating states. Additionally, please see RFP #201210412 Amendment 1 , Question and Answer #22 and #23.
64	Is the expectation to have consistent/set prices for all services across all states that participate? Will awarded vendor have the ability to negotiate different rates for individual states based on each	Please see Appendix B – Cost Proposal Form and Appendix C – Participant Tier Structure . Pricing is expected to remain consistent across Tiers for all participating states. Additionally, please see RFP #201210412 Amendment 1 , Question and

	state's unique economic conditions?	Answer #22 and #23.
65	Is the expectation to have consistent/set prices for all hardware devices (including networking, servers, storage, laptops, tablets, desktops, etc) across all states that participate? Will awarded vendor have the ability to negotiate different rates for individual states based on each state's unique economic conditions?	Please see Appendix B – Cost Proposal Form and Appendix C – Participant Tier Structure . Pricing is expected to remain consistent across Tiers for all participating states. Additionally, please see RFP #201210412 Amendment 1 , Question and Answer #22 and #23.
66	Will Maine provide a full list of each state that has currently expressed interest in participating and also have their expected 1:1 device counts shared per state? Number of school districts with enrollment numbers would be very beneficial.	Please see RFP #201210412 Amendment 1 , Question and Answer #1 and RFP #201210412 Amendment 2 , Question and Answer #1. Additionally, please see RFP #201210412 Amendment 2 , Question and Answer #34.
67	Will Maine accept multiple devices for their 1:1 initiative in order to offer freedom of choice per school and per use demands?	Please see Part I, Section C Eligibility to Submit Proposals and Alternate Proposals and Part I, Section D Number of Awards and Contract Structure .
68	There is information on the Student Information System used in Maine – do all districts use the same Infinite Campus and Power School systems?	The State of Maine has one standard version of Infinite Campus deployed across the state. Any upgrades are done all at once statewide. We are currently at E.1242. PowerSchool installations are procured and managed locally. No version data for PowerSchool is available.
69	For other states – What are the Student Information Systems currently used in the States/Districts? Can you provide a list by district?	This information is currently not available.
70	What are the Learning Management Systems (LMS) currently used in the States/Districts? Can you provide a list by district? Only Hawaii is listed as, “Many Hawaii schools use the Global Scholar Pinnacle Instruction	While no one LMS is used consistently across either the State of Maine or Vermont, Bidders may consider the following: <ul style="list-style-type: none"> • The Vermont Virtual Learning Cooperative (http://www.vtvlc.org) uses

	Learning Management System”.	<p>Moodle.</p> <ul style="list-style-type: none"> • Maine’s AP4ALL (http://www.ap4all.org) uses Moodle. • Maine’s current 1:1 solution includes a Studywiz environment. It is not used heavily.
71	Due to the complexity of this RFP along with the upcoming holiday break, would Maine consider giving all vendors responding to this RFP an extension to Friday February 1?	Please see RFP #201210412 Amendment 1 , Question and Answer #15.
72	Part II, Section 3.2 Hawaii Scope of Procurement – In this section the content states “(Hawaii) is currently planning to purchase tablets for elementary and middle grades” and further, “contract to purchase tablets will also include corresponding technical assistance to complement the curricular package”. Please clarify or expand upon requirements for “corresponding technical assistance” for tablets.	Please see RFP #201210412 Amendment 2 , Question and Answer #33.
73	Part II, Section 3.2 Hawaii Scope of Procurement – Is there a requirement for an optical drive and how it might be used in the system?	No, there is no requirement for an optical drive in the system.
74	Part II, Section 5.2.2 Hawaii Opt-in and Part II, Section 5.2.3 Vermont Opt-in – What is the anticipated formal opt-in timeframe in Hawaii and Vermont?	<p>Hawaii expects opt-in to occur in late May or June of 2013. However, the first year of deployment may see a one-time shift in the opt-in period, as budget distributions in Hawaii normally occur in early July.</p> <p>Vermont has declined to respond.</p>
75	Part II, Section 6.1.2 Hawaii Participating Users and Part II, Section 6.1.3 Vermont Participating Users – What is the opt-in timeframe for local schools in Hawaii and Vermont, and when will they be able to confirm funding support?	<p>Hawaii expects opt-in to occur in late May or June of 2013. Confirmation of state level budgets normally occurs in late June.</p> <p>Vermont has declined to respond.</p>

76	Part II, Section 6.5 Device Functional Requirements – Is there a docking station requirement?	No, there is no docking station requirement.
77	Part II, Section 6.5 Device Functional Requirements – Does the state require support for 802.11a WiFi standard or is 802.11b/g/n acceptable?	The Bidder’s proposed device must include WiFi standards support to allow it to meet any and all functional requirements as set forth in the RFP and at the minimum leverage the WiFi solution included in the solution Part II, Section 7 Network Connectivity and Infrastructure . Ideally, the device would include support for multiple standards to provide increased flexibility of use in non-school environments.
78	Part II, Section 6.5 Device Functional Requirements – Is there a minimum processor requirement? Is there a set of minimum specifications for the tablets?	There is no minimum processor requirement. Bidder’s should keep in mind the processor’s capacity in its solution to meet and/or exceed the functional use of the solution as described in the RFP.
79	Part II, Section 6.5.2 Device Connectivity – Does the State require single or dual band Wi-Fi connections or is this something that may have to change for specific locations? If so does the State know which locations require single band and which require dual band?	Bidder’s should keep in mind the device’s connectivity capacity in its solution to meet and/or exceed the functional use of the solution as described in the RFP. In addition, please see Part II, Section 7.2 Local Network and Access , fourth sentence: “A Provider will be responsible for the <i>design, installation, configuration, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement.</i> ” <i>[Italics added for emphasis]</i>
80	Part II, Section 6.5.13 Boot Time/Wake Time – How critical are boot time and wake times? Would you consider SSD’s as an option to improve boot time even though they will increase the cost?	The RFP best describes the Boot Time/Wake Time requirements.
81	Part II, Section 6.5.14 Upgrades – What type of upgrades is the State considering? Would the proposition for upgrades come from the schools or from the supplier?	Part II, Section 6.5.14 Upgrades reads: “Upgrades to the portable computing device, <i>if proposed</i> , during the term of the contract will be done within the per seat cost at a time that does not impact teaching

		and learning.” <i>[Italics added for emphasis]</i>
82	Part II, Section 6.6 Software and Function – Some of the described software can take advantage of more advanced hardware. Is the State willing to consider more advanced systems for specific use cases?	The RFP seeks a 1:1 computing solution. Bidders should design its solution to provide each student and teacher with the tools and functionality as described in the RFP.
83	Part II, Section 6.6.9 Software Updating – Are any schools currently using a management tool to track and enforce updates? If so, what and which locations?	Maine’s current solution includes the functionality to push updates to the portable computing device over the network for all sites. This solution is specific to the current solution. Bidders must specify how it plans to meet the requirements as described in Part II, Section 6.6.9 Software Updating .
84	Part II, Section 9.4 Backups – Clarity needed around the extent of backup required on the portable computing device. Is the student or the vendor responsible for backup and restoration of personal user files such as music and photos? Is vendor free to limit backup to specified education folders associated with classroom applications only?	Please note Part II, Section 9.4 Backups , final sentence: “The Bidder must describe the capacity and features of its backup solution, and which data would be recoverable by the user, by a school administrator, or by provider.”
85	Part II, Section 9.4 Backups Is there a networked backup solution in place in any of the schools already? If so, what and which locations?	Maine’s current solution includes a networked backup solution for all sites specific to the current solution. Bidders must specify how it plans to meet the requirements as described in Part II, Section 9.4 Backups .
86	Part III, Section A Timeline of Key RFP Events – At this time, the Due Date for Receipt of Proposals is “January 11, 2013 at 2:00pm, local time”. We respectfully request an extension due to the timing of holidays and end of year vacation schedules that would only provide more competitive responses benefiting NASPO, participants and procuring entities.	Please see RFP #201210412 Amendment 1 , Question and Answer #15.

87	<p>Part III, Section C(2) Summary of Questions and Answers – At this time, the deadline for answers to be provided in response to bidder questions and the date the bid is due is “no later than seven (7) calendar days before the due date”. Would the State be willing to consider a 14 day period after final answers are provided to allow for more complete incorporation of information provided in final answers into the bidder’s response?</p>	<p>Maine procurement rules define that responses to Bidder questions be published no later than seven (7) calendar days prior to the proposal due date. However, all attempts will be made to provide responses as quickly as possible in order to allow Bidders more time to incorporate the information provided in their responses.</p>
88	<p>Appendix B – Cost Proposal Form – Can a bidder expand the Cost Proposal Form to address each Financial Option (ref: App. D, Comprehensive Financial Options) it elects to bid?</p>	<p>Please consider the clause entitled “Comprehensive Financial Options that Should be Included” of Appendix D to be deleted in its entirety. Bidders should determine and propose the most cost effective financial option for that Bidder’s proposed solution, and relay that proposal through the Cost Proposal Form that is provided as Appendix B to the RFP.</p>
89	<p>Appendix B – Cost Proposal Form – Re: Section 3.2 “Hawaii Scope of Procurement” content and plan to purchase tablets. May bidders expand Pricing Table 1 (further defined in Amendment 1 to be an Annual “Cost proposed per-seat” by Tier) to allow for separate pricing for Tier 1, 2 and 3 pricing for laptops, and Tier 1, 2 and 3 pricing for tablets</p>	<p>No. Please see Part I, Section C Eligibility to Submit Proposals and Alternate Proposals, second paragraph.</p>
90	<p>Appendix C – Participant Tier Structure – To assist vendors with interpretation of “Factors” given and with responding with appropriate Tier 1, 2 and 3 pricing, would the State please provide the NASPO interpretation or determination of Tier for each of the 5 currently identified participating states.</p>	<p>No. Each state’s “Tier” is subject to change during this RFP process and throughout the life of this program. Tier determinations will be made prior to setting up a Participating Addendum for each individual state.</p>
91	<p>Appendix D – NASPO Standard Terms and Conditions, Comprehensive Financial Options, page 72 – A purchase price financial option is requested. In this option</p>	<p>Please consider the clause entitled “Comprehensive Financial Options that Should be Included” of Appendix D to be deleted in its entirety. Bidders should determine and propose the most cost</p>

	<p>are we to assume a purchasing entity will issue an order to purchase the device and related recurring services for a specified period, and advise period length: 1, 2, or 3 years? In this option is the cost per seat to include the price of the device plus related services (excluding Wireless Network services)? Will the purchase order allow for the upfront purchase of the device plus related services for the entire term of related recurring services (assuming it exceeds one year)? If not, should separate line item pricing be provided for the device, and related recurring services (and for what specified term period)? Is it appropriate to assume the School Wireless Network Costs will be a separate line item on purchase orders, and treated as a one-time, non-recurring expense for the purchasing entity?</p>	<p>effective financial option for that Bidder's proposed solution, and relay that proposal through the Cost Proposal Form that is provided as Appendix B to the RFP.</p>
92	<p>Appendix D – NASPO Standard Terms and Conditions, State Participation/Unique Terms and Conditions, page 72 – Will the State provide the referenced Attachment A, or clarify what constitutes the cross-reference of an Attachment A in the Solicitation?</p>	<p>Please see the answer to Question and Answer #18 of this Amendment. There is no Attachment A, please disregard that reference.</p>
93	<p>Appendix E – State Profiles – Section 4 Additional NASPO Intent to Participate, Additional States – Montana: In reviewing the 2013 and 2014 State Education budget there does not appear to be a funded commitment to a 1:1 student education initiative, nor mention of a move in this direction. Can you point to Montana state legislation, budget or public information that supports commitment to a 1:1 managed program?</p>	<p>The State of Montana has submitted an <i>Intent to Participate</i> letter to NASPO consistent with standard NASPO cooperative purchasing practices.</p>

94	Montana: Will information for Montana such as: “Scope of Procurement”, “Student Count Estimates”, “Deployment”, and “Services Provided by Other Entities” be provided? (Sections 3 through 6.3. pages 15-23 and Appendix E, page 120)	No, this information is not currently available.
95	South Carolina has signed a letter of intent to participate. In reviewing the 2013 and 2014 State Education budget there does not appear to be a funded commitment to a 1:1 student education initiative, nor mention of a move in this direction. Can you point to South Carolina state legislation, budget or public information that supports commitment to a 1:1 managed program?	The State of South Carolina has submitted an <i>Intent to Participate</i> letter to NASPO consistent with standard NASPO cooperative purchasing practices.
96	South Carolina: Will information for South Carolina such as: “Scope of Procurement”, “Participation by Schools”, “Student Count Estimates”, “Deployment”, and “Services Provided by Other Entities” be provided? (Amendment 1, Question 1, page 2; Sections 3 through 6.3. pages 15-23 and Appendix E, page 120)	No, this information is not currently available.
97	Is it a requirement that new devices be compatible with the existing assets that Maine teachers and students have created with all current software, specifically iTunes? or iTunes U?	Please see Part II, Section 6.6.5 Distance and Online Learning and Part II, Section 10.1.1 Maine Transition Support .
98	Question: In Part II, Section 4.5 Primary Research Databases – Reference is made to centralized, coordinated access to online and electronic content, databases, and other similar resources. What current content is being used in the participating states?	<p>Answer: The State of Maine’s virtual library, MARVEL can be found at http://www.maine.gov/marvel/. Complete listings of resources available in MARVEL can be found at that site.</p> <p>Hawaii uses the following electronic resources, among others: http://www.librarieshawaii.org/Serials/databases.html http://sls.k12.hi.us/learningresources/Learning_Resources/Welcome.html</p>

	Vermont's Online Library can be found at http://www.vtonlinelib.org . Complete listings of resources available in the Vermont OnlineLibrary can be found at that site.	
99	Part II, Section 9.6. Asset Management – Requires a system to view details on all assets including the portable digital device, network switches, servers, wireless access point, etc.; however, the Cost Proposal Form isolates the cost per seat for the student/teacher learning technology solution and the school wireless costs separately. Where should the cost of the asset management solution be represented?	It is anticipated that not all participating states will require the network infrastructure described in Part II, Section 7 Network Connectivity and Infrastructure . As such, those states would not require asset management services related to network assets. Therefore the <i>Cost Proposal Form</i> separates the network costs from the per seat cost of the other equipment and services. Associated costs to include the asset management services for equipment included as part of the Bidder's solution as described in Part II, Section 7 Network Connectivity and Infrastructure should be reflected in Appendix B, Cost Proposal Form, Table 3 – School Wireless Network Costs .
100	Can a sample schedule of the previous year(s) dates/locations of education conferences be provided to help us understand fully the requirements of Section 12.1.3. Educational Conference?	Maine's schedule of professional development offerings and conferences hosted by MLTI can be found here: http://www.maine.gov/mlti/events/ MLTI also participates in many annual events in Maine hosted by other Maine educational organizations including: ACTEM (http://www.actem.org) MSMA (http://www.msmaweb.com) MAMLE (http://www.mamleonline.org) MCSS (http://mainecouncilsocialstudies.org) MPA (http://www.mpa.cc)
101	Is the Bidder obliged to provide products and services for any entity that expresses interest to participate in the program?	Please see Appendix D, NASPO Standard Terms and Conditions , page 71 STATE PARTICIPATION/UNIQUE TERMS AND CONDITIONS , paragraph 2: “After the solicitation has closed and an

		award has been made, additional NASPO members may be added with the consent of the contractor through the execution of a Participating Addendum.”
102	Just found out about the MLTI RFP and want to find out how we can get Inspiration® and Kidspiration® in on 6.6.1.7 concept mapping?	Please see Part I, Section C – Eligibility to Submit Proposals and Alternate Proposals . Additionally, please see RFP #201210412 Amendment 1, Question and Answer #11 .
103	Part I Introduction, Section A – Purpose and Background - What is the relationship between MLTI, WSCA and NASPO? Is there a long-term plan to merge the mission of WSCA and MLTI in the future?	<p>MLTI is a program of the State of Maine. Maine’s program will continue to operate within Maine. Maine will be using this RFP process as the competitive basis for the continuation of the program. A state may choose to create its own program at any time. Participating states will use this RFP process and resulting cooperative contracts as the basis for their programs, at their discretion.</p> <p>WSCA is the 15 state procurement directors from the Western Region of NASPO, plus Minnesota and South Dakota, who have been working together for 20 years to create cooperative contracts. It has never been a “legal entity”, just simply 15 state procurement directors working together. Because of the growth of WSCA’s cooperative contracts, effective January 1, 2013, support and management of the NASPO and WSCA cooperative contracting efforts will be shifted to the WSCA/NASPO Cooperative Purchasing Organization. Our contracts will be named WSCA/NASPO contracts (WSCA/NASPO Multi-State Learning Technology Initiative in this case).</p> <p>There are no plans to merge the missions of WSCA and MLTI.</p>
104	Part I Introduction, Section A – Purpose and Background - If a current NASPO member state chooses to participate in the Multi-State Learning Initiative Cooperative Purchasing and that member state	Cooperative contract participation by states is neither restrictive nor exclusive. States will decide what cooperative contracts to participate in based on their requirements and choices. The WSCA/NASPO PC Contracts are contracts to purchase

	currently has a WSCA participating addendum, which contract will control purchasing through this MLTI initiative – the current WSCA Participating Addendum or the new MLTI Participating Addendum? If all purchases for this initiative will go through the MLTI Participating Addendum, will the current WSCA Participating Addendum be terminated?	hardware. The WSCA/NASPO Multi-State Learning Technology Initiative contracts (resulting from this RFP) are set up on a “seat contract” basis that includes hardware, but also includes an array of services and support as defined in this RFP. The contracts are separate. They are NOT related, DO NOT overlap.
105	How does the new WSCA/NASPO Cooperative Purchasing Organization affect this procurement?	The creation of the new WSCA/NASPO Cooperative Purchasing Organization does not affect this procurement. The term organization name “National Association of State Procurement Officials” and the initialization “NASPO” in the RFP document should be considered equivalent to “WSCA/NASPO Cooperative Purchasing Organization”. For additional information about the WSCA/NASPO Cooperative Purchasing Organization, please see RFP #201210412 Amendment 2, Question and Answer # 103.
106	Is Appendix F, “Letter from Microsoft...” an indication that the proposed devices must contain Microsoft software?	No. There is no requirement to specifically propose Microsoft software. Part II, Section 6.6 Software and Function of the RFP provides information on the software requirements. Appendix F is provided only on an informational basis, regarding discounts that can be applied to any proposal that offers Microsoft software as part of the Bidder’s proposed solution.

**STATE OF MAINE /
NATIONAL ASSOCIATION OF STATE PROCUREMENT OFFICIALS**

REQUEST FOR PROPOSALS AMENDMENT

RFP NUMBER AND TITLE:	201210412, Multi-State Learning Technology Initiative
RFP AMENDMENT NUMBER:	Amendment 3
AMENDMENT DATE:	January 7, 2013
PROPOSAL DUE DATE:	January 14, 2013 at 2:00 pm local time
RFP ISSUED BY:	State of Maine, Department of Education and Division of Purchases, in combination with the National Association of State Procurement Officials (NASPO)
PROPOSALS DUE TO:	Division of Purchases Burton M. Cross Building, 4 th Floor 111 Sewall Street 9 State House Station Augusta, ME 04333-0009
DESCRIPTION OF CHANGES TO RFP: This document represents an amendment to RFP #201210412 and is therefore part of the RFP itself. This amendment is presented in the traditional question and answer format for readability purposes, but they are not responses to actual submitted questions. The period for submission of written questions has ended. Unless specifically addressed below, all other provisions and clauses of the RFP remain unchanged.	

[Questions and answers provided on the subsequent pages of this RFP amendment.]

Question #	Question	Answer
1	<p>In Part II, Section 6.5.1 Assessment Compatibility, the Hardware Purchasing Guidelines provided online by the Smarter Balanced Assessment Consortia are referenced. According to the Consortia's web site, an alteration was made to these guidelines related to the recommended size of or amount of available space remaining on a device's storage media. Does our solution need to "meet" or "ideally exceed" this new guideline?</p>	<p>Yes, there is <i>no change to the RFP requirements</i> as described in Part II, Section 6.5.1 Assessment Compatibility.</p>
2	<p>Would the State consider an extension on the due date of the RFP?</p>	<p>The deadline for submission of proposals has been extended to Monday, January 14, 2013 at 2 pm local time. All other submission requirements remain unchanged.</p>

APPENDIX B
Provider's Primary Proposal in Response to Request for Proposals #201210412

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Appendix A

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials

PROPOSAL COVER PAGE


RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Bidder's Organization Name: Hewlett-Packard Company		
Chief Executive - Name/Title: Meg Whitman, CEO		
Tel: 650-857-1501	Fax: 650-857-5518	E-mail: CEO.MegWhitman@hp.com
Headquarters Street Address: 3000 Hanover Street		
Headquarters City/State/Zip: Palo Alto, CA 94304-1185		
<i>(provide information requested below if different from above)</i>		
Lead Point of Contact for Proposal - Name/Title: Ruth Mockus, Technology Services – New Business Account Manager, New England SLED		
Tel: 508-864-1539	Fax: 508-234-0050	E-mail: mockus@hp.com
Street Address: 99 Cliffe Road		
City/State/Zip: Whitinsville, MA 01588		

Proposed Cost:	Tier 1: \$254.86 per-seat per-year; See Cost Proposal Form
<i>The proposed cost listed above is for reference purposes only, not evaluation purposes. In the event that the cost noted above does not match the Bidder's detailed cost proposal documents, then the information on the cost proposal documents will take precedence.</i>	

- This proposal and the pricing structure contained herein will remain firm for a period of 180 days from the date and time of the bid opening.
- No personnel on the multi-state Sourcing Team or any other involved state agency participated, either directly or indirectly, in any activities relating to the preparation of the Bidder's proposal.
- No attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a proposal.
- The undersigned is authorized to enter into contractual obligations on behalf of the above-named organization.

To the best of my knowledge all information provided in the enclosed proposal, both programmatic and financial, is complete and accurate at the time of submission.



Authorized Signature Date

Chris Backs, Manager,
US Public Sector Contract Negotiators NALCS, OGC

Name and Title (Typed)

Response to State of Maine
Department of Education for
Multi-State Learning Technology
Initiative from
Hewlett-Packard Company



Transforming Learning Environments

BNA/SLEDE/14019
RFP # 201210412



Hewlett-Packard Company
6600 Rockledge Drive, Suite 150
Bethesda, MD 20817
www.hp.com



January 14, 2013

State of Maine
Division of Purchases
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Dear Mr. Mao:

On behalf of the Hewlett-Packard Company (“HP”) and its subcontractors, we thank you for the opportunity to provide the State of Maine Department of Education and the National Association of State Procurement Officials (NASPO) a customer – centric approach to implement the objectives of the Multi-State Learning Technology Initiative. HP is pleased to provide a detailed plan and cost proposal of how it would accomplish the objectives of the Multi-State Learning Technology Initiative as originally outlined in RFP 201210412, and proceed with negotiating an agreement with the State to fulfill these requirements.

We believe that HP is uniquely qualified to partner with the State of Maine and NASPO to successfully implement the Learning Technology Initiative, given HP’s proven ability to deliver a “managed-services” project. HP’s qualifications and advantages are outlined in the following Executive Summary.

HP appreciates the opportunity to have negotiations with the State of Maine/NASPO for this Initiative and we look forward to a mutually successful outcome. Please contact Ruth Mockus, Technology Services – New Business Account Manager, New England SLED at 508.864.1539, mockus@hp.com, or Amy Dupuis, Field Sales Representative at 978.297.5055, amy.dupuis@hp.com regarding any questions you may have.

Sincerely,

A handwritten signature in black ink that reads 'Ruth M. Mockus'.

Ruth Mockus
Technology Services
New Business Account Manager
New England SLED

A handwritten signature in black ink that reads 'Amy Dupuis'.

Amy Dupuis
Field Sales Representative

Table of Contents

Executive Summary	1
Partner Strategy	1
Executive Sponsorship	3
Summary	3
Section I—Organization Qualifications and Experience	4
Section II—Specifications of Work to be Performed	12
Part II – Scope of Services	12
Appendix G – Additional Forms – Staff Experience with Similar Projects	206
Appendix G – Additional Forms – Portable Computing Device Specifications Summary	217
Appendix G – Additional Forms – Wireless Local Area Network (WLAN) Specifications Summary	220
Section III—Cost Proposal	222
Appendix B	223
Section IV—Economic Impact	233
Part VI – Contract Administration and Conditions	235
HP Appendices.....	256
HP Appendix A—Certificate of Liability Insurance	257
HP Appendix B—Master Lease Purchase Agreement.....	259
HP Appendix C—Master Operating Lease Agreement	269
HP Appendix D— Professional Development Partners and Programs	279



Executive Summary

On behalf of Hewlett-Packard Company (HP) please find the enclosed proposal as our response to the State of Maine Department of Education Multi-State Learning Technology Initiative (MLTI) RFP # 201210412. HP at the direction of the State has used the RFP with amendments as the guide to this submission. HP's proposal includes the following:

- A partner strategy that includes Education Networks of America (ENA), SMaRT Technology Services, Dynamic Edge and Black Box Networking Services (Black Box).
- A hardware platform that fully supports the Multi-State Learning Technology Initiative requirements.
- Software including operating systems and educational applications and rights to new versions on new devices.
- Wireless Network Infrastructure managed and deployed by ENA.
- Deployment, user training, and repair for the installed portable computing devices.
- Customized Professional Development curriculum for teachers and administrators.
- A dedicated Project Management Office.
- HP Executive Level Sponsor.

Partner Strategy

HP has chosen to partner with companies that complement the strengths of HP to deliver and to help enhance the success of the Multi-State Learning Technology Initiative.

Education Networks of America (ENA)—ENA was founded in 1996 and for the last 17 years has been servicing the K-12 educational community with district and statewide managed connectivity, communication and collaboration solutions as well as productivity tools. In the beginning, ENA created one of the first statewide K-12 networks in the US, connecting all schools and school districts in the state of Tennessee. Today, as part of ENA's service delivery they serve six statewide contracts and many of the largest school systems in the country with Internet Access, Wide Area Networks, Interconnected VOIP, and Video Services. ENA provides connectivity to over 5,385 end sites, 580 school districts, and 250 libraries serving more than 3.1 million students, teachers, and administrators and more than 6.2 million librarians and patrons throughout the US.

SMaRT Technology Services (SMaRT)—SMaRT is a Chicago-based, privately-held Information Technology services and consulting firm that is also certified to do business as a Minority Business Enterprise (MBE). With more than 14 years of experience developing and delivering custom, innovative technology services solutions for educational institutions, government agencies, commercial and private businesses, and not-for-profit organizations, SMaRT's core competencies include Help Desk/Support Center Service as well as depot, staging, imaging and shipping/logistics for desktop and portable computing devices. Among numerous large scale engagements, SMaRT currently provides help desk and onsite support for computing devices, network and peripheral equipment at 650 Chicago Public Schools.

Dynamic Edge (DE)—Dynamic Edge was founded in 1999 and provides award-winning technology service support to a diverse list of businesses in multiple states. DE is a pioneer in automation tools and focuses on security, asset management, service automation, and proactive support.



Notable projects include the creation of operational accountability systems supporting more than 85,000 active users and the development of rapid deployment image build technology and supporting methodology. This rapid deployment process was used to perform hardware upgrades on 2,240 servers and the 22,500 workstations connected to these devices. It took place at 1,250 locations in six countries and was completed in less than ten weeks. Today, DE uses these service automation techniques and processes to deliver an exceptional user experience.

Black Box Networking Services (Black Box)—Black Box is a trusted provider of comprehensive communications and infrastructure solutions. As a value-added reseller of platforms and applications from the industry’s top manufacturers, and a provider of its own line of technology products and services, Black Box designs, builds, and maintains today’s complex voice and data networks.

HP has selected Black Box, a long time strategic partner of HP’s to provide depot level services on the portable computing devices HP will be providing.

Hardware and Software—HP mobility solutions are built on industry-standard Intel® hardware and Microsoft® operating systems, applications, and security tools. This addresses the critical requirement for Students/Teachers to be able to “Access/Consume” information, but also “Create” information and data. HP is proposing, in two separate proposals, the ProBook 4440 and our new fully serviceable Windows8 ElitePad tablet, both of which meets or exceeds all specifications of the RFP. This proposal is specifically in support of the HP ProBook 4440. HP is also proposing a suite of educational software that also exceeds the requirements of the RFP.

Wireless Infrastructure—ENA will provide all of the Wireless Infrastructure in response to the requirements defined in the RFP associated with wireless infrastructure. ENA has extensive and current experience in managing multiple State education networks and is uniquely positioned to design, implement, and support the wireless infrastructure requirements of the RFP.

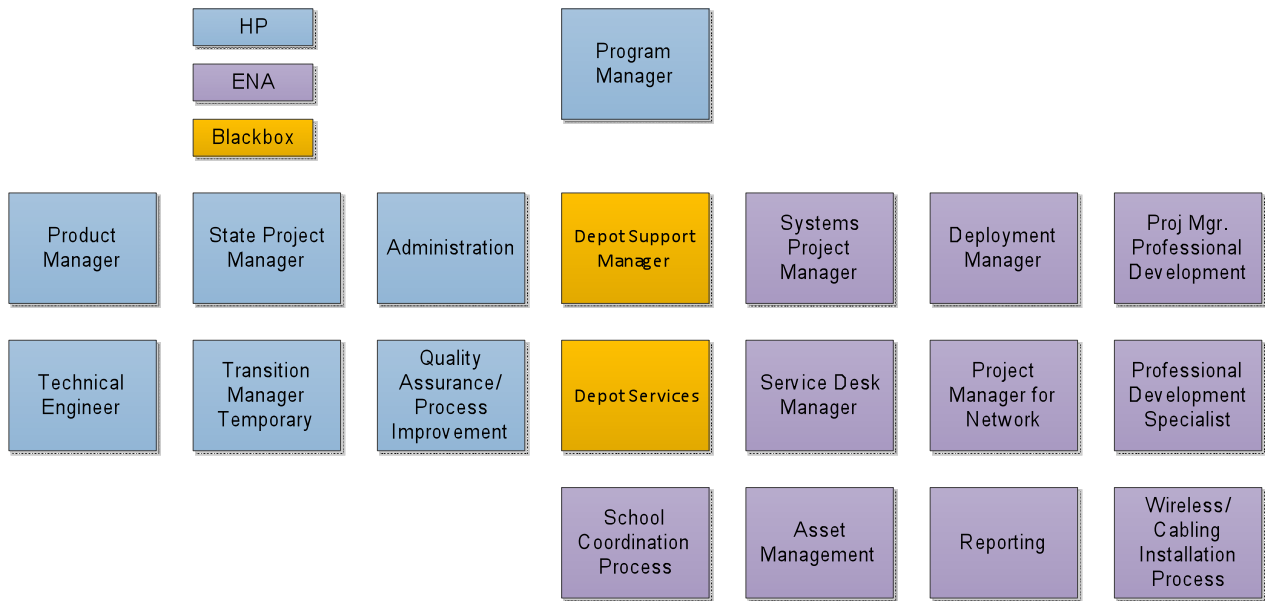
Deployment, Training and Support—HP and our certified partners will support the Multi-State Learning Technology Initiative by Image testing, deployment, and technology support. The solution will provide the professional development curriculum most critical to the long term measurable student success.

Leasing—HP will provide the leasing solution to enable the customers to bundle all of the product and software, and services into a price per seat solution.

Project Management Office—In response to the RFP and to insure a successful Initiative, HP is proposing a Project Management Office (PMO). HP’s PMO will be staffed by experienced members representing HP and its subcontracted partners.



Figure 1. Project Organization Structure



Executive Sponsorship

HP has assigned a senior level executive, knowledgeable about this initiative, and the Program to be a single point of escalation within HP for issues that cannot be resolved by HP’s PMO.

Summary

HP is uniquely qualified to successfully implement the requirements for the State of Maine’s Multi-State Learning Technology Initiative, as defined in RFP# 201210412. HP has extensive operations across the USA and years of experience understanding the unique needs of the statewide community. We have a core competency providing managed services to large public sector programs, including highly-effective Program Management.

HP has assembled a strong team of professionals with experience in on-premise and remote learning and management solutions. As a team we believe we bring a comprehensive solution to exceed many of the requirements of the original RFP.



Section I—Organization Qualifications and Experience

1. Description of the Organization

Present a detailed statement of qualifications and summary of relevant experience. If subcontractors are to be used, provide a list that specifies the name, address, phone number, contact person, and a brief description of the subcontractors' organizational capacity and qualifications.

Response:

HP's Commitment to Education

HP has a long history of being closely linked to the higher-education community. In the company's early years both Mr. Hewlett and Mr. Packard would consult with aspiring engineers and students as to how to build the best products for the marketplace.

Today, HP maintains this strong commitment to higher education. We seek guidance from the higher-education community on how to be a better provider of technology. We also seek to be the leading provider of technology products and services to education by creating value for students, educators, and institutions. We pledge to be the easiest to do business with and a lead contributor to advancements in the effective use of technology to improve learning outcomes.

State of Maine and NASPO should be confident in partnering with HP, as we are unique among all technology companies in our depth of innovative products and services for your community of learners, teachers, and researchers. Creating a campus environment "without limits" is something we are passionate about and take very seriously. As we look to the future, HP is unsurpassed not only in meeting the needs of today's campuses but also in preparing campuses to meet the needs of tomorrow's inspired students.

HP and Higher Education

"Simply turning over a check to his favorite school or college does not end the businessman's responsibility to education."

— Dave Packard, 1966

PC technology is in an exciting evolutionary state. With the development of a multitude of access devices and platforms, as well as constant and expanding integration into student's lifestyles, the higher-education computing environment is becoming increasingly complex. Campuses are looking for solutions to simplify the daily and long-term computing needs of faculty, staff, and students. All with a goal of providing for better academic results while decreasing the impact on the campus IT budget.

HP addresses this challenge by investing in computing innovations and advances in technology that provide a better customer experience for you, your faculty, your staff, and your student body. Some examples include:



- **Mobility**—In addition to our lineup of notebooks, workstations, and Netbooks, we have also included a full device management solution. This lets the HP MLTI support staff along with local state and district technology teams streamline portable computing devices deployments, migration, and replacement. Over-the-air device configuration allows for remote firmware ROM updates, active error monitoring, and remote detection and repair. We can also boost mobile security with remote device lock and unlock, remote wipe, and over-the-air push of security applications. This is provided through HP and our partners' own tool sets and in collaboration with such partners as Computrace.
- **Damage Protection**—With our Accidental Damage Protection Care Pack, State of Maine's portable computing devices will be replaced quickly in the event of an accident. The service covers all parts and labor. More importantly, it also covers a complete range of damage that warranty or service contracts do not. This includes damage that is highly likely to occur in a campus environment, including unintentional spills, drops, falls, and collisions.
- **Energy Efficiency**—HP continues to “go green” to reduce the impact on our environment and save you money. For more than a decade, we have been a leader in working with industry and government groups to promote energy-saving programs and consistent global standards. In fact, HP was the first PC manufacturer to sponsor the 80PLUS program, an incentive program to integrate energy-efficient power supplies.
- **Teaching with Technology**—Educators around the world are using technology to improve student learning and to redesign the way they teach. Through HP's philanthropic grants to faculty in colleges and universities around the world, best practices in the effective use of technology in higher education are beginning to emerge. HP works with this consortium of thought leaders in higher education, as well as innovative software companies, to offer instructional solutions that improve student engagement, educator productivity, and learning outcomes. The result: best practices and practical tips for the effective use of technology in higher-education classrooms.

Partners

Education Networks of America (ENA)—ENA was founded in 1996 and for the last 17 years has been servicing the K-12 educational community with district and statewide managed connectivity, communication and collaboration solutions as well as productivity tools. In the beginning, ENA created one of the first statewide K-12 networks in the US, connecting all schools and school districts in the state of Tennessee. Today, as part of ENA's service delivery they serve six statewide contracts and many of the largest school systems in the country with Internet Access, Wide Area Networks, Interconnected VOIP, and Video Services. ENA provides connectivity to over 5,385 end sites, 580 school districts, and 250 libraries serving more than 3.1 million students, teachers, and administrators and more than 6.2 million librarians and patrons throughout the US.

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staging, imaging and shipping/logistics for desktop and portable computing devices. Among numerous large scale engagements, SMaRT currently provides help desk and onsite support for computing devices, network and peripheral equipment at 650 Chicago Public Schools.

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HP has selected Black Box, a long time strategic partner of HP's to provide depot level services on the portable computing devices HP will be providing.

Contact for Partners

Bob Collie
Education Networks of America (ENA)
1101 McGavock Street
Nashville, TN 37203
Phone: 615-312-6004

2. Organizational Description and Qualifications

- a. List the location of the Bidder's corporate headquarters. Also, describe the current or proposed location where services will be provided or from which the contract will be managed.

Response:

Corporate Headquarters

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185 USA
Phone: 650-857-1501
Fax: 650-857-5518

Proposed Location for North East States Participating in this Offering

Hewlett-Packard Company
165 Dascomb Road
Andover, MA 01810



Phone: 978-474-2000

Proposed location for National Program Management Office

Hewlett-Packard Company
State, Local and Education Services Division
6600 Rockledge Drive, Suite 150
Bethesda, Maryland 20817
Phone: 240-744-8490

- b. Attach documentation of any applicable licensure requirements (or any specific credentials required).

Response:

HP will comply with business license registrations, where required by each participating State.

- c. Attach a certificate of insurance on a standard Acord form (or the equivalent) evidencing the Bidder's general liability, professional liability, and any other relevant liability insurance policies that might be associated with this contract.

Response:

We have included a sample Certificate of Insurance evidencing our insurance coverage and limits. Please refer to HP Appendix A—Certificate of Liability Insurance.

3. Organizational Experience

Briefly describe the history of the Bidder's organization, especially regarding skills pertinent to the specific work required by the RFP and any special or unique characteristics of the organization which would make it especially qualified to perform the required work activities. Include similar information for any subcontractors.

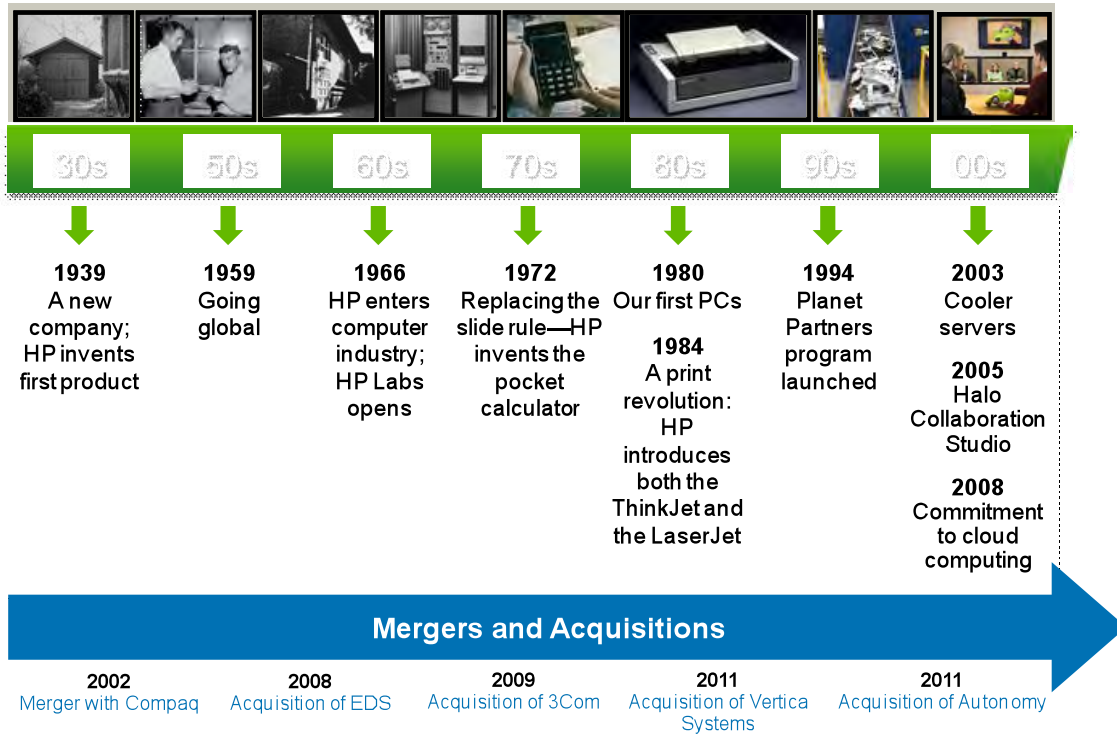
Response:

Hewlett-Packard (HP) was founded in 1939 by two engineers—Bill Hewlett and Dave Packard—who believed in the power of technology and the contribution it could make to our customers' lives, communities and businesses. More than 70 years later, we are still a company that applies new thinking to improve the lives and businesses of our customers.

Today HP is one of the largest technology companies in the world, with a global reach and an array of solutions that go well beyond the printers and PCs that we are famous for. At HP we are proud that our products touch so many lives, and we want you to know that this is just the beginning. We believe that technology is vital to helping us all succeed in this rapidly changing world. We believe that because we serve such a wide range of customers we have a unique perspective on their needs and an exceptional level of insight into how they may be solved. And we are committed to using our products, services, and ideas to unleash the exciting new possibilities just around the bend.



Figure 2. HP Milestones—Important Dates in HP History



In its proud history, HP has not only changed the face of technology but also changed the way that an entire industry has come to view its commitments to its people, its customers, its communities and the world.

4. Description of Experience with Similar Projects

- a. Provide a description of five projects that occurred within the past five years which reflect experience and expertise needed in performing the functions described in the “Scope of Services” portion of this RFP. For each of the five examples provided, a contact person from the client organization involved should be listed, along with that person’s telephone number and email address. Please note that contract history with the any states on the Sourcing Team, whether positive or negative, may be considered in rating proposals even if not provided by the Bidder.

Response:

HP submits the following five projects that occurred within the past five years which reflect experience and expertise needed in performing the functions described in the “Scope of Services” portion of this RFP:



Reference 1

Customer: State of Idaho – Idaho Education Network
Customer Address: 650 West State Street, Boise, ID 83720-0027
Contact Name and Title: Brady Kraft, IEN Technical Director
Contact Phone: (208) 332-1840
Contact E-mail: brady.kraft@ien.idaho.gov
Dates of Services: July 2000 – Present

Description of Service Provided:

In 2009, the Idaho Department of Administration, Office of the Chief Information Officer (OCIO) selected ENA as the named E-Rate service provider for the Idaho Education Network (IEN) based on ENA's extensive experience in providing similar services throughout the country. The State of Idaho actively pursued a service provider that could meet the unique needs of K-12 schools and library customers and implement a model that would enable Idaho to leverage existing infrastructure and contracts with multiple telecommunications, cable and utility providers to provide a ubiquitous statewide education network with a high-level of quality support services.

The first phase of the project was completed one year ahead of schedule and nearly 16 percent under budget and connected each public high school with a scalable, high-bandwidth connection. In addition, a fully-equipped video classroom was established in each high school. ENA assumed the lead project management role in the design, provisioning and implementation of both the high-speed connectivity as well as the coordination and installation of the video classrooms and now provides the overall network management, monitoring and ongoing support for all components of the service, which includes **Internet services, wide area data transport and video services (interactive and streaming)**. In addition, ENA provides extensive support to the state and the individual school districts for the State Consortium E-Rate application and the districts' individual applications.

Reference 2

Customer: State of Indiana - Indiana Department of Education
Customer Address: 151 West Ohio Street, Indianapolis, IN 46207
Contact Name and Title: Dr. John B. Keller, Assistant Superintendent for Technology
Contact Phone: (317) 234-5703
Contact E-mail: jkeller@doe.in.gov
Contact Fax: (317) 232-8004
Dates of Service: July 2005 to Present

Description of Service Provided:

In 2005, ENA was selected as the managed Internet service provider for the K-12 school corporations (districts) across the state of Indiana. This contract required a transition of approximately 580 existing circuits (ranging from single and multiple T-1s to 45 Mbps DS3s per location) at over 300 school district sites prior to beginning the 2005-2006 school year. The network transition was completed successfully within three months and with school corporations experiencing virtually no downtime. ENA designed, provisioned and implemented all components necessary and is responsible for ongoing network monitoring and management, Customer Technical Assistance Center (CTAC) and customer support.



This statewide service contract was re-bid in 2009 and ENA was deemed the successful respondent and awarded the new contract. Throughout each contract term, ENA has managed this statewide education network by coordinating service delivery with over 40 infrastructure providers (telecommunications companies, cable companies and others) and has continually evaluated new technologies and options for delivering service at each site to provide performance enhancements or additional cost savings.

ENA also assists the Indiana Department of Education in equitably distributing state connectivity funds and completing the annual State Consortium E-Rate application. Indiana school corporations are active users of videoconferencing and distance learning services.

Reference 3

Customer: Tennessee Statewide Consortium through Metro-Nashville Public Schools
Customer Address: 2601 Bransford Avenue, Nashville, TN 37204
Contact Name and Title: John Williams, Executive Director of Information Systems
Contact Phone: (615) 259-8433
Contact E-mail: john.williams@mnps.org
Contact Fax: (615) 291-6431
Dates of Service: July 1998 to Present

Description of Services Provided:

Metropolitan Nashville Public Schools (MNPS) is Tennessee's second largest school district with approximately 73,000 students and 146 school sites. ENA has provided managed network and Internet access services to MNPS since July 1998, utilizing a variety of technologies. MNPS is in the process of implementing ENA's Interconnected VoIP solution, ENA SmartVoice, and desktop videoconferencing solution, ENA Live, in a phased approach, similar to the fiber project noted above.

MNPS is the Consortium Lead for the Tennessee Statewide Connectivity Consortium. An overwhelming majority of Tennessee school districts have opted into this statewide consortium and purchase a variety of services, including Internet access, wide area network services, Interconnected VoIP and videoconferencing services. In addition to the services listed above, ENA provides statewide hosted content filtering, firewall services and extensive traffic management services in support of district-wide applications such as their student management system

Reference 4

Customer: State of Washington – Kent School District
Customer Address: 650 West State Street, Boise, ID 83720-0027
Contact Name and Title: Thuan Nguyen, Assistant Superintendent & CIO
Contact Phone: (253) 373-7904
Contact E-mail: Thuan.Nguyen@kent.k12.wa.us
Dates of Services: July 2000 – Present

Description of Service Provided:

Kent School District manages one of the most mature student 1:1 programs in Washington State, the "One-to-One" Initiative".



For more information, see <http://www1.kent.k12.wa.us/ksd/it/one2one/>. Starting in September 2009, 7th and 8th graders in the District began receiving laptop computers and beginning fall of 2012, 10th graders began receiving laptops. Some 9,000 students now have constant access to HP laptops throughout the entire school year. A local HP partner provides services of warehousing, asset tagging, imaging, engraving, delivery and warranty support.

Reference 5

Customer: State of South Carolina - Kershaw County School District
Customer Address: 2029 West DeKalb St., Camden, SC 29020-7093
Contact Name and Title: Kerry Morgan, K-8 Supervisor
Contact Phone: (803) 669-4238
Contact E-mail: kerry.morgan@kcsdschools.net
Dates of Service: July 2004 to Present

Description of Service Provided:

Kershaw County School District (KCS D), located in Camden, South Carolina, is home to almost 10,000 students and over 1,300 employees. The district has three high schools, four middle schools, eleven elementary schools, one career center, one alternative school, and one adult education program.

In 2004, KCS D selected HP to install and manage a wireless infrastructure, printers, and portable computing devices with a four-year refresh cycle. This was a one year agreement with eight one-year extensions. HP is completing its eighth year delivering this service, and supplying over 1,000 new laptops annually to incoming high school freshmen. The iCan Project expanded from initially servicing the KCS D high schools to include all KCS D K-8 schools.

HP initially supplied three onsite technicians and by 2012 KCS D was utilizing fifteen on-site technicians aimed at extending the use of mobile technology across the KCS D to enhance the learning experience of the children of Kershaw County. Based upon our understanding of Kershaw County School District's objectives for this wireless mobile initiative, HP, in conjunction with our industry-leading partners, proposed a comprehensive solution for provisioning, managing, and supporting portable computing devices for students, teachers, and administrators.

- b. If the Bidder has not provided similar services, note this, and describe experience with projects that highlight the Bidder's general capabilities.

Response:

HP has experience that occurred within the past five years which reflect experience and expertise needed in performing the functions described in the "Scope of Services" portion of this RFP, and has provided references as requested.



Section II—Specifications of Work to be Performed

1. Services to be Provided

Discuss in detail the Scope of Services referenced above in this RFP and what the Bidder will offer. Give particular attention to describing the methods and resources you will use and how you will accomplish the tasks involved. If subcontractors are involved, clearly identify the work each will perform.

Response:

HP acknowledges and understands. Details are in the following sections.

Part II – Scope of Services

1. Scope of Work

1.1. Bidder Response to Service Specifications and Requirements

Part II, SCOPE OF SERVICES represents the State of Maine’s specifications and requirements for its Learning Technology Wireless Classroom Solution. It also includes the information required to be supplied by the Bidder as part of its response to this proposal. For each requirement in **Part II, SCOPE OF SERVICES**, each Bidder must respond appropriately. Failure of the Bidder to provide completely the required information as specified in each of the bullets below may result in the Bidder’s proposal not achieving its maximum scoring potential during the evaluation process.

- The appropriate response to some requirements may simply be for the Bidder to acknowledge and to agree to comply fully with the requirement.
- More typically, the Bidder must specify and describe how its solution meets or exceeds the requirements.
- Each Bidder must also specify, describe and clarify its proposal’s characteristics and strengths as well as any weaknesses or limiting factors.

Response:

HP acknowledges and understands.

Complete instructions are in **Part IV, PROPOSAL SUBMISSION REQUIREMENTS**.

Response:

HP acknowledges and understands.

2. Overview

Maine’s state learning technology plan enacted by the Legislature in June 2001 must provide for:

- Portable computing devices for every 7-12th grade student and teacher with functional software appropriate to grade level;
- Obtaining basic research information and databases;



- An alternative equivalent value factor option to school administrative units if they meet the standards of the learning technology plan;
- Teacher technology and professional development;
- External and internal networks and technical support;
- Costs for replacement of portable computing devices, servers and other equipment; and
- An evaluation component.

Not all of these items are included in this RFP. Please see **Part II, Section 4, Services Provided by Other Entities** for general information, and **Appendix E, State Profiles**, for descriptions of state-specific services provided by other entities.

A copy of Maine's state learning technology plan may be downloaded at:

<http://maine.gov/mlti/resources/history/mlterpt.pdf>

This plan led to the successful creation of the Maine Learning Technology Initiative (MLTI) that has provided notebook computers to every 7th and 8th grade students in Maine public schools since the 2002-2003 school year. The original MLTI solution was procured via a Request For Proposals (RFP) that led to the deployment of over 36,000 notebook computers, the installation of over 230 wireless 802.11b networks, and hundreds of hours of professional development for teachers, school administrators, and technology support personnel. In 2006, a second RFP was issued that led to the deployment of over 45,000 notebook computers, the installation of new 802.11b/g wireless networks, and hundreds of hours of professional development. Prior to the expiration of the second contract, the State of Maine renegotiated the agreement to allow for the expansion of the program to Maine's high schools. In 2009, MLTI deployed nearly 75,000 notebook computers to its middle schools and over half of Maine's high schools, installed new 802.11 b/g/n wireless networks, and again provided hundreds of hours of professional development.

This RFP seeks the next generation solution for the Maine Learning Technology Initiative. In addition, working collaboratively with NASPO, it seeks to broaden the opportunity for other states to implement similar solutions for schools across the country. With the wide adoption of the Common Core State Standards and the development of the Next Generation Science Standards, the opportunity for States to collaborate and share is vast. The learning targets are the very much the same in many states. However, just as good teaching requires personalization to meet a student's needs, the implementation of a 1:1 program will require some personalization to meet each state's needs. Throughout this RFP, Bidders are asked to respond to functional requirements and other provisions of the RFP. In many places, Bidders are not specifically asked for responses specific to Maine or any state in particular. These are areas that the sourcing team believed to be general and applicable to all. In other places, Bidders will find specific instructions or descriptions specific to Maine or another sourcing team state (Hawaii or Vermont). This RFP seeks Bidders able to provide both a dependable, robust solution and the flexibility to tailor certain aspects to the individual needs of states.

Response:

HP acknowledges and understands.



2.1. Maine Education Strategic Plan

The MLTI is a critical component of a larger system envisioned by Maine's Education Strategic plan, "Education Evolving: Maine's Plan for Putting Learners First" (<http://www.maine.gov/doe/plan/>). The plan is shaped around five core priority areas that address the various elements of building an education system focused on the needs of all learners:

- Effective, Learner-Centered Instruction
- Great Teachers and Leaders
- Multiple Pathways for Learner Achievement
- Comprehensive School and Community Supports
- Coordinated and Effective State Support

Bidders should consider the Plan as it designs its solution.

Response:

HP acknowledges and understands.

3. Scope of Procurement: Learning Technology Wireless Classroom Solution

The awarded Bidder(s) must provide a solution that is both functionally complete and cost-effective. The Provider must demonstrate the ability, capacity, and flexibility to collaborate successfully and actively with the participating state, as well as schools and any other state partner that may wish to be involved, through its own participating addendum.

Response:

HP acknowledges and understands.

3.1. Maine Scope of Procurement

In order to secure the vision described in Part II, the State of Maine seeks to procure services that would provide personal, portable computing devices with suitable basic applications and functionality for all 7th through 12th grade students and teachers. In addition to these devices, the State of Maine seeks to procure installed or upgraded wireless networks for all participating middle and high schools as necessary, appropriate server capacity, professional development and technical support. The procurement sought will also include a number of optional schedules for equipment or services that local school units or other entities may choose to take advantage of at their own expense.

Response:

HP acknowledges and understands.

3.2. Hawaii Scope of Procurement

Digital Materials Using Tablets and Laptops

Hawaii's "Digital Materials Using Tablets and Laptops" approach means that the state will separately purchase curricular materials with a digital component.



To ensure all students are able to access the digital components of the curriculum, the state is currently planning to purchase tablets for elementary and middle grades and laptops for grades 9-12. Digital materials are easily updated at little to no cost and leveraging statewide buying power will also result in lower per-unit costs. The purchase of a digital curricular package will include professional development and technical assistance from the publisher and the contract to purchase tablets will also include corresponding technical assistance to complement the curricular package. Finally, the devices will serve multiple purposes as the end of course exams, bridge HSA (Hawaii State Assessment), and Smarter Balanced assessments will all be computer-based and delivered online.

Response:

HP acknowledges and understands.

4. Services Provided By Other Entities

This subsection describes in general terms the services critical to the success of the statewide initiative that are provided in whole or in part by an entity other than the Provider. As described in this section, the Bidder will be responsible to coordinate the design and deployment of the bid solution in order to appropriately complement and leverage these activities or resources. Some of these items are described more fully hereafter in conjunction with the relevant specifications. Note that this list is not exhaustive.

4.1. Building Preparedness

Each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution. The local school unit shall address structural issues, construction/renovation, abatement, and electrical wiring needs, based on specifications supplied by the Provider. The bid solution should be designed to minimize necessary costs of building preparation.

Response:

HP acknowledges and understands.

4.2. Connectivity and Adequate Bandwidth to Each School Building

Each local school unit that opts to participate in this program shall be responsible to ensure adequate bandwidth and connectivity to the school facility. The bid solution should be designed to minimize the need to upgrade the available bandwidth at each school. Bidders should note minimum bandwidth requirements to best implement the proposed solution in its response in **Section 6.6.8, Cloud Requirements.**

Response:

HP acknowledges and understands.



4.3. Home Access to the Internet

Educators and students who participate in this program are individually responsible for providing Internet access at home. It is beyond the scope of this RFP to seek home Internet connectivity for individual users while away from the wireless infrastructure described in **Section 7, Network Connectivity and Infrastructure**.

Response:

HP acknowledges and understands.

4.4. Content, Assessment, and Integration

Many states are “local control” states with regard to curriculum and selection of instructional materials. State content standards describe what children should know and be able to do at each grade span. Many states have adopted the Common Core State Standards for English Language Arts and Mathematics. In addition, it is anticipated that many will adopt the Next Generation Science Standards in the future upon their completion. However, in local control states, local school units and classroom teachers are left with academic freedom to design lessons and select materials. Although the Bidder may include options for services regarding content, assessment tools, and other materials, any such services should be premised on a system of locally developed and selected curriculum, instruction and assessment.

Response:

HP acknowledges and understands.

4.5. Primary Research Databases

Many states have centralized, coordinated access to online and electronic content, databases, and other similar resources. While the Sourcing Team is interested in options for services regarding content, these should not be included in the per seat cost of the solution, but rather offered as optional purchases for each state to consider within the context of its own state.

Response:

HP acknowledges and understands.

4.6. Program Evaluation and Assessment

Each participating state will make provisions outside the scope of this Request for Proposal for outside analysis and evaluation of the impact and success of the project. The Provider should be prepared to supply its required reports and documents in a time, manner, and format specified by the participating state that will enable adequate program evaluation.

Response:

HP acknowledges and understands.

5. Participation by Schools

It is assumed that participation at the school level within any state that elects to participate in this program will vary significantly based on numerous differences in state policies and funding.



5.1.1. Maine school participation

All two hundred six (206) Maine middle schools (grades 7-8) are eligible to participate in the program. Since the inception of the program, 100% of Maine middle schools have participated in the program. It is estimated that one hundred twenty (120) Maine high schools (grades 9-12) are eligible to participate in the program. Starting in 2009, 55% of Maine high schools have been participating in the program. The number of classrooms and students within schools varies widely. Maine has many small, rural schools. A significant proportion – roughly 48% – of the schools that serve 7th and 8th grade students are K-8 elementary schools.

Maine is a strong “local control” state. Although Legislature and the Department of Education provide statewide policy direction, each of Maine’s 230 school units, organized on a municipal or regional basis, has an elected school board with general statutory responsibility for policy and operational oversight of each school.

The State will pay for participating middle schools including student and eligible staff seats as well as wireless networks. The State will also pay for participating high schools including eligible staff seats and wireless networks, but not student seats. Local school districts are responsible for the costs of student seats for students at participating schools in grades other than grade 7 or grade 8. It is expected that many Maine schools serving grades K-6 will also wish to participate in this program. Please see **Section 6.8.1, Pricing Schedule for Additional Educational Groups** for more information about Maine K-6 schools. All devices for participating Maine public schools, regardless of the grade level served, will be purchased by the Department of Education under the resulting Agreement. For students or staff that do not meet the eligibility requirements, the Department will invoice the schools directly for reimbursement to the Department. Therefore, all invoicing and payments for Maine public schools will be done solely with the Department.

While it is expected that all of Maine middle schools and most Maine high schools will participate in the program, schools will do so on an opt-in basis. Every public middle school in the State participated in the first, second, and third MLTI deployment. Additionally, some Maine elementary and private/independent schools elected to participate at local cost. However, some school units may elect not to participate. Other school units may elect for an alternative deployment. It is anticipated that schools that do not opt-in initially would retain the right to opt-in, at a minimum for Year 2 (the 2014-15 school year). Based on the solution proposed by the winning Bidder, the Department will require in May 2013 a formal statement of intent to participate from school units.

Response:

HP acknowledges and understands.

5.1.1.1. Maine Alternative Deployments

Maine middle schools may also elect to participate in an alternative one-to-one deployment, using different devices or configurations than that provided by the State-funded solution from the Provider. This alternative deployment could utilize an optional cost schedule for upgrades or enhancement offered by the Provider, or the school unit at its discretion could utilize equipment or services from some other vendor.



If a school's alternative deployment satisfies criteria to be established by the Department, the State would provide to that school – for those service components that are susceptible to disaggregation -- funds equal to the component(s) of the State-funded solution. The local school unit would have sole responsibility for any additional costs, beyond the State-funded solution, associated with the alternative deployment.

Response:

HP acknowledges and understands.

5.1.2. Hawaii school participation

All Hawaii Department of Education public schools are expected to participate in this program. The Hawaii Department of Education consists of approximately 260 unique schools with a total enrollment of approximately 175,000 statewide. The procurement of these devices is expected to be phased over a three-year period, with five new complex areas (districts) added each year. Hawaii estimates it will deploy devices to approximately 60,000 students and staff annually until the third year of implementation, when essentially all staff and students statewide have a device. Procurement will be subject to availability of funds. This phased approach was chosen as opposed to a grade level approach because it honors the commitment to a K-12 construct and powerful K-12 articulation. By allowing Complex Area Superintendents and principals to opt in to the phases we are more likely to have those who are willing and able be early implementers and therefore lead the way to a more successful implementation. Selection of Complexes or Complex areas will be made by the office of the State Superintendent, and will be based on technology readiness, leadership readiness and staff readiness. Please refer to **Appendix E, State Profiles - Hawaii** for technical readiness details.

Response:

HP acknowledges and understands.

5.1.3. Vermont school participation

Presently, Vermont does not have statutory guidance for participation in this program. As such, it expects participation from schools serving students across all grade levels, K-12, based upon local decision-making.

Response:

HP acknowledges and understands.

5.2. Opt-in

Participating states will coordinate with the Provider and its local schools to determine participation. Schools will be required to opt-in to the program by agreeing to terms and conditions between the state and the local school system. These terms and conditions will vary from state to state. The Provider is expected to assist participating states with the dissemination of information about the solution in order to ensure that local schools make informed decisions.

Response:

HP acknowledges and understands.



5.2.1. Maine Opt-in

It is anticipated that the Maine Department of Education will require a formal opt-in from its schools no later than May of 2013. The timing of the opt-in may vary based upon the Bidder's solution.

Response:

HP acknowledges and understands.

5.2.2. Hawaii Opt-in

It is anticipated that Hawaii schools will participate on an opt-in basis. Because Hawaii schools will rely on state funds to be able to participate in this program, it is expected that State leadership will ultimately determine schools, complex, or complex area participation in the program.

Response:

HP acknowledges and understands.

5.2.3. Vermont Opt-in

It is anticipated that Vermont schools will participate on an opt-in basis. Because Vermont schools will rely on local funds to be able to participate in this program, it is expected that not all local schools or districts will elect to participate in the program.

Response:

HP acknowledges and understands.

5.3. Full Deployment

All participating schools that opt in initially are required to be fully deployed for the start of the 2013-2014 school year. Schools that opt in at a later date would be deployed as soon as practicable.

Response:

HP acknowledges and understands.

5.3.1. Maine Deployment

Bidders should note that some schools in the Aroostook County region of Maine begin school in early August. The Department will coordinate with the Provider to prioritize deployment and installations based upon the various Maine school system calendars.

Response:

HP acknowledges and understands.

5.3.2. Hawaii Deployment

Bidders should note that some schools Hawaii begin earlier in the year than most other states (July 29th). Training would theoretically need to be done in June/early July.

Response:

HP acknowledges and understands.



5.3.3. Vermont Deployment

Ideally, delivery of devices would take place in May or June of 2013 in anticipation of the Fall semester. Training would be done in June/July to prepare for Fall semester.

Response:

HP acknowledges and understands.

6. Personal Computing Device & Software Applications

A portable, wireless computing device will be provided for each participating user in participating schools. All devices will be deployed in the first year of the program. Participating users will be defined by each State or local school.

Response:

HP acknowledges and understands.

6.1.1. Maine Participating Users

All students in participating middle schools (7th and 8th grade) will participate in the program. Additionally, all students in participating high schools (9th through 12th grade) will participate in the program. If a school elects to participate for other grade levels, all students in that grade level will participate in the program. Each teacher, librarian, school administrator, and technical coordinator in a participating 7-12 school will participate in this program. Personnel in these schools not covered by the State's funding may optionally participate if the local school elects to pay the per seat cost for those personnel.

Response:

HP acknowledges and understands.

6.1.2. Hawaii Participating Users

All grade levels will be eligible to participate in the program. Schools not centrally funded for program by State's may, subject to state approval, optionally participate if the local school elects to pay the per seat cost for those personnel and students.

Response:

HP acknowledges and understands.

6.1.3. Vermont Participating Users

All grade levels will be eligible to participate in the program. All students may optionally participate if the local school elects to pay the per seat cost for those personnel and students.

Response:

HP acknowledges and understands.



6.2. Device Quantities

6.2.1. Teachers and Staff

Participating educators and school personnel (which may include teachers, librarians, school administrators, technical coordinators, and more) will be equipped with a portable computing device (hereafter referred to as the “teacher’s” device). The teacher’s device may be the same as the student’s device or may be a more fully capable device. Either way, the teacher’s device must satisfy educational and practical functional goals in the classroom and for lesson preparation.

Response:

HP acknowledges and understands.

6.2.1.1. Maine Teachers and Staff

Classroom teachers in all content areas, special education teachers, literacy specialists, librarians and itinerant teachers will all receive a computing device. In addition, school administrators including principals, assistant principals, special education directors, technology directors, technology integrators, and others will be equipped with a portable teacher’s device. The Department will work with schools to determine the exact number of eligible staff for each school. In 2009, the Department’s initial count for total eligible staff for grades 7-12 was 11,869.

Response:

HP acknowledges and understands.

6.2.1.2. Hawaii Teachers and Staff

At a minimum, classroom teachers in Math and Language content areas, special education teachers, literacy specialists, librarians and itinerant teachers will all receive a computing device. Hawaii will ensure that all classroom teachers will eventually have a device. The Hawaii Department will work with schools to determine the exact number of eligible staff for each school.

Response:

HP acknowledges and understands.

6.2.1.3. Vermont Teachers and Staff

Because of the local nature of this opportunity, schools will determine the teachers and staff eligible to receive a portable device. The recommendation from the Vermont Department of Education will include a device for each teacher involved in the building based 1:1 program with additional devices available for staff in other content areas that are impacted by the 1:1 computing program.

Response:

HP acknowledges and understands.



6.3. Students

Each student in participating schools will be equipped with at least one portable computing device. The educational requirement is a minimum 1:1 ratio – at least one device per student.

Response:

HP acknowledges and understands.

6.3.1. Maine Students

The estimated number of Maine students is summarized in Table A below. This data is based on the spring reported enrollments (April 2012) for Maine public schools. For more detailed information, please see:

<http://www.maine.gov/education/enroll/attending/statespringpub.htm>

The anticipated program commences in August 2013 with the Classes of 2014 through 2019. The actual student enrollment numbers could be higher or lower.

The count could be lower if some eligible schools elect not to participate. As described in **Section 5.1.1.1 Alternate Deployments**, schools may also elect to participate in an alternative 1-to-1 deployment using different devices or configurations than that provided by the State-funded solution described by the Bidder.

TABLE A – Maine Student Count Estimates

High School Graduating Class Year	Grade in 2013-14 School Year	Estimated Student Count
Class of 2014	12	14,276
Class of 2015	11	14,494
Class of 2016	10	14,366
Class of 2017	9	14,074
Class of 2018	8	13,852
Class of 2019	7	13,698
Class of 2020	6	13,402
Class of 2021	5	13,309
Class of 2022	4	13,569
Class of 2023	3	13,688
Class of 2024	2	13,586

Response:

HP acknowledges and understands.



6.3.2. Hawaii Students

The estimated number of Hawaii students is summarized in Table B below. This data is based on the statewide projected enrollment for school year 2013-14.

TABLE B – Hawaii Student Count Estimates

Hawaii Enrollment Projections 2013-14			
Category	High School Graduating Year	Grade	Total
Regular Education	Class of 2026	K	15,349
	Class of 2025	1	14,303
	Class of 2024	2	13,778
	Class of 2023	3	13,336
	Class of 2022	4	12,766
	Class of 2021	5	12,502
	Class of 2020	6	11,527
	Class of 2019	7	10,874
	Class of 2018	8	11,040
	Class of 2017	9	12,194
	Class of 2016	10	11,275
	Class of 2015	11	10,549
	Class of 2014	12	9,059
		Subtotal	
Special Education		K-6	8,092
		7-8	2,971
		9-12	6,119
		Subtotal	
Grand Total			175,734

Response:

HP acknowledges and understands.



6.3.3. Vermont Students

The estimated number of Vermont students is summarized in Table C below. This data is based on a statewide projected enrollment for school year 2013-14.

TABLE C – Vermont Student Count Estimates

High School Graduating Class Year	Grade in 2013-14 School Year	Estimated Student Count
Class of 2014	12	6,883
Class of 2015	11	6,954
Class of 2016	10	6,448
Class of 2017	9	6,344
Class of 2018	8	6,250
Class of 2019	7	6,258
Class of 2020	6	6,138
Class of 2021	5	6,134
Class of 2022	4	6,164
Class of 2023	3	6,221
Class of 2024	2	6,043

Response:

HP acknowledges and understands.

6.4. Students with Disabilities

All students will receive a device except students who are determined by an individual education program (IEP) team to be unable to benefit from learning technology equipment. Ideally, all learners should benefit from the Bidder's solution. The school unit will provide additional adaptations, software, or peripheral equipment from the Provider or another vendor if necessary.

Response:

HP acknowledges and understands.

6.5. Device Functional Requirements

Bidders must complete the **Portable Computing Device Specifications Summary** included in **Appendix G – Additional Forms**. If more than one portable computing device is included in the solution, Bidders must complete one Summary Sheet per device.

Response:

HP acknowledges and understands.



6.5.1. Assessment Compatibility

The solution must meet, and ideally exceed the Hardware Purchasing Guidelines published by the Smarter Balanced Assessment Consortia (SBAC) and the Partnership for Assessment of Readiness for College and Careers (PARCC). These published guidelines may be found at:

<http://www.smarterbalanced.org/smarter-balanced-assessments/technology/>

<http://www.parcconline.org/technology>

Response:

HP acknowledges and understands.

6.5.1.1. Maine

Many Maine schools use the Northwest Evaluation Association (NWEA) formative assessment tool. It is desirable that the solution is compatible with the NWEA tool.

Response:

HP acknowledges and understands.

6.5.1.2. Hawaii

Many Hawaii schools use the Global Scholar Pinnacle Instruction Learning Management System as a formative assessment tool. It is desirable that the solution is compatible with this tool.

Response:

HP acknowledges and understands.

6.5.2. Device Connectivity

The device will be able to connect to the WiFi network and also be able to also access the school's pre-existing local network, and the Internet, wirelessly (via WiFi) within the school, home or other area outside the school. The Bidder must describe the device's native connectivity capacity as well as connectivity options including those that may require additional attachments and whether these attachments are a part of the proposed solution. The Bidder must describe its wireless network connectivity solution in detail in **Section 7, Network Connectivity and Infrastructure**.

Response:

The HP ProBook 4440s configuration supports a wired (10/100/1000 NIC) and wireless connection (802.11 a,b,g,n).

6.5.3. Device Portability

The device will be able to be carried conveniently and easily by students and teachers - either via a provided carrying case or some built-in carrying ability. The portable computing device shall be lightweight. While the Department will not mandate a specific maximum weight, as a guideline the Department would prefer to see a device and all its components that weighs six pounds or less. In general, the lighter the better.



Response:

The HP ProBook 4440s platform plus the Targus laptop skin, TSS534US will have a total weight of 5.54 lbs.

6.5.4. Device Durability

The portable computing device must be highly durable and withstand reasonable and normal daily use by middle and high school students. It is desirable that the device shall be durable enough to withstand occasional mishaps, and resist hazards such as dust, dirt and spills – and still function. It shall also have parts that cannot be easily removed, tampered with, or broken.

In order to provide necessary protection for the device during normal transport, the Bidder may include an appropriate carry case. Ideally the case would allow schools to easily label cases for easy identification (i.e. “All black bags look alike”). Included cases shall be included in the annual per seat cost and shall be fully covered by the Provider’s support and warranty program as described in **Section 9, Warranty, Insurance, Damage and Theft.**

Response:

HP commercial notebooks are engineered to withstand the rigors of mobile users. As such, they integrate a number of important durability and reliability features, and do not have parts that can be easily removed, tampered with, or broken.

The HP ProBook 4440s includes a spill resistant keyboard, brushed aluminum finish for durability and style, and wear-resistant HP DuraFinish to keep the keyboard looking newer longer.

The Targus Notebook Skin with Handle is designed to fit up to 14” notebooks with an extended battery and 14” notebooks without the extended battery. The durable weather-resistant neoprene material helps protect the notebook against drops and scuffs while guarding against the elements. The soft, scratch-resistant interior lining provides confidence that the portable computing device will be protected when stored inside. A large size zippered compartment provides additional space to store a power adapter and the interior of the case also features a mesh pouch for additional storage. This notebook skin features a thin, low-profile design with a padded retractable handle making it easy to carry on its own or inside another case. This notebook skin can be easily labeled.

6.5.5. Device Power

The portable computing device will have a battery capacity that will allow the device to be used throughout a standard school day without being recharged. The battery will need to have the ability to be recharged by the student at home or elsewhere or through a type of multi-unit recharger at the school, and will need to be able to be recharged overnight or sooner. The device shall also be able to be powered by a standard electrical plug.

The Bidder must specify the recharge time, electrical load, battery life, and other relevant electrical specifications of its solution. Although each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution based on specifications supplied by the Provider — including electrical wiring needs — the bid solution should be designed to minimize necessary costs of building preparation in terms of adding electrical receptacles or additional power to classrooms.



The proposed solution should respect the limited electrical power capacity within the school and classroom environment.

The Department recognizes that while the type of usage can impact battery life, that in general battery life is often most impacted by the display, motors, and network radios. The Bidder must describe its strategy to ensure sufficient battery life, and how its solution takes into account common battery intensive tasks.

Battery replacements and proper recycling of spent batteries will be done within the per seat cost and in such a way that does not impact teaching and learning. The Bidder must describe its plan for providing replacement batteries and for recycling spent batteries.

Response:

The HP ProBook 4440s Notebook PC is configured with a battery pack which will enable the portable computing device to last through a typical school day without being recharged. The battery has the ability to be recharged by the student at home or elsewhere, and/or charge in a multi-unit recharger at a school. The battery will recharge in a time period less than overnight. The HP notebook also can be powered by a standard electrical plug.

The HP ProBook 4440s configuration supports a 6-cell battery that provides approximately 7 hours and 30 minutes of battery life. Recharge time for the system in OFF mode or Standby is 2.5 hours, while for the system on it is 3 to 5 hours (depending on system power consumption). Electrical Loading is 1.7 A at 90 VAC, 0.85 A at 180 VAC.

HP will include HP ProBook 4440s-compatible HP Power Assistant Software (or other similar model-dependent power management software) in the master “gold image” created for the HP ProBook 4440s. HP will work with the State and our local logistics resource to develop an optimal set of power management settings to be deployed statewide. Our local logistics resource will utilize image management and control software to adjust these power management setting as required changes are identified during this program to maximize battery life of the HP ProBook 4440s Notebook PC.

The HP proposal includes charging stations that would be available in the event a student neglects to charge the device at home. The charging station proposed would accommodate up to five batteries at one time. The initial proposal allocates charging stations based on school size, where larger schools would have more stations (for example, 4 or 5) than smaller schools (for example, 2 or 3). HP will work with the State to refine the current coverage model to optimize battery charging stations per location.

HP offering includes the following number of charging stations based upon an average number of charging stations for small, medium & large schools, (the actual number of charging stations could be allocated by school enrollment). Our proposed number of battery chargers with five battery capacity each is:

- Three charging stations for 188 small schools (estimate 0-250 students per small school)
- Five charging stations for 71 medium school (estimate 251-500 students per medium schools)
- Eight stations for 56 large schools (estimate 501-1000 students per large schools)



Estimates are based off of grades 7-12 we will/can support grades K-6 if they chose to opt into this contract. For the Maine School District, or any other state school district, we will simulate the same ratios.

Using these assumptions, HP would provide a total of 2,027 each “5 battery capacity charging stations”. Power requirements for these devices are 110V, or equivalent 10 battery capacity charging stations.

HP will include 10,135 additional spare batteries for use with supplied charging stations (5 per charging station) as a part of this offering for the Maine school district assuming 100% grades 7-12 participation.

HP will work with all other state entities that may choose to participate with an appropriate level of spares.

For charging stations included as a part of this standard offering above, HP will substitute one each - 10 battery capacity charging station in place of two each - 5 battery capacity charging stations upon request of the State or District.

The primary 6-cell battery and replacement batteries carry a one-year limited warranty. The charging stations are covered under warranty as a part of the managed services supplied under this contract.

Additional charging stations and additional spare batteries over and above the included quantities are being offered as optional hardware.

In situations where schools choose not to allow students to take devices home, schools can purchase HP charging carts (Optional Hardware Section 6.7.2) designed to securely store and charge ElitePads inside the classroom. There are two options: (1) a 20-unit charging cart, and (2) a 30-unit Managed Charging Cart. HP carts have a large compartment with individual, smooth-edged shelves for easy, quick, and safe loading and unloading by teachers and students, and a separate, locked IT compartment to store ElitePad power adapters (Charging and Managed Charging Carts) and Ethernet connectors (Managed Charging Carts). The HP Managed Charging Carts include Ethernet cables for convenient batch installation of software updates or virus protection.

HP understands the user’s need for a battery that will last for 7.5 hours on battery power and the life of the battery needs to be for the 4 years of use. HP expects the batteries proposed to satisfy the 4 year battery requirement as long as the batteries are used under normal operating conditions and are utilized fully and routinely. Additionally, allowing for discharge of the battery and fully recharging so the battery cells are exercised properly is important to extend battery life.

Advances in battery technology have increased capacity and lifecycle. HP’s recommends the State replace batteries on an as needed basis. The primary 6-cell battery and replacement batteries carry a 1-year limited warranty. The charging stations are covered as a part of the managed services supplied under this contact.

HP Support Assistant Software will be included in the master “gold image” and, includes the HP Battery Check utility which can be utilized to test current battery condition. A current version is located at:

http://h20239.www2.hp.com/techcenter/battery/battery_ts.htm



HP retains the ownership of unit and therefore retains responsibility for the disposal of the original batteries. The replacement batteries will be disposed of by HP utilizing approved recycling processes and capabilities such as those utilized at HP's facilities within the US.

The HP 4440s includes an external 90W HP Smart AC Adapter.

6.5.6. Keyboard

The portable computing device will have an appropriately sized keyboard function that facilitates text input, integrated into the device, into the carrying case, or some other effective method. While an ideal solution would include a standard-size keyboard, it is recognized that a smaller size may be necessary. Nonetheless, the Department seeks a keyboard interface of sufficient size and ease of use for students and teachers to be able to do their work effectively and efficiently without discomfort.

Response:

The HP ProBook 4440s configuration includes a standard sized keyboard. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys.

6.5.7. Screen

The portable computing device will have a color screen of sufficient size with good resolution. While the Department will not mandate a screen size, the solution should take into account ease of use and functionality (as described below in **Section 6.6, Software and Function** as well as any requirements defined in **Section 6.5.1, Assessment Compatibility**). In general, the higher the resolution the better. The Provider should keep in mind portability, size, and weight.

Response:

The HP ProBook 4440s configuration includes a 14.0-inch diagonal anti-glare widescreen LED-backlit HD display. The display has a 16:9 aspect ratio, and a 1366 x 768 resolution.

6.5.8. Mouse/Pointing Function

The portable computing device will have a mouse/pointing capability that provides pointing functions and is easy to use. It is preferable for pointing functions to be integrated into the device (e.g. trackpad, track point, touch screen, etc.) and not rely on a separate attachment.

Response:

The HP ProBook 4440s configuration includes a Touchpad with gestures support, including an on/off button with LED indicator, two-way scroll, and two pick buttons.



6.5.9. Audio

The portable computing device will have built-in audio capabilities, including speakers for personal use and an audio-out capability that accepts standard 1/8" audio connectors for headphones or speakers. It should also include an integrated microphone and audio-in capacity.

Response:

The HP ProBook 4440s configuration includes SRS Premium Sound optimized for high fidelity audio. In addition, the HP ProBook 4440s includes integrated stereo speakers, integrated microphone, function keys for volume mute, volume up, volume down; play, rewind, and fast-forward of video and audio files, stereo headphone/line out, and stereo microphone/line in.

6.5.10. Camera

The portable computing device will have an integrated, built-in camera capable of capturing/recording images and video.

Response:

The HP ProBook 4440s has a 720p HD webcam.

6.5.11. Size

The portable computing device will fit on school desks and be easily carried by an adolescent-aged student.

Response:

The HP ProBook 4440s meets this requirement based on overall form factor including optimal size. The HP ProBook 4440s has overall dimensions (w x d x h) of 13.35 x 9.27 x 1.10 in.

6.5.12. Ports

The device should ideally have additional ports/capacity for attachment of external devices. In addition, the device will be capable of connecting to standard video output devices such as digital projectors or monitors. It is desirable that the device will be compatible with common interactive white board systems.

Response:

The HP ProBook 4440s platform includes a VGA and HDMI port.

The HP ProBook 4440s meets this requirement for attachment of external devices. The HP ProBook 4440s configuration provides interfaces for RJ-45/Ethernet and USB.

6.5.13. Boot Time/Wake Time

A device that starts and is ready for use quickly is highly desirable. The Bidder must specify the boot and wake time for its device.

Response:

The average boot time for the 4440s is 56.32 seconds. The wake time for the device is 19.35 seconds.



6.5.14. Upgrades

Upgrades to the portable computing device, if proposed, during the term of the contract will be done within the per seat cost at a time that does not impact teaching and learning.

Response:

HP acknowledges and understands.

6.5.15. Ergonomics

The system and design will be one which can be used efficiently and comfortably with a minimum amount of fatigue or adverse physical effects. The Bidder must specify what ergonomic standards or guidelines it has adopted in its proposed design.

Response:

The HP ProBook 4440s Notebook PC proposed is designed to be used efficiently and comfortably with a minimum amount of fatigue or adverse physical effects. In its design, HP has taken into consideration ergonomic standards and guidelines.

HP is continually testing to ensure that our notebooks are comfortable and easy to use. We follow industry standards to provide palm rests, zero slope, low-travel technology, key pitch (inter-key spacing) that is equivalent to desktop keyboards; displays with front-of-screen viewing quality; and casework, key-tops and displays with low reflectivity.

Additionally, we test our touchpads to ensure the proper level of texture and drag. As touchpads grow to accommodate gestures, we have added palm rejection and tested settings to ensure that there is no touchpad interference during typing tasks and no delay in responsiveness when the touchpad is used. We have also tested gesture efficiency and instructions through our documentation.

In terms of the American and International Ergonomic Standards ANSI/HFES100-2007 and ISO9241, HP has a representative on both standards bodies. In addition, an HP representative is currently the co-chair of the ANSI/HFES 100-2012 revision committee, co-chair of the Input Device committee and a member of the Displays revision committee. Incidentally, HP authored a study referenced in the Monitor Viewing Angle section of ANSI/HFES100-2007. HP is also a member of the Office Ergonomics Research Committee www.oerc.org - through this organization we assist in the funding of leading research in the area of office ergonomics. Moreover, an HP representative is currently Treasurer of the Executive Board of this organization, and HP representatives in the past have held the position of President.

6.5.16. Accessibility

It is the intent to purchase hardware and software that provides the highest degree of accessibility to all users, including users who may have an impairment that interferes with the use of the device. The solution will have the capacity to interface with peripherals, software and assistive technologies used by students, teachers and others with visual, hearing, mobility, communication and/or cognitive impairments and will conform to the ISPB-approved Computer Application Program Accessibility Standard which can be found at:

http://www.maine.gov/oit/accessibility/software_policy.html



There must not be a need for complex and expensive adaptation and/or specialized design later to meet the needs of users. The design should communicate necessary information in as many different forms as possible (e.g., verbal, auditory, tactile, pictorial) to accommodate needs. It should be of appropriate size and should be operable in at least one mode for those with limited hand, arm, leg or trunk strength, flexibility and range of motion. Space should be provided for approach, reach, manipulation and use regardless of a user's body size, posture or mobility.

The Bidder must describe to what extent its proposed solution satisfies this requirement. This should include a description of whether and how the device provides the functionality and/or the capability to interface with peripherals, software and assistive technologies for visual, hearing, mobility, communication and cognitive impairments.

Response:

HP commercial notebooks meet this requirement with Microsoft operating system accessibility options.

HP uses the Voluntary Product Accessibility Template (VPAT) as a way to assist customers in determining how HP products support the 'Electronic and Information Accessibility Standards' set forth in regulations of the US Architectural and Transportation Barriers Compliance Board (36 CFR Part 1194), which implements Section 508 of the Rehabilitation Act (29 USC 794d), as amended by P.L. No. 106-246 (July 13, 2000).

Each VPAT provides a summary and detail level description how HP products conform to specific Section 508 standards.

For more details, please refer to this link: <http://v4nzpro.houston.hp.com/508Accessibility/>.

Comparison of Accessibility Features in Various Versions of Windows

In addition, key accessibility features are included in the Microsoft Windows Operating System, with slight variations between Windows 7 and Windows 8. For the sake of brevity, the chart below summarizes the functionality, but this response, in electronic format, provides active hyperlinks to learn more about these accessibility functions.

Microsoft Windows accessibility features are listed below. If a tutorial is available to help you adjust options related to the feature, the feature name is linked. Select the name of the product at the top of the column to display a full list of tutorials for the product. In some cases, tutorials for one version of a product will also help you adjust the feature in another version for which a tutorial is not available.

Table 1. Microsoft Windows Accessibility Features

Features Related To:	Windows 8	Windows 7
All Accessibility Areas	Accessibility Features Loaded by Default	Accessibility Features Loaded by Default
	Apply settings to logon desktop	Apply settings to logon desktop
	Ease of Access Center	Ease of Access Center
	Keyboard Shortcuts	Keyboard Shortcuts



Features Related To:	Windows 8	Windows 7
	Fast User Switching	Fast User Switching
	Get recommendations to make your computer easier to use	Get recommendations to make your computer easier to use
	Make accessibility settings default for new users	Make accessibility settings default for new users
	Notification (sound and visual)	Notification (sound and visual)
	Online Accessibility Help	Online Accessibility Help
	Synchronize Accessibility Settings between PC's	Save Accessibility Settings to File
	Speech Recognition	Speech Recognition
	Microsoft Account	User Profiles
	Windows Touch	Windows Touch
Vision	Click Lock (included in Mouse Options)	Click Lock (included in Mouse Options)
	Cursor width	Cursor width
	High Contrast	High Contrast Schemes
	Magnifier (control from edges of the screen with touch-enabled device)	Magnifier (now with lens mode and improved magnification)
	Mouse Keys	Mouse Keys
	Narrator	Narrator
	Personalize your computer (including changing text size without losing graphics quality)	Personalize your computer (including changing text size without losing graphics quality)
	Pointer Schemes (included in Mouse settings: Search > Settings > Mouse)	Pointer Schemes
	Pointer Speed & Acceleration (included in Mouse settings: Search > Settings > Mouse)	Pointer Speed & Acceleration
	Pointer Visibility: Show Pointer Trails, Hide Pointer While Typing, Show Location of Pointer (included in Mouse settings: Search > Settings > Mouse)	Pointer Visibility: Show Pointer Trails, Hide Pointer While Typing, Show Location of Pointer
	Scalable User Interface	Scalable User Interface



Features Related To:	Windows 8	Windows 7
	Elements	Elements
	What happened to Serial Keys?	What happened to Serial Keys?
	Snap To (included in Mouse settings: Search > Settings > Mouse)	Snap To (included in Mouse Options)
	Sound notification	Sound notification (Sound Sentry)
	Sound Schemes	Sound Schemes
	ToggleKeys	ToggleKeys
Hearing	Notification (visual)	Notification (visual)
	What happened to Serial Keys?	What happened to Serial Keys?
	Sound Volume Control	Sound Volume Control
	Text or visual alternatives for sound	Text or visual alternatives for sound
	Turn on text captions	Turn on text captions
		Microsoft Office Live
Dexterity and Mobility	Click Lock (included in Mouse Options)	Click Lock (included in Mouse Options)
	Configure mouse for right- or left-handed use, choose click speed (included in Mouse settings: Search > Settings > Mouse)	Configure mouse for right- or left-handed use, choose click speed
	Cursor Width Control	Cursor Width Control
	Filter Keys	Filter Keys
	Mouse Keys	Mouse Keys
	On-Screen Keyboard (now can be resized and includes text prediction)	On-Screen Keyboard (now can be resized and includes text prediction)
	Pointer Schemes (included in Mouse settings: Search > Settings > Mouse)	Pointer Schemes
	Pointer Speed & Acceleration (included in Mouse settings: Search > Settings > Mouse)	Pointer Speed & Acceleration
	Pointer Visibility: Show Pointer Trails, Hide Pointer	Pointer Visibility: Show Pointer Trails, Hide Pointer



Features Related To:	Windows 8	Windows 7
	While Typing, Show Location of Pointer (included in Mouse settings: Search > Settings > Mouse)	While Typing, Show Location of Pointer
	Scalable User Interface Elements	Scalable User Interface Elements
	What happened to Serial Keys?	What happened to Serial Keys?
	Snap To (included in Mouse settings: Search > Settings > Mouse)	Snap To (included in Mouse Options)
	Speech Recognition	Speech Recognition
	Sticky Keys	Sticky Keys
	Toggle Keys	Toggle Keys
	Windows Touch	Windows Touch
Language and Learning	Click Lock (included in Mouse Options)	Click Lock (included in Mouse Options)
	Cursor Width Control	Cursor Width Control
	Personalize your PC (including changing text size without losing graphics quality)	Personalize your computer (including changing text size without losing graphics quality)
	Pointer Schemes (included in Mouse settings: Search > Settings > Mouse)	Pointer Schemes
	Pointer Speed & Acceleration (included in Mouse settings: Search > Settings > Mouse)	Pointer Speed & Acceleration
	Pointer Visibility: Show Pointer Trails, Hide Pointer While Typing, Show Location of Pointer (included in Mouse settings: Search > Settings > Mouse)	Pointer Visibility: Show Pointer Trails, Hide Pointer While Typing, Show Location of Pointer
	What happened to Serial Keys?	What happened to Serial Keys?
	Snap To (included in Mouse Options)	Snap To (included in Mouse Options)



Features Related To:	Windows 8	Windows 7
Seizure Disorders	Cursor Blink Rate (under Keyboard settings: Search > Settings > Cursor blink rate)	Cursor Blink Rate

6.5.17. Disposal

The Provider will ensure that no devices or materials supplied by it are disposed of improperly. The Provider will ensure that associated hazardous constituents are kept out of solid waste and wastewater. Examples of possible hazardous constituents are: printed circuit boards, lithium batteries, and mercury-containing lamps for screen illumination. It is desirable that the device is highly recyclable. The Department recognizes that eventually, the devices will be retired from use and wants to minimize the environmental impact of the equipment deployed as part of the solution.

Response:

HP will ensure that no devices or materials supplied by it are disposed of improperly. HP will ensure that associated hazardous constituents are kept out of solid waste and wastewater.

The HP ProBook 4440s:

- Is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.
- Is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- Is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).

HP is recognized as an industry leader globally on the question of proper handling and disposal of all materials used in manufacturing, repair, replacement, and packaging. HP 100% recycles. No materials of any kind that HP utilizes in this program will be improperly disposed of in any participating states or anywhere else in the world. HP dedicates itself to being environmentally friendly.

6.6. Software and Function

6.6.1. Applications

The MLTI has adopted and promoted two models to guide teacher practice and the integration of technology into instruction and learning. These models are *Technological, Pedagogical, Content Knowledge* (TPCK) by Drs. Punya Mishra and Matthew Koehler (<http://www.tpck.org>) and *Substitution, Augmentation, Modification, Redefinition* (SAMR) by Dr. Ruben Puentedura (<http://www.mlti.org/samr> and <http://www.hippasus.com/rrpweblog/>). Bidders must describe the tools and functionalities included in the solution and their anticipated use in light of these models.

The solution must, at a minimum, provide the students and teachers with software to facilitate the following functions to support educational needs:

- 6.6.1.1. Writing (e.g., word processing, journaling, communications, editing and revision, sharing, etc.)



Response:

As the core focus of this section applies to software applications, responses in this section are presented on behalf of HP and Microsoft.

HP and Microsoft understands and enables the models promoted by MLTI, guiding teacher practice and integration of technology into instruction and learning: The Technological Pedagogical Content Knowledge model advanced by TPACK and the Substitution, Augmentation, Modification, Redefinition (SAMR) model advocated by Hippasus.

HP and Microsoft advocate innovative technology practices and delivers teachers training and workshops supporting educator technological, pedagogical, and content knowledge, such as delivering workshops and training through Microsoft's Partners in Learning (PiL) team. TPACK (TPCK) is recognized for its contribution to Microsoft's Partners in Learning, and has shaped how Microsoft thinks and works with educators in pedagogy, content expertise, and technology. Additionally, our work with the Teachers Education Initiative (TEI) benefit from the substantial contributions and participation of TPAC and Dr. Punya Mishra. We have long held that technology is simply a tool that when used appropriately in educational contexts it can help improve teaching and learning. However, technology is only one piece of a larger approach supported by professional development, content support, and instructional technology training.

Our approach is also in alignment with the SAMR model advanced by Ruben R. Puentedura, Ph.D. Indeed, our proposed academic platform is powerful, feature rich, easy to use, and flexible. The proposed tools support the creation of new, redefined and transformative tasks, workflows that are not yet imagined. Moreover, our tools provide ability to publish and share high quality content and enable unexpected instructional efficiencies.

In conjunction with education experts from around the world, we explore new approaches and resources that any school or school system can use, and the critical teacher and instructional leadership development necessary, to help students achieve their full potential. Microsoft also works with educators and industry leaders around the world to transform and optimize technology implementation. In addition, Microsoft has developed and published Infrastructure Optimization models designed to evolve infrastructure, increase productivity, and transform the technology environment (<http://www.microsoft.com/optimization/leftNav/overview.mspx>).

In support of Innovative Teaching and Learning Research, we work with education and political leaders in countries around the world who recognize the imperative to prepare their youth for the 21st Century. Microsoft proudly sponsors of the Innovative Teaching and Learning (ITL) Research project. This ambitious initiative aims to provide education policy evidence on what achieves results for students when integrating technology into teaching and learning. Microsoft is dedicated to education excellence and demonstrates this commitment in many ways, and partners with global and local education leaders, such as UNESCO.

Likewise, HP supports innovative research to STEM instruction through its Catalyst Grant program. With consortia globally working in teams across secondary and tertiary institutions, educators are developing new methodology for professional development, assessment and models for STEM instruction.

Microsoft's compliant academic platform proposes software that provides students and teacher with feature rich software capabilities. With a focus on supporting teachers and students,



Microsoft proposes technologies such as Microsoft Office 365 for Education, Microsoft Office, Windows 7 or 8, Internet Explorer, and optional academic and productivity tools that facilitate education functions and support students and teachers. Our solution supports the Common Core State Standards, their outcomes and education needs in:

- Writing
- Reading
- Data Analysis
- Computational Thinking
- Presentations and Publishing
- Multimedia Creation
- Research
- Communication and Collaboration

In alignment with the models adopted, Microsoft supports Innovative Educator workshops designed to educate trainers and teachers on instructional best practices using technology. These workshops integrate the tools proposed as part of our Microsoft Innovative Educator workshops. Microsoft also offers online courses, materials, resources and provides easy to understand help files and on-line training materials. Moreover, additional information regarding the training content for Microsoft Office can be found at

<http://office.microsoft.com/en-us/help/training-FX101782702.aspx>

Table 2. The Proposed Microsoft Academic Platform Supporting Education Needs Includes:

Microsoft Office	Office 365 for Education	Windows 7 or 8 & Internet Explorer	Additional & Optional Apps
<ul style="list-style-type: none"> • Access • Word • Excel • Lync • PowerPoint • Publisher • Outlook • OneNote 	<p>Cloud-based professional email Video conferencing and IM</p> <p>Web-based viewing and editing using Office Web Apps Share files inside and outside school</p> <p>Secure Student and Teacher Data</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p> <p>Compliant with Industry Standards &</p>	<p>Supporting students and teachers with desktop power using tablet form factors. Beautiful, fast, and fluid experience that you can personalize with the people, applications, and sites you need.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click</p>	<p>IT Academy-Supporting CTE Standards</p> <p>Education, Publisher and Content Provider Apps (such as those from Windows Store)</p> <p>Office Store and Apps</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p>



Microsoft Office	Office 365 for Education	Windows 7 or 8 & Internet Explorer	Additional & Optional Apps
	leadership in transparency.	away.	Optional scientific tools from Microsoft Research.

Table 3. In addition to our support of MLTI’s adopted models, Microsoft has provided a summary of our tools supporting the functional needs identified in this section. Also, we have provided examples of envisioned use as requested.

Summary Compliant & Relevant Tools	Envisioned Use Examples
Access 2013 Basic and Advanced Database, Reporting, Design	Supporting CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Supports data analysis and modeling; Develop advanced data models, support analysis, capture data, develop reports, conduct analysis, Support computational thinking and informational management; synthesized knowledge and creativity with database functionality
Excel 2013 Basic and Advanced High Quality Computation, Analysis, Modeling, Spreadsheet, Collaboration, Communication	Supporting Mathematics CCSS, NGSS (Science) and ELA standards, & individual state requirements, Develop and conduct fundamental and advanced data analysis; develop rich data visualizations; recognize patterns and support computational thinking with charts and real time data from websites. Support mathematics and science concepts using real world tools used by researchers and employers; supporting computational thinking activities, such as incorporating data, visualizations, and charts, support research and develop data to demonstrate evidence based & research texts; Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.
IT Academy, DreamSpark, Career Forward, Kodu	Supporting Mathematics CCSS, NGSS (Science) and ELA standards, & individual state requirements, Engage computational thinking, data analysis, writing, reading, data analysis, modeling, presentations, multimedia creation using IT Academy. Comprehensive CTE offering supporting technology readiness and certification initiatives with real world tools used by employers; e-learning & teacher resources, curriculum, & software. Students develop projects with ITA learning and take certification exams providing them with industry recognized certifications/credentials in addition to a high school diploma. Easy to use visual programming language for K-5 students using Kodu as an alternative assessment, students develop game-based projects employing computational thinking supporting nontechnical, academic subjects- play using Xbox



Summary Compliant & Relevant Tools	Envisioned Use Examples
<p>Lync IM/Audio/Video Chat/Desktop Sharing/Polls/ Online Whiteboards</p>	<p>Supporting Mathematics CCSS, NGSS (Science) and ELA standards, & individual state requirements, Enables synchronous, online collaboration, sharing, desktop and document sharing, recording online meetings for video playback, presence awareness, supporting text based communication with individuals and groups; individual, group and class distance learning, interview industry experts, invite students to work on Flipped Classroom activities after school, integrates with Microsoft Office Word, PowerPoint, Excel, OneNote and Outlook.</p>
<p>Microsoft Math 4.0 Basic and Advanced Mathematics Graphic Calculator, step by step equation solver</p>	<p>Supporting Mathematics CCSS ELA and NGSS (Science) standards, individual state requirements, step by step problem solving, develop high quality 3D and 2D graphs, Supporting computational thinking, Support formula and triangle equations, support remediation of mathematics, support computational thinking and data analysis.</p>
<p>Office 365 for Education Cloud-based, Secure Communication & Collaboration, Productivity, Office Web Apps</p>	<p>Supporting Mathematics CCSS ELA and NGSS (Science) standards, individual state requirements, Online Cloud storage, email store, IM/Audio/Video communications; Office Web Apps; interactive distance learning, research and engagement with other cultures on line, video/audio, support learning needs across academic content areas and throughout desired grade levels.</p>
<p>OneNote 2013 Easy to Use Flexible Digital Notebook</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels; Capture video notes, audio notes, handwritten notes, record performances, speaking, narration, listening activities, develop writing examples, share & coauthor notes, capture digital inked notes, Review synchronized audio/video and notes.</p>
<p>Optional/ Additional 3rd party applications Available at the Windows and Office Store & Side Loaded Apps</p>	<p>Capable of supporting multiple CCSS and individual standards. Additionally, no cost and low cost third party applications are also available to provide optional, added support for this requirement if desired. Add applications for Windows and Office to extend and customize; Add consumer, education and third party applications supporting possibilities for existing and new instructional tasks and workflows; Internet Explorer 10 Add-in support third party website capabilities; access publisher content, develop videos with MovieMaker, manipulate digital images using Photo Gallery; Use PhotoSynth to create panoramas and 3D photo environments; Interactive Classroom used for real time polling/interactivity with K-6 students</p>



Summary Compliant & Relevant Tools	Envisioned Use Examples
<p>Outlook 2013 Definitive email, Message & Calendars</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Enables asynchronous communications; Manage email, calendars for student meetings; collaborate with teachers, students and researchers. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.</p>
<p>PowerPoint 2013 Basic and Advanced High Quality, Interactive, multimedia Authoring, Collaboration, Communication, Personal Tablet, In Person, On Line Presentations</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Develop audience, on line, and individual interactive multimedia texts and presentations, edit video and photos inside PowerPoint, Save to HD video, collaborate and coauthor with students, researchers, and distant experts , presentations and publishing, present findings with appropriate language, vocabulary supporting listening and language activities. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.</p>
<p>Publisher 2013 Basic and Advanced Content Publishing, Simplified Site Design, Creative Design</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Supporting student presentations and publishing; Supporting writing; Publisher allows students to transform text into fine typography projects for the screen or in print. Students use stylistic sets, and can use new Text Effects, Picture Effects, and even print out photos if needed using new Photo Center Printing.</p>
<p>Windows & IE Fluid, Fast Operating System supporting Touch, Keyboard, Mouse, with Access to sites students and teachers need.</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Provides touch capabilities, digital ink, equation input with digital ink, handwriting input with digital ink; touch screen keyboard, accessibility, speaking/narration, speech recognition, built in snipping tool, calculator, Access publisher, content developer and education related content. Add applications for Windows and Office to extend and customize. Add consumer and third party applications and supporting possibilities for existing and new instructional tasks and workflows. Internet Explorer supports information management, research, website browsing, streaming, safety and security</p>



Summary Compliant & Relevant Tools	Envisioned Use Examples
<p>Windows Live Movie Maker & Photo Gallery Digital image and movie creation and editing</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/ content areas and grade levels. Powerful, simple digital photo editing, import, edit and share digital photos. Quick, Fast movie creation, edit clips, audio, add effects, and share movies. Support creative and instructionally related digital images and movies for use in presentations and supporting textual evidence. Visually and audibly represent abstract and concrete, concepts; Incorporate across disciplines and content areas and grade levels.</p>
<p>Word 2013 Fundamental & Advanced High Quality Authoring, Text Development, Word Processing, Collaboration, Communication, Reading</p>	<p>Supporting ELA CCSS, Mathematics and Science CCSS, individual state requirements, multiple language support; built in translation tool, research tool, search tools, View texts and video playback inside Word. Co-author in real time; Open PDF files, edit and save. Edit photos inside Word, Search for Online video and photos inside Word, Receive Readability Statistics, and interactive grammatical and spelling feedback. Communicate research findings; Create literary, creative, technical, informational, research and other texts; Document findings, conclusions, and document synthesized knowledge and concepts; Manage citations, references, and generate Works Cited and Bibliography pages. Use during presentations and publishing supporting listening, language and communications tasks; Create high quality, evolve and elaborate text; read informational and literary texts. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.</p>

Microsoft’s proposed platform supports students and teachers and facilitates education needs and The Common Core Standards, individual state standards and their outcomes. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. We have provided a table in section 6.7.1 Optional Software for reference that depicts a summary of tools, functionality, requirements. Additionally, we have provided examples of anticipated student uses with our solution. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.





Microsoft Education Teaching & Learning Matrix
A Checkmark Symbol (✓) Indicates Technology Supporting the Requirements

Compliant Microsoft Academic Platform Tools	Functionality	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8	1.1.9
Windows Live Photo Library	Local effects, Themes, Most Recent, incorporate Digital Photos, Auto Show, import and edit video photos and videos, filter for metadata and add a theme						✓	✓		
Windows Live Photo Gallery	Cross platform, Merge digital images with Photo Tools, Import Photos/Video, Separate Edit, and Share digital images online						✓	✓		
Optional Apps for Office										
No Cost Apps or Office Store for Linux/ Phones that the the apps in the Store are representative	Supporting features like Desktop/Screen Mapping, Pencil, Charting, Annotation for Local, Bing App, Firefox/Google+ etc. Additional apps supporting features like Office, Microsoft Teams, etc.	✓	✓	✓	✓	✓		✓	✓	

Microsoft Education Teaching & Learning Matrix
A Checkmark Symbol (✓) Indicates Technology Supporting the Requirements

Compliant Microsoft Academic Platform Tools	Functionality	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8	1.1.9
No Cost Apps or Office Store for Linux/ Phones that the the apps in the Store are representative and could change without prior notice, due to the platform being used. These are the Office Store for a Linux/ Android/ iOS/ and the next Best Party Terms and Conditions. These are the Office Store for the Office Store and the Office Store for the Office Store.	Some third party apps for better functionality in Word, Excel, PowerPoint, OneDrive, OneNote, Publisher, Access, etc. (Note: Not all are available for Linux/ Android/ iOS/)	*	*	*	*	*	*	*	*	*

* Third party apps may provide additional or enhanced functionality in support of education needs.



Upon award, Microsoft and HP will work with the State(s) to further refine and align technologies to the Common Core State Standards and Individual State Standards and will offer additional guidance regarding our tools as this process and standards evolve.

6.6.1.2. Reading (e.g., annotating, excerpting, sharing, determining complexity, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.3. Data analysis and modeling (e.g., spreadsheet, graphing and charting, GIS, predict and explain, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.4. Computational thinking (e.g., analyzing and organizing data, data modeling and simulations, programming, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.5. Presentations and publishing (e.g., slide shows, web authoring, speaking/narrating text, providing feedback, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.6. Multimedia creation (e.g., creation and manipulation of digital images, audio, video, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.7. Information management (e.g., database, concept mapping, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.8. Research (e.g., Internet browsing with the ability to access and utilize common multimedia and interactive content like streaming audio/video, javascripting, java applets, HTML5, Flash, etc.).

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.

6.6.1.9. Communication and collaboration (e.g. sharing data, asynchronous and synchronous text-based communications, video/audio chat, etc.)

Response:

The overview of HP's recommended software environment is provided in Section 6.6.1.1.



The Bidder must describe the applications included in its solution including how it envisions those tools supporting the functional needs described in this section.

Response:

The overview of HP's recommended software environment including how it envisions these tools supporting the functions supplied is provided in Section 6.6.1.1.

6.6.2. Multi-State Standards

6.6.2.1. Common Core State Standards for English Language Arts

Forty-six States have adopted the *Common Core State Standards for English Language Arts*. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and the learning of the outcomes described by the *Common Core State Standards for English Language Arts* including the 4 component sections: reading, writing, speaking and listening, and language. Bidders should pay particular attention how the solution provides tools and functionality to support text complexity, informational text, and text types as described in the CCSS for ELA (<http://www.maine.gov/education/lres/ela/standards.html>).

Response:

HP/Microsoft's compliant academic platform proposes software provides students and teacher with software tools that facilitates the education functions required and supports the Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects. With a focus on supporting teachers and students, Microsoft proposes technologies such as Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer, and optional academic and productivity tools that facilitate education functions and support students and teachers.

Description of Tools

Educators around the world use Microsoft tools because of their flexibility, features, and capacity for to produce vibrant, high quality content and text development. Over the past decade, innovation throughout the Microsoft Office family has resulted in powerful and flexible technologies that set the standard for productivity tools. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences.

We have provided examples tools and functionality and examples of anticipated academic use with our solution for the English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects Common Core Standards. Because of the power and flexibility of our proposed academic platform, we expect that the use and academic application of these tools will evolve over time and enable transformational education workflows.

Microsoft provides description of the tools and functionalities included in our proposed, compliant academic platform, supporting the teaching of and the learning of the outcomes described by the Common Core State Standards for English Language Arts including the four strands: reading, writing, speaking and listening, and language.



In addition, we have provided a description of tool functionality to support text complexity, informational text, and text types as described.

Table 4. Descriptive Tools Summary- Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p><i>Feature Rich Productivity Tools on Tablets</i></p> <ul style="list-style-type: none"> • Word • Lync • PowerPoint • Publisher • Outlook • OneNote <p>Supporting technologies for Science and Technical Subjects</p> <ul style="list-style-type: none"> • Access • Excel 	<p><i>Cloud based Tools</i></p> <p>Video conferencing & IM; Word, Excel, PowerPoint, OneNote and Outlook Office Web Apps for web-based viewing and editing, professional email, share files inside and outside school</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p> <p>Compliant with Industry Standards & leadership in transparency</p> <p>Secure Student and Teacher Data.</p>	<p><i>Desktop Capabilities on Tablet form factors</i></p> <p>Windows supports students and teachers with desktop power using tablet form factors.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Beautiful, fast, and fluid experience that students can personalize with the people, applications, and sites they need.</p> <p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.</p>	<p><i>Education, Publisher and other Education Apps</i></p> <p>Apps from Windows and Office Stores</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p> <p>Optional scientific tools from Microsoft Research</p> <p>IT Academy-Supporting CTE Standards</p>



Table 5. HP/Microsoft propose technology that supports the Common Core State Standards in English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects

Standards (By Strand)	Key Feature of Standards	Functionality and Examples
Reading	Text complexity and the growth of comprehension	Word's Read Mode used to enable reading of text, excerpts of seminal works, annotation of texts using digital ink, highlighting and commenting, narrator, SmartArt graphic organizer for rereading; Search, Research, and Translation Tool support phonics and word recognition, Use OneNote to share curated texts for student groups; conduct online reading activities using Lync's desktop sharing; predict using polling online; record online meetings; play back video; OneNote has audio and video notes and can capture and recognize digital ink in handwriting notes. View text using 3 rd party text readers and publishing applications.
Writing	Text types, responding to reading, and research	Get readability and grade level writing feedback from built in tools inside Word. Get grammatical and spelling feedback inside Office. Develop very high quality, complex informative and explanatory texts with illustrations in Word; edit digital images inside Word; present to class using multimedia and interactive features in PowerPoint. Generate engaging and creative works using Publisher. Share student writing examples using OneNote. Support Writing portfolio using OneNote. Develop quality research texts using multiple sources easily cite and manage sources, efficiently generate Works Cited or Bibliography page using built in tools in Word. Use APA, MLA, Chicago, ISO and other academic styles in writing. Conduct peer editing online, coauthor content and collaborate in Word. Share content using optional social media integration, email, or online using Video or desktop sharing. Publish writing using keyboard skills, using handwriting, using speech recognition built into Windows and integrated in Word, and other Office tools.
Speaking and Listening	Flexible communication and collaboration	Present effectively and develop high quality presentation materials using PowerPoint; Use media strategically, and use assorted media such as SmartArt, video, audio and other object in text. Demonstrate command of the English language capturing presentations using OneNote. Evaluate speaker's point



Standards (By Strand)	Key Feature of Standards	Functionality and Examples
		of view using video capture and synchronized notes in OneNote. Paraphrase text aloud and record it using applications in Windows. Develop creative presentations and save as a HD movie in PowerPoint. Edit video, audio using Apps in Windows. Make strategic use of media in presentations using Word, PowerPoint, or Publisher.
Language	Conventions, effective use, and vocabulary	Support sentence level context using search and research tools in Word, use online reference materials with IE, or built in Word features.

Reading

By supporting robust technologies that embrace industry standards, and supporting third party education applications, Microsoft provides fundamental and advanced technology features. Since Windows is a full operating system, students, and teachers are able to take advantage of powerful, feature rich content creation and productivity tools on their tablets. Students and teachers can work with diverse content and education sources using tools like IE, which provides compelling web experiences and supports sites using third party technologies, such as those using Adobe Flash and other supported browser add-ons.



Additionally, students and teachers can use third party applications (such as eReaders or interactive publishing content) exposing students to a variety of literary, informational texts from publishers and content creators (e.g., Kindle, KNO, NOOK) and other education, consumer and commercial applications, using their Windows device.

Additionally, Microsoft Word provides an engaging reading experience using the Read Mode and is able to open a diverse set of file types. Our tools promote new education tasks and workflows with rich functionality. As an example, students can open and read education text and content contained in a PDF. Using Word, they can also annotate within the file. In this example, the changes can then be saved while in Word.

- Engage in Reading Literary and Informational Texts- Using Word, students gain exposure to a range of texts and tasks. Students are able to get absorbed in texts with the new clean, comfortable reading view.
- Annotate Reading and Writing Texts- Students can annotate content in Word. Users can also open PDF files, make annotated comments, and save as a PDF or other format.



- New Read Mode- Users can engage with informational and literary text using Microsoft Word's new Read Mode. Using the view, editing tools are removed to minimize distractions, but users still have access to the tools that are always handy for reading such as Define, Translate, and Search on Web. These tools can support students as they learn how to clarify the meaning of unknown and multiple-meaning words and phrases a context clues, analyze meaningful word parts, and consult general and specialized reference materials.
- Object zoom- Double-tap with your finger or double-click with your mouse to zoom in and make tables, charts, and images in your document fill the screen. Focus on and take in the information, then tap or click again outside the object to zoom out and continue reading.
- Resume reading- Reopen a document and keep reading right where you left off. Word remembers where readers were, even when the user reopens an online document from a different computer. Online video- Students watch online videos right in Word, without having to leave the document, so they can stay focused on the content.
- Expand and collapse- Collapse or expand parts of a document with just a tap or click. Put summaries in headings and leave it to readers to open the section and read the details if they want.

Writing

Students and teachers can use Microsoft's tools to develop fundamental and advanced writing content. Microsoft Word's flexibility and functionality supports the required writing instructional needs, such as authoring required text types, content development, and text complexity. Students are able to develop their text around the standard text types, including narrative writing texts, creative writing-beyond narrative, informational/explanatory texts, and employ argument and persuasion. Students may prefer Word to develop their texts, although Microsoft Office does not require a specific application to create student writing. However, Word has evolved with this purpose in mind. Publisher also provides support for diverse writing tasks and like Microsoft Word, contains numerous templates that assist students as they create creative writing projects. Of note, Publisher allows students to publish high quality content as HTML and author basic webpages, in addition to flyers, bookmarks, and other creative projects.

Microsoft Word provides the ability to plan, revise, edit, and publish text and supports academic workflows requiring a writing process, and provides flexibility for students as they develop content across instructional disciplines. A formalized writing process is not required when authoring content or collaborating in Word. Additionally, real time group coauthoring and collaboration is supported in Word, and using Excel, PowerPoint, OneNote. In addition, students and teachers can collaborate using video/audio, IM, and email as well with these tools.

Students may take advantage of Word's outline capabilities to help structure their work, or use a customized template as a guide. Additionally, the use of a graphic organization tool during the writing process may be helpful as the student refines purpose and develops text complexity. Students can use the built in SmartArt graphics as part of a prewriting strategy as needed or indicated during instruction. Word has the ability to incorporate digital ink, support equation writing, capturing video, photos, voice recordings, SmartArt, and additional objects, which also facilitates rich content development opportunities.



Students can customize their experiences in Office. Students can use custom templates and customizing commands on the Office Ribbon and Quick Access Toolbar. Students are able to create their own personalized tabs on the Ribbon and create an environment that works best for their particular needs. Using Microsoft's proposed platform, students can save their work to the cloud, share their work with other students as part of a collaborative activity, and work together at the same time or asynchronously. Students are able to use the integrated communications capabilities, and can view presence for group members, set up a video and web chat sessions, IM, coauthor, share documents and their desktop, and peer edit in real-time.

Students can develop independent content or write in groups. Microsoft Office allows teachers and students to engage in real time communication and collaboration. These features support academic scenarios such collaborative group writing and research projects. Additionally, the Microsoft Office collaboration and communication features support student mentors and student experts coaching other students.

Real-time proofing feedback illuminates potential spelling and grammatical errors for students. This capability provides additional support for numerous languages. Students can gain additional insight into the readability of their writing and get an indication if they are writing on grade level. Indeed, writing on grade level and developing grade appropriate texts are essential and teachers play a key role supporting students as they develop their writing skills on grade level.



Readability Statistics	
Counts	
Words	934
Characters	3962
Paragraphs	34
Sentences	37
Averages	
Sentences per Paragraph	1.7
Words per Sentence	22.1
Characters per Word	6.0
Readability	
Passive Sentences	0%
Flesch Reading Ease	16.3
Flesch-Kincaid Grade Level	16.4

To support this aim, students receive feedback very quickly regarding spelling, grammar and readability using Word's built in Proofing Tools. Moreover, students are able to get an indication if they are writing on grade level, using the Review tab in Microsoft Word, Spelling, and Grammar option. Optionally enabled, After Word reviews spelling and grammar, readability insight is displayed using the Flesch Reading Ease and Flesch-Kincaid Grade Level. With their domain expertise, teachers can use this feature another indicator when assessing the student's grade level writing progress.

Complementing scholarly research and supporting academic integrity, Word provides students with built in capabilities so that they easily collect, manage and cite references. Indeed, it is important for students to understand when and how to give credit and recognize sources and the process for citing sources should be supported by the technology. Word allows students to easily and efficiently manage and document research.

Importantly, fundamental, repetitive tasks should be handled by the technology, freeing instructional time for the student and teacher. As an example, if students are working on a research paper, Word performs routine tasks such as assisting students as they manage sources, references, and document citations. Students easily generate a Works Cited or Bibliography page using an appropriate academic style (e.g., APA, MLA, ISO) in Word.

Additionally this capability can be called out by educators and can be used as part of an effort to promote ethical and responsible academic citizenship and appropriate scholarly documentation in support of learning outcomes, academic goals, and the CCSS and individual standards.

Microsoft Office supports student-learning tasks such as providing tools to coauthor to supporting the use of media and visual displays strategically to help achieve communicative purposes, and adapt speech to context and task. Even though students are working on their portable computing devices and saving to the cloud, there is no need to spend extra time instructional time reworking or reformatting content resulting from saving to the cloud. Formatting is preserved throughout the round trip of a document. Students can use their time to focus on important instructional activities and refine their digital manuscripts, presentations, notes, models and projects without reformatting misplaced content resulting from a file that has traveled round trip in the cloud.

Speaking and Listening

Microsoft also supports Speaking and Listening using multiple tools. In addition to Windows applications, Internet Explorer 10 provides access to streaming sites. PowerPoint supports group and individual presentations in person or online. PowerPoint allows students to engage effectively in a wide range of collaborative discussions and present on diverse topics, texts, and issues, allowing students to build on others' ideas and expressing their own ideas clearly. Furthermore, PowerPoint supports collegial discussions and collaboration using the integrated communications features found in Microsoft Office, such as conducting online presentations to individuals and groups.

In addition to standard text and graphics, Microsoft PowerPoint has the ability to incorporate digital ink, support equation writing, incorporate video, photos, voice recordings, music SmartArt, and additional objects. Additionally, they are able to include multimedia elements as part of their work. Students may want to record and play back group activities and student presentations in support of their speaking and listening tasks.

Similarly, OneNote supports Speaking and Listening standards and outcomes by recording the video and audio during a note taking session. The notes are automatically indexed with video and audio recording. Upon playback, the captured notes are highlighted in sync the video playback. OneNote can support feedback with individuals and group presentations and activities.



PowerPoint allows students to adapt content and their presentations using a variety of contexts and tasks. Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest. Mathematics courses can use PowerPoint as a supplemental tool to develop student projects representing mathematics domains, clusters, or standards. PowerPoint 2013 and Windows enable students and teachers to insert equations into presentations and use the equation gallery



PowerPoint helps students integrate multiple sources of information supporting diverse media and formats. In addition, students are able to use PowerPoint as they present information, findings, and support their evidence clearly, concisely, and logically.

Students are able to make strategic use of digital media ranging from textual, graphical, audio, visual, and interactive elements into presentations that enhance understanding of student or group findings, and reasoning.

Students are able to incorporate qualitative data using a variety of features, such as slides incorporating text boxes, graphics, art, and digital images. This includes features that allow students to create a visual representation of abstract and complex ideas and information using SmartArt. While inside PowerPoint, students can search for online pictures and online video without leaving the app. Students have the ability to manipulate and edit digital photos and video inside PowerPoint and save their presentations as HD Video.

PowerPoint is a familiar and prolific tool and traditionally used when communicating and presenting information with audiences in a variety of physical locations, such as in a classroom or auditorium. PowerPoint continues to support group presentations. Important to understand are new uses of PowerPoint that are now possible. Because of collaborative and communications integration, PowerPoint is useful for numerous online presentation scenarios. Students can present to other students online, work on virtual group projects, and participate in peer coaching. Teachers can share student work, hold parent teacher meetings online, and present to colleagues online.



However, Windows and PowerPoint now provide the capability to deliver more personal, interactive multimedia experiences. As an example, digital storytelling can now incorporate interactive, touch-enabled content authored and viewed in PowerPoint. Students can flip through instructional content using touch, which can incorporate embedded files and online video resources. Given the ubiquitous teacher instructional content authored in PowerPoint, teachers have the potential of transforming their existing presentations and develop interactive resources that use touch. Also, students are able to engage and participate in a range of collaborative discussions using the communications tools in Microsoft Office as well. IM, Voice/Audio, and email are among the supporting options to support speaking and listening.

Language

Microsoft's platform supports the conventions, knowledge of language, and vocabulary extend across reading, writing, speaking, and listening and is facilitated by Windows, Word, PowerPoint, Publisher, OneNote, Internet Explorer and Windows. In Word the grammar and spelling checks combined with readability statistics provide support and flexibility with the language component.

In Microsoft Word, students receive feedback in real-time regarding spelling, grammar and can check the text's readability. Moreover, students are able to get an indication if they are writing on grade level, using the Review tab in Microsoft Word, Spelling, and Grammar option. Text can also read using the narrator and recordings can also be embedded in Word documents. Video content can also be inserted and viewed while in PowerPoint and Word.

Students and teachers are able to use recording capabilities to support replay of language activities to reinforce key concepts. As Microsoft OneNote enables on line and off line note taking, journaling, and it can be used during the prewriting process to incorporate learned patterns, conventions of Standard English, appropriate vocabulary and support the language progressive skills as part of a student portfolio.

Supporting Reading, Writing, Language, Speaking, and Listening across Content Areas

Microsoft OneNote supports academic standards and education outcomes across disciplines and tasks, such as writing, reading, mathematics, science, history, CTE, and elective courses. Students may use OneNote across content areas and grade levels, and use OneNote to compile and organize unstructured information, research, and content. OneNote also supports research, collaboration, information management, communication, note taking, journaling, reflective writing, and the requirements contained in this proposal. Because of its flexibility, OneNote possesses the capacity to support envisioned and yet to be envisioned activities, tasks, and academic workflows and is part of our proposed, compliant academic platform.

Microsoft OneNote is a digital notebook that provides a single place for student or teacher notes and captured ideas, with powerful search that allows students to needed content quickly, and easy-to-use shared notebooks to manage data collection and work together with others more effectively.

Unlike paper-based systems, word processing programs, e-mail systems, or other productivity programs, OneNote delivers the flexibility to gather and organize text, pictures, digital handwriting, audio and video recordings, and more — all in one digital notebook. The Notebook is available locally for off line access and can be synced to the cloud and shared with others as part of collaborative study or supporting existing and new group scholarly research workflows.

Individual students and groups can use OneNote's audio and video notes to capture group performances and activities. Students can provide feedback in OneNote during the recording and upon playback the notes are synchronized and highlighted.

OneNote helps students stay productive by keeping the information easily searchable, reducing time spent searching for information across e-mail messages, paper notebooks, file folders, and printouts. Students can print to OneNote, meaning that OneNote can collect digital printouts of students work, writing, texts, reading, and other projects and support digital student portfolio initiatives. Teachers can use OneNote to support their Open Educator Resources and share instructional content with students.

Students can send content into OneNote and find the content for use using built in search. OneNote also allows content to be tagged and can be used as a personal wiki. Students can collect research and use OneNote as a repository for their research. As an example, students can work together in groups and collect research from the needed website. Students collect needed research from sites using screen clippings. In addition, text captured within the screen-clipping image becomes discoverable through search, and the content can be further used in support of needed research and academic assignments and tasks. When students add screen clippings to the OneNote page, the site's name, URL, date, and time are also captured and available for use in citations.



OneNote is an integrated part of Microsoft Office, which makes it easy to gather, organize, find, and share your notes and information more efficiently and effectively. Powerful search capabilities can help you locate information from text within pictures or from spoken words in audio and video recordings. Furthermore, OneNote's easy-to-use collaborative tools help student teams work together using shared notebooks, and can later access their content whether online or offline.

With all of your information at your fingertips, OneNote provides you a solution for information overload, enables you to work with others more effectively, and helps you stay on top of tasks, schedules, and team information. The familiar look and feel of the Microsoft Office system makes it easy to start using the program right away, minimizing wasted time, and training costs.



We have provided an appendix providing additional descriptions and functionality in the section 6.6.1.1.

6.6.2.2. Common Core State Standards for Mathematics

Forty-six States have adopted the *Common Core State Standards for Mathematics*. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and learning of the outcomes described by the *Common Core State Standards for Mathematics* with a particular emphasis on the eight "Standards for Mathematical Practice" as detailed in Common Core State Standards for Mathematics

(<http://maine.gov/education/lres/math/standards.html#ccss-math>).

Additionally, the solution must include the capacity to format and display mathematical formulas, equations, and symbols. Entry and editing of mathematical formulas, equations, and symbols should be easy and allow for teachers and students to create documents and media that aid with instruction and learning.

Response:

Microsoft's proposed platform supports students and teachers and facilitates education needs and The Common Core Standards for Mathematics, and also supports individual state standards and their outcomes as well. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. As a benefit, students will be able to advance their academic and practical grasp of mathematics using the same tools used by science and business communities, as they solve real world problems. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins.

The Microsoft proposed tools have the ability to easily format and display mathematical formulas, equations, and symbols and support mathematics instruction workflows and tasks related to computational thinking, data analysis and modeling, information management, reading, writing, and presentations, with integrated capabilities for communication and collaboration.

Table 6. Microsoft has provided an overview of the Common Core State Standards for Mathematics with an emphasis on the eight standards for mathematical practices.

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p><i>Feature Rich Productivity Tools on Tablets</i></p> <ul style="list-style-type: none"> •Excel •Access •OneNote •Word •Lync •Outlook •PowerPoint •Publisher 	<p><i>Cloud-based Tools</i></p> <p>Video conferencing & IM; Word, Excel, PowerPoint, OneNote and Outlook Office Web Apps for web-based viewing and editing, professional email, share files inside and outside school</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p> <p>Compliant with Industry Standards & leadership in transparency</p> <p>Secure Student and Teacher Data.</p>	<p><i>Desktop Capabilities on Tablet form factors</i></p> <p>Windows supports students and teachers with desktop power using tablet form factors.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Beautiful, fast, and fluid experience that students can personalize with the people, applications, and sites they need.</p> <p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.</p>	<p><i>Education, Publisher and other Education Apps</i></p> <p>Apps from Windows and Office Stores</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p> <p>Optional scientific tools from Microsoft Research</p> <p>IT Academy-Supporting CTE Standards</p>

Additionally, we have provided examples of anticipated student uses with our solution. While using our tools in mathematics courses, we expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.



Table 7. Examples of anticipated student uses with our solution.

Common Core State Standards for Mathematical Practice	Examples of Use and Functionality
Make sense of problems and persevere in solving	Use Microsoft Math 4.0 to reinforce challenging math problems, from simple to advanced, providing step by step guidance; students tutor and mentor peers using IM/Audio and Video chat; Students develop interactive multimedia presentations that teach other students key concept using PowerPoint. Capture and diagram problems using digital ink in OneNote;
Reason abstractly and quantitatively	Browse web sites using IE, Access supporting text using applications on Windows; Develop presentations describing processes, reasoning, and quantitative measures using PowerPoint. Solve real world problems researched on web and visualize data in Excel
Construct viable arguments and critique the reasoning of others	Use OneNote to capture audio/video presentations of others and critiques can be noted using handwriting. Notes are synchronized and can be viewed at later time. Develop arguments with PowerPoint that include multimedia, and charts supporting thesis.
Model with mathematics	Summarize and describe distributions PowerPoint; Decide if a specified model is consistent with a given data-generating process and validate using Excel. Chart 3D equations using Word (with no cost add-in); Use probability to make decision models;
Use appropriate tools strategically	Flip classroom support using Video/Audio chat and desktop sharing; Develop complex models and analysis using Excel; Capture notes and presentations using OneNote. Use online help to validate tools.
Attend to precision	Use clarity and exact terms when communicating, leveraging Word's built in research tools.
Look for and make use of structure.	Develop understanding of rectangular arrays and their structure using Excel. Experiment with algebraic expressions to reveal underlying structure.



Common Core State Standards for Mathematical Practice	Examples of Use and Functionality
Look for and express regularity in repeated reasoning	Research websites finding appropriate and sound mathematics, and examine reasoning and logic patterns. Read text using Word's View Mode regarding historical figures and their approach to reasoning.

Table 8. Summary of Mathematical Content Standards and Tools.

Mathematical Content	Excel	Microsoft Math	Additional Supporting Tools
Counting and Cardinality	✓	✓	PowerPoint, Word, Windows /IE
Operations and Algebraic Thinking	✓	✓	PowerPoint, Word, Windows /IE
Number and Operations	✓	✓	PowerPoint, Word, Windows /IE
Measurement and Data	✓	✓	PowerPoint, Word, Windows /IE
Geometry	✓	✓	Word, PowerPoint, OneNote
Ratios and Proportional Relationships	✓	✓	PowerPoint, Word, Windows /IE
The Number System	✓	✓	Access, PowerPoint, Word, Windows /IE
Expressions and Equations	✓	✓	PowerPoint, Word, Windows /IE
Statistics and Probability	✓	✓	Word, PowerPoint, OneNote
Real Number System	✓	✓	Access, PowerPoint, Word, Windows /IE
Quantities	✓	✓	Word, PowerPoint, Word, Windows /IE
Complex Number System	✓	✓	PowerPoint, Word, Windows /IE
Vector and Matrix Quantities	✓	✓	PowerPoint, Word, Windows /IE
Seeing Structure in Expressions	✓	✓	Access, PowerPoint, Word, Windows /IE
Arithmetic with Polynomials and Rational Expressions	✓	✓	PowerPoint, Word, Windows /IE
Creating Equations	✓	✓	Access, PowerPoint, Word, Windows /IE
Reasoning with Equations and Inequities	✓	✓	Access, PowerPoint, Word, Windows /IE
Interpreting Functions	✓	✓	PowerPoint, Word, Windows /IE



Mathematical Content	Excel	Microsoft Math	Additional Supporting Tools
Building Functions	✓	✓	Access, PowerPoint, Word, Windows /IE
Linear and Exponential Models	✓	✓	PowerPoint, Word, Windows /IE
Trigonometric Functions	✓	✓	PowerPoint, Word, Windows /IE
Congruence	✓		PowerPoint, Word, Windows /IE
Similarity, Right Triangles, and Trigonometry	✓	✓	PowerPoint, Word, Windows /IE
Geometric Measurement and Dimension	✓	✓	PowerPoint, Word, Windows /IE
Modeling with Geometry	✓	✓	PowerPoint, Word, Windows /IE
Interpreting Categorical and Quantitative Data	✓		Access, PowerPoint, Word, Windows /IE
Making Inferences and Justifying Conclusions	✓		Access, PowerPoint, Word, Windows /IE
Conditional Probability and the Rules of Probability	✓		PowerPoint, Word, Windows /IE
Using Probability to Make Decisions	✓		PowerPoint, Word, Windows /IE

6.6.2.3. Next Generation Science Standards

Twenty-six states are working together on the development of the Next Generation Science Standards. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning described by the vision of science education in "A Framework for K-12 Science Education" inclusive of the Scientific and Engineering Practices, and Cross Cutting Concepts and reflected in the first draft version of the *Next Generation Science Standards* (<http://maine.gov/doe/nextscience/index.html>).

Response:

HP/Microsoft supports the Next Generation Science Standards (currently in drafts, expected to be in codified standards January 2013). We have proposed tools that form an academic platform that supports practices used by scientist as they investigate and build models across scientific domains. We have provided descriptions of our tools for review in section 6.6.1.1, which will support educating students in science and engineering, and facilitate the foundational knowledge for future scientist in the classrooms of today.



Educators around the world use Microsoft tools because of their flexibility, features, and capacity for to produce vibrant, high quality science content. Microsoft Office 365 for Education supports students and teachers with online services that enable collaboration, content development, and communication tools. Educators, staff, and students get anywhere access to email and calendars, Office Web Apps, video and online meetings, and document sharing. Office 2013 supports simple and advanced education needs with flexible yet powerful capabilities and allows for rich, high quality content development.

In addition to our Office and Windows technologies, IT Academy provides additional support with Engineering, Technology, and Applications of Science standards. IT Academy provides e-Learning content used either out of the box with existing curricula or parsed and integrated as needed based on the instructional needs of the teacher, district or state. It can be used as supplemental material or as a course on its own to support students as they earn Microsoft Certifications, which are Industry Recognized certifications that are independently tested and verified by a third party.

Because of the power and flexibility of our proposed academic platform, we expect that the use will evolve over time and enable transformational academic workflows. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. In addition to describing the proposed tools, we have provided examples of anticipated student uses with our solution as they progress through the Next Generation Science Standards. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.

Table 9. Tools Supporting the Next Generation Science Standards.
Please also see our description of tools Section 6.6.1.1.

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p><i>Feature Rich Productivity Tools on Tablets</i></p> <ul style="list-style-type: none"> • Word • Lync • PowerPoint • Publisher • Outlook • OneNote • Access • Excel 	<p><i>Cloud based Tools</i></p> <p>Video conferencing & IM; Word, Excel, PowerPoint, OneNote and Outlook Office Web Apps for web-based viewing and editing, professional email, share files inside and outside school</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p>	<p><i>Desktop Capabilities on Tablet form factors</i></p> <p>Windows supports students and teachers with desktop power using tablet form factors.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Beautiful, fast, and fluid experience that students can personalize with the people, applications, and sites they need.</p>	<p><i>Education, Publisher and other Education Apps</i></p> <p>Apps from Windows and Office Stores</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p>



Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
	<p>Compliant with Industry Standards & leadership in transparency</p> <p>Secure Student and Teacher Data.</p>	<p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.</p>	<p>Optional scientific tools from Microsoft Research</p> <p>IT Academy-Supporting CTE Standards</p>

The proposed Microsoft platform provides tremendous flexibility and capabilities for teachers and students. Our technology supports a diverse range of activities across content areas and grade levels.

Students can conduct remote field research away from Internet connections, capture findings using their portable device’s video camera, and updates their work to the cloud when they are able to connect to the Web. A student working on their phone can review a project rubric while on the bus. Using their portable device, students are able to record video of data collection and the video is synchronized with notes on the class rubric in OneNote.

While conducting research, students can view streamed video from Internet resources with IE. Collaboration and coauthoring support the writing process in real time using Word. Students hold video and IM chats with science peer coaches and update meeting calendars using Outlook. Away from school, another group of students reviews video for a flipped classroom activity. Math students add equations, symbols, and digital ink to their presentations. History teachers share examples of high quality writing texts using a class portfolio in OneNote. Middle school students create an “interactive book” using the interactive multimedia features in PowerPoint.

Table 10. Next Generation Science Standards.

Next Generation Science Standards	Attributes	Summary of Technology Features and Examples
Practices	<p>Scientific and Engineering Practices</p> <ol style="list-style-type: none"> 1. Asking questions (for science) and defining problems (for engineering) 2. Developing and using models 3. Planning and carrying out investigations 4. Analyzing and interpreting data 5. Using mathematics and computational thinking 	<p>Students are able to ask questions and define problems across tools, but may find OneNote especially helpful as it is a digital notebook, which can take notes, audio notes, video notes, and search across notebooks for key words.</p> <p>Windows and IE support fast, fluid web browsing with the sites students and teachers need. Students and teachers</p>



Next Generation Science Standards	Attributes	Summary of Technology Features and Examples
	<p>6. Constructing explanations (for science) and designing solutions (for engineering)</p> <p>7. Engaging in argument from evidence</p> <p>8. Obtaining, evaluating, and communicating information</p>	<p>can visit Microsoft Research, for example to gain technical and scientific papers, download them and read them. They can also access scientific tools, and other no cost tools supporting scientific exploration. Students can develop models using Excel, describe data using Word, and present findings using video and interactive multimedia found in PowerPoint. Students can use SmartArt to depict complex ideas in graphical format with ease. Collaborate and coauthor content using Office. Engage in argument from evidence and document research easily and efficiently with Word. Easily generate Works Cited and Bibliography pages and manage citations. Communicate online with video/IM/Chat and email.</p>
<p>Crosscutting Concepts</p>	<p>1. Patterns</p> <p>2. Cause and effect: Mechanism & explanation</p> <p>3. Scale, proportion, & quantity</p> <p>4. Systems and system models</p> <p>5. Energy and matter: Flows, cycles, & conservation</p> <p>6. Structure and function</p> <p>7. Stability and change</p>	<p>Discover and evaluate patterns using Microsoft Excel, visualize data (scale, proportion, and quantity) represent flows, cycles, and conservation with digital ink, online images, search online for Creative Commons images without leaving Office. Develop presentations for individual use, small or large group presentations in person and online. Conduct research across scientific domains and use OneNote to capture printed material digitally, and capture URL and citation information as part of research collection.</p>



Next Generation Science Standards	Attributes	Summary of Technology Features and Examples
		Evolve knowledge and document findings with Word.
Disciplinary Core Ideas	<p>Physical Sciences PS1: Matter and its interactions PS2: Motion and stability: Forces and interactions PS3: Energy PS4: Waves and their applications in technologies for information transfer</p> <p>Life Sciences LS1: From molecules to organisms: Structures and processes LS2: Ecosystems: Interactions, energy, and dynamics LS3: Heredity: Inheritance and variation of traits LS4: Biological evolution: Unity and diversity</p> <p>Earth and Space Sciences ESS1: Earth’s place in the universe ESS2: Earth’s systems ESS3: Earth and human activity</p> <p>Engineering, Technology, and Applications of Science ETS1: Engineering design ETS2: Links among engineering, technology, science, and society</p>	<p>Use optional no cost Add ins and Office Apps that extend Microsoft Office and Windows, such as model molecules in Word using Chem4Word Add-in. Additional free tools for educators are numerous, but include Worldwide Telescope, which delivers the Cosmos on the portable computing device. There are also add-in for WWT using Excel. http://www.pil-network.com/Resources/Tools has a list of no cost tools relevant for scientific learning. Office has an equation editor that provides students and teachers with easy access to galleries and developing their own equations.</p> <p>Windows has an input panel so students can easily add equations. Microsoft Math add-in allows solving equations and graphing 2D and 3D equations in Word. Represent structure, processes using SmartArt. Evolve high quality information text and research text using Word. Develop creative projects and edit digital pictures using Publisher.</p>



6.6.3. State Specific Standards

6.6.3.1. Maine

While the Provider is not required to provide educational content, each Bidder must identify all of its application software and describe how it will support educational use and how it will align tools and resources with Maine’s *Learning Results* including the *Common Core State Standards*. In addition, the Department anticipates that upon completion, the Next Generation Science Standards will be adopted. More information about Maine’s adopted academic standards and its involvement with *Next Generation Science Standards* development may be found here:

- <http://maine.gov/doe/teaching/standards.html>

Response:

HP/Microsoft proposes compliant tools supporting teachers and students and facilitating the Common Core State Standards and State Specific Standards for Maine. In addition, HP/Microsoft proposes alignment with Maine’s Learning Results Standards and will work with the state to further refine these alignments if desired, when awarded.

At HP/Microsoft, our focus remains enabling people around the world to realize their full potential. An important part of that commitment has been helping individuals develop the skills necessary to succeed in an increasingly complex, technologically advanced, and competitive world. Our proposed, compliant academic platform facilitates diverse education tasks and supports teacher and student education needs and supports the Common Core Standards and Maine’s state standards.

Table 11. Technology Tools Overview:

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p><i>Feature Rich Productivity Tools on Tablets</i></p> <ul style="list-style-type: none"> • Word • Lync • PowerPoint • Publisher • Outlook • OneNote • Access • Excel 	<p><i>Cloud based Tools</i></p> <p>Video conferencing & IM; Word, Excel, PowerPoint, OneNote and Outlook Office Web Apps for web-based viewing and editing, professional email, share files inside and outside school</p> <p>Your data belongs to you – Microsoft does not scan emails or</p>	<p><i>Desktop Capabilities on Tablet form factors</i></p> <p>Windows supports students and teachers with desktop power using tablet form factors.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Beautiful, fast, and fluid experience that students can personalize with the</p>	<p><i>Education, Publisher and other Education Apps</i></p> <p>Apps from Windows and Office Stores</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and</p>



Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
	documents for advertising purposes. Compliant with Industry Standards & leadership in transparency Secure Student and Teacher Data.	people, applications, and sites they need. Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.	science standards. Optional scientific tools from Microsoft Research IT Academy-Supporting CTE Standards

Table 12. Summary Compliant and Relevant Tools with Examples.

Summary Compliant & Relevant Tools	Envisioned Use Examples
Access 2013 Basic and Advanced Database, Reporting, Design	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine’s Learning Results requirements across disciplines/content areas and grade levels. Supports data analysis and modeling. Develop advanced data models, support analysis, capture data, develop reports, conduct analysis. Support computational thinking and informational management; synthesized knowledge and creativity with database functionality.
Excel 2013 Basic and Advanced High Quality Computation, Analysis, Modeling, Spreadsheet, Collaboration, Communication	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine’s Learning Results requirements. Develop and conduct fundamental and advanced data analysis; develop rich data visualizations; recognize patterns and support computational thinking with charts and real time data from websites. Support mathematics and science concepts using real world tools used by researchers and employers; supporting computational thinking activities, such as incorporating data, visualizations, and charts, support research and develop data to demonstrate evidence based & research texts. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.
IT Academy, DreamSpark, Career Forward, Kodu	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine’s Learning Results requirements. Engage computational thinking, data analysis, writing, reading, data analysis, modeling, presentations, and multi-media creation using IT Academy. Comprehensive CTE offering supporting technology readiness and certification initiatives with real world tools used by employers; e-learning & teacher resources, curriculum, & software. Students develop projects with ITA learning and take certification exams providing them with industry recognized certifications/credentials in addition to a high school diploma. Easy to



Summary Compliant & Relevant Tools	Envisioned Use Examples
	use visual programming language for K-5 students using Kodu as an alternative assessment, students develop game-based projects employing computational thinking supporting nontechnical, academic subjects- play using Xbox
Lync IM/Audio/Video Chat/Desktop Sharing/Polls/ Online Whiteboards	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements. Enables synchronous, online collaboration, sharing, desktop and document sharing, recording online meetings for video playback, presence awareness, supporting text based communication with individuals and groups; individual, group and class distance learning, interview industry experts, invite students to work on Flipped Classroom activities after school, integrates with Microsoft Office Word, PowerPoint, Excel, OneNote and Outlook.
Microsoft Math 4.0 Basic and Advanced Mathematics Graphic Calculator, step by step equation solver	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements. Step by step problem solving, develop high quality 3D and 2D graphs. Supporting computational thinking. Support formula and triangle equations, support remediation of mathematics, support computational thinking and data analysis.
Office 365 for Education Cloud-based, Secure Communication & Collaboration, Productivity, Office Web Apps	Supporting Mathematics CCSS ELA and NGSS (Science) standards, individual state requirements. Online Cloud storage, email store, IM/Audio/Video communications; Office Web Apps; interactive distance learning, research and engagement with other cultures on line, video/audio, support learning needs across academic content areas and throughout desired grade levels.
OneNote 2013 Easy to Use Flexible Digital Notebook	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements across disciplines/content areas and grade levels. Capture video notes, audio notes, handwritten notes, record performances, speaking, narration, listening activities, develop writing examples, share and co-author notes, capture digital inked notes. Review synchronized audio/video and notes.
Optional/ Additional 3 rd party applications Available at the Windows and Office Store & Side Loaded Apps	Capable of supporting multiple CCSS and individual state standards. Additionally, no cost and low cost third party applications are also available to provide optional, added support for this requirement if desired. Add applications for Windows and Office to extend and customize. Add consumer, education and third party applications supporting possibilities for existing and new instructional tasks and workflows; Internet Explorer 10 Add-in support third party website capabilities; access publisher content, develop videos with MovieMaker, manipulate digital images using Photo Gallery. Use PhotoSynth to create panoramas and 3D photo environments;



Summary Compliant & Relevant Tools	Envisioned Use Examples
	Interactive Classroom used for real time polling/interactivity with K-6 students
Outlook 2013 Definitive email, Message & Calendars	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements across disciplines/content areas and grade levels. Enables asynchronous communications. Manage email, calendars for student meetings; collaborate with teachers, students and researchers. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.
PowerPoint 2013 Basic and Advanced High Quality, Interactive, multimedia Authoring, Collaboration, Communication, Personal Tablet, In Person, On Line Presentations	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements across disciplines/content areas and grade levels. Develop audience, on line, and individual interactive multimedia texts and presentations, edit video and photos inside PowerPoint. Save to HD video, collaborate and coauthor with students, researchers, and distant experts, presentations and publishing, present findings with appropriate language, vocabulary supporting listening and language activities. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.
Publisher 2013 Basic and Advanced Content Publishing, Simplified Site Design, Creative Design	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's Learning Results requirements across disciplines/content areas and grade levels. Supporting student presentations and publishing. Supporting writing. Publisher allows students to transform text into fine typography projects for the screen or in print. Students use stylistic sets, and can use new Text Effects, Picture Effects, and even print out photos if needed using new Photo Center Printing.
Windows & IE Fluid, Fast Operating System supporting Touch, Keyboard, Mouse, with Access to sites students and teachers need.	Supporting CCSS ELA, CCSS Mathematics, NGSS, and Maine's learning Results requirements across disciplines/content areas and grade levels. Provides touch capabilities, digital ink, equation input with digital ink, optional stylus/touch tablet accessory, accessibility, speaking/narration, speech recognition, built in snipping tool, calculator. Access publisher, content developer and education related content. Add applications for Windows and Office to extend and customize. Add consumer and third party applications and supporting possibilities for existing and new instructional tasks and workflows. Internet Explorer 10 supports information management, research, website browsing, streaming, safety and security
Windows Live Movie Maker & Photo Gallery Digital image and	Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements across disciplines/content areas and grade levels. Powerful, simple digital photo editing, import, edit and share digital photos. Quick, Fast movie creation, edit clips, audio, add effects, and



Summary Compliant & Relevant Tools	Envisioned Use Examples
movie creation and editing	share movies. Support creative and instructionally related digital images and movies for use in presentations and supporting textual evidence. Visually and audibly represent abstract and concrete, concepts. Incorporate across disciplines and content areas and grade levels.
Word 2013 Fundamental & Advanced High Quality Authoring, Text Development, Word Processing, Collaboration, Communication, Reading	Supporting ELA, Mathematics and Science CCSS, Maine’s Learning Results, multiple language support. Built in translation tool, research tool, and search tools. View texts and video playback inside Word. Coauthor in real time. Open PDF files, edit and save. Edit photos inside Word. Search for Online video and photos inside Word, Receive Readability Statistics, and interactive grammatical and spelling feedback. Communicate research findings. Create literary,. creative, technical, informational, research and other texts. Document findings, conclusions, and document synthesized knowledge and concepts. Manage citations, references, and generate Works Cited and Bibliography pages. Use during presentations and publishing supporting listening, language and communications tasks. Create high quality, evolve and elaborate text; read informational and literary texts. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.

Table 13. HP/Microsoft’s Alignment with Maine’s Learning Results.

Maine’s Learning Results	HP/Microsoft Alignment
<p>A. A clear and effective communicator who:</p> <ol style="list-style-type: none"> 1. Demonstrates organized and purposeful communication in English and at least one other language; 2. Uses evidence and logic appropriately in communication; 3. Adjusts communication based on the audience; and 4. Uses a variety of modes of expression (spoken, written, and visual and performing including the use of technology to create and share the expressions); 	<p>A. HP/Microsoft propose software that supports students who are clear and effective communicators, and recommends Microsoft Office 365 for Education, Windows, and Internet Explorer as the primary platforms to support these goals. Microsoft Office contains productivity and communication applications and capabilities to support stated requirements.</p>
<p>B. A self-directed and lifelong learner who:</p> <ol style="list-style-type: none"> 1. Recognizes the need for information 	<p>B. HP/Microsoft understand and propose software that supports students who self-directed and lifelong learners, and recommends Microsoft</p>



Maine's Learning Results	HP/Microsoft Alignment
<p>and locates and evaluates resources;</p> <ol style="list-style-type: none"> 2. Applies knowledge to set goals and make informed decisions; 3. Applies knowledge in new contexts; 4. Demonstrates initiative and independence; 5. Demonstrates flexibility including the ability to learn, unlearn, and relearn; 6. Demonstrates reliability and concern for quality; and 7. Uses interpersonal skills to learn and work with individuals from diverse backgrounds; 	<p>Office 365 for Education, Microsoft Office, Windows, Internet Explorer as the primary platforms to support these goals. Microsoft Office contains productivity and communication applications and capabilities to support stated requirements and also supports scheduling and calendars. Microsoft Office and OneNote provide an excellent video and textual journaling platform for reflective activities that support these standards. Outlook supports calendaring which can provide help as students build reliability and communication skills across diverse backgrounds.</p>
<p>C. A creative and practical problem solver who:</p> <ol style="list-style-type: none"> 1. Observes and evaluates situations to define problems; 2. Frames questions, makes predictions, and designs data/information collection and analysis strategies; 3. Identifies patterns, trends, and relationships that apply to solutions; 4. Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response; 5. Sees opportunities, finds resources, and seeks results; 6. Uses information and technology to solve problems; and 7. Perseveres in challenging situations; 	<p>C. HP/Microsoft understand and propose software that supports students who are creative and practical problem solvers, and recommends Microsoft Office 365 for Education and Windows as the primary platforms to support these goals. Microsoft Office contains productivity and communication applications and capabilities to support stated requirements and also supports scheduling and calendars. Microsoft Office and OneNote in addition to Outlook support these goals. Additionally Excel and Access can support pattern recognition trends identification through stunning data visualizations and reporting. Excel also contains visualization tools which provide vivid data representation. Both Windows and Office families have online and off line help to assist students should they need help with technology, so they can persevere if challenged.</p>
<p>D. A responsible and involved citizen who:</p> <ol style="list-style-type: none"> 1. Participates positively in the community and designs creative solutions to meet human needs and wants; 2. Accepts responsibility for personal decisions and actions; 3. Demonstrates ethical behavior and the 	<p>D. HP/Microsoft understand and propose software that supports students who A responsible and involved citizens, and recommends Microsoft Office 365 for Education and Windows (publisher applications) and Internet Explorer (student web research). Microsoft Office Word, PowerPoint and communications tools support student engagement with cultures and help students</p>



Maine’s Learning Results	HP/Microsoft Alignment
<p>moral courage to sustain it;</p> <p>4. Understands and respects diversity;</p> <p>5. Displays global awareness and economic and civic literacy; and</p> <p>6. Demonstrates awareness of personal and community health and wellness;</p>	<p>become aware of larger social, economic, and global issues. Microsoft Word has citation management, and can efficiently and quickly compile a Works Cited and Bibliography page in support of responsible academic behavior.</p>
<p>E. An integrative and informed thinker who:</p> <p>1. Gains and applies knowledge across disciplines and learning contexts and to real life situations with and without technology;</p> <p>2. Evaluates and synthesizes information from multiple sources;</p> <p>3. Applies ideas across disciplines; and</p> <p>4. Applies systems thinking to understand the interaction and influence of related</p>	<p>E. HP/Microsoft understand and propose software that supports students are an integrative and informed thinkers, and recommends Microsoft Office 365 for Education, Windows and Internet Explorer. Word, Excel, Access and Publisher allow students to evaluate and synthesize information from multiple sources.</p> <p>OneNote also is emphasized as it can assemble a portable and accessible collection of learning and work products that allow students to draw upon and synthesize prior experiences from multiple sources and coauthor shared research and notes in real time and also access work off line.</p>

6.6.3.1.1. *Career and Education Development*

Career and education development helps all students gain the knowledge, skills, and behaviors to interact with others, set goals, and make decisions related to career, college, and citizenship. These are the skills and knowledge that underlie the *Common Core State Standards* and all content areas and are also known as “College and Career Readiness”. Bidders should focus on tools and functionalities that assist students to create and update personal profiles and interest inventories, do career research, make college and career decisions, and set goals and solve problems.

Response:

HP/Microsoft propose a co-developed a compliant tool: CareerForward is an online course that hopes to educate millions of students about globalization, career planning and entrepreneurship. Students will experience online learning with the program, understand the crucial importance of education and their future, and learn how to take charge of their future.

It is important to understand that CareerForward course is a self-contained online learning course that may be used in companion with a variety of online career planning tools to provide students with the opportunity to assess their career interests, explore career options and create an educational development plan. It may also be used alone or in combination with existing resources, if desired.



Additionally, CareerForward was developed by MVU® through substantial partnership support from both Microsoft Corporation and the Michigan Department of Education. It is designed to help students understand how to plan their work lives and career opportunities amid the implications of the global economy. This award-winning online course is a powerful way to help students wrestle with some of the provocative questions about their future. Moreover, CareerForward introduces students to globalization and career planning, and highlights how students can be more entrepreneurial as they look to the future.

As a result of major investments by Microsoft’s Partners in Learning program and MVU, this innovative course is now available to all secondary students at no fee. Professional development and training plans related to CareerForward are made available at no fee for state-funded educational institutions. The CareerForward course uses personal reflection and activities to provide each student with an independent exploration of the possibilities of their future and the creation of an Educational Development Plan (EDP).

Table 14. CareerForward

CareerForward	
Prerequisites:	None
Course Style:	Blended, teacher facilitated; 4 to 6 weeks in length; 20 hour-long online sessions
Price:	No cost
Availability:	Now
Technology Requirements:	The <i>CareerForward</i> course was designed to deliver high-quality multimedia content efficiently to students using Adobe Flash®, which is now installed on over 95% of personal computers with access to the Internet. Due to imbedded audio files, students and teachers need a multimedia computer with headphones, and access to <i>MVU</i> servers, or your school's local installation of <i>CareerForward</i> . The most recent version of Internet Explorer, Firefox or Safari is recommended. Flash must be installed to access the multimedia components and Adobe Reader® is needed to access imbedded documents.

6.6.3.1.2. *Career and Technical Education*

The Career and Technical Education (CTE) centers provide over 60 programs of study, many of which require specialized equipment and tools that are beyond the scope of this RFP. For more information about the programs offered in Maine common CTE centers, see:

<http://www.maine.gov/education/it/>

Bidders must describe how its solution will support effective teaching and learning in the CTE centers in Maine in general. If specific functions and tools included in the solution have specific application for a program of study offered in Maine CTE centers, the Bidder should describe those specific uses within the context of that program of study.



Response:

The Microsoft IT Academy Program is a college- and career-ready education program available to all accredited academic institutions, designed to provide students with the 21st century technology skills necessary to acquire certification and be competitive in today's rapidly evolving workplace. The IT Academy Program also provides educators and staff with professional development opportunities.

This subscription-based membership offers a world-class technology curriculum with lesson plans, E-Learning, student projects, and assessments. To date, there are more than 10,000 IT Academy members in more than 160 countries. IT Academy provides support for technology programs, and can be used and adapted to support interdisciplinary or integrated technology instruction.

Resources available through the IT Academy Program give educators the opportunity to stay up-to-date on the latest Microsoft technologies and easily integrate these technologies into new or existing curricula. With these resources, educators can tailor classes to meet the needs of students of all ages and levels of experience.

The IT Academy program provides the E-Learning necessary to get students ready to become Microsoft Certified. Such a certification is Industry Recognized as it is issued by a tested and verified by a third party, Certiport, who specializes in Microsoft and other technology testing and issues a credential which is recognized by employers globally. Students are able to walk across the graduation stage with not only a high school diploma, but potential multiple certifications that get them college and career ready.

Program Features

IT Academy offers the following:

- The latest Microsoft software for labs, classrooms, and PCs used by students.
- Access to a wide range of Microsoft E-Learning courses and the Instructor Learning Management System (LMS) to help track and monitor student progress.
- Discounts on official courseware that is available to academic institutions only.
- E-Reference Libraries that offer instant access to over 127 Microsoft Press books online.
- TechNet subscriptions, which provide a wealth of resources for educators seeking to expand their professional development and students mastering IT professional concepts and skills.

Microsoft currently has over ten statewide IT Academy agreements where all students in high school are able to take advantage of the program benefits. Microsoft works with states to ensure successful teacher training and deployment. Microsoft proposes tools to support CTE teaching and learning activities, which are likely used by the students' future employers. These real world tools offer not meaningful academic experiences, but also get students ready to use the tools employers to run diverse businesses such as those used in global commerce, industry, and manufacturing, scientific, technology, research, and biomedical corporations, as examples.



Table 15. Features of Compliant Microsoft Academic Platform Tools

Compliant Microsoft Academic Platform Tools	Feature Summary & Examples of Use
CareerForward	Developed by Michigan Virtual University, Microsoft Corporation, and the Michigan Department of Education, this award winning online experience allows students to develop individual career plans, connect education with college and career goals, and engages students with real world situations;
DreamSpark for Students	Students develop applications, stage servers and further technical interests with no cost software downloaded for home use. Tools include development tools, Kodu, robotics. Please see www.dreamspark.com for the latest program information.
Excel	Provides easy and advanced data analysis and very rich data visualization of complex data; functions and capabilities used by employers; real time data connections to websites containing tables; connect to other cloud and local data sources. Coauthor workbooks in real time; support for diverse file formats;
IE & Windows	IE's fast, fluid web browsing, privacy; Windows delivers power of a desktop with touch, accessibility, security, research, narration, Math input panel; calculator; handwriting, students can write papers and control device using speech recognition, handwriting input; digital ink support; device can be controlled using touch, speech, handwriting, mouse and keyboard controls
IT Academy	Students engage in e-learning and software to ready themselves to receive a Microsoft Certification-a Global, Industry Recognized Certification; resources, curriculum; professional development for teachers
Microsoft Office	Microsoft's Integrated productivity tools (Word, Excel etc. integrated with Cloud, IM, social media, supports wide range of diverse file formats, inspect documents for accessibility) providing remarkable powerful and easy to use, advanced functionality on tablets. High quality content development and the standard for feature rich, flexible, efficient technologies that can support transformative education tasks and workflows. Edit digital images, add video, represent complex ideas and reading strategies using SmartArt; insert symbols, graphics, charts, images, video and other content.



6.6.3.1.3. *English Language Arts*

Maine has adopted the Common Core State Standards for English Language Arts (**Section 6.6.2.1 Common Core State Standards for English Language Arts**).

Response:

Please reference section 6.6.2.1 for our approach to Common Core State Standard for English Language Arts.

6.6.3.1.4. *Health and Physical Education*

Maine updated the Learning Results for Health and Physical Education in 2007. The updates included a focus on leveraging the learning goals embedded in the standards “to enhance health”. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and the learning of the outcomes described by the Learning Results for Health and Physical Education.

Response:

Microsoft’s proposed platform supports students and teachers and facilitates education needs and The Common Core Standards, Maine’s State Standards and their outcomes. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. We have provided a table for reference that depicts a summary of tools, functionality, requirements. Additionally, we have provided examples of anticipated student uses with our solution. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.

Table 16. Health and Physical Education Learning Results with Examples.

Health and Physical Education Learning Results	Tasks & Activities	Supporting Tools	Examples
Health Education gives students the knowledge and skills to thrive physically, mentally, emotionally, and socially. It contributes to students’ ability to successfully practice behaviors that protect and promote health, and avoid and reduce health risks. Health education helps	Analyzing the reliability and validity of media and health resources; communicating effectively using refusal and conflict management skills; setting goals; and making healthy decisions	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Explain the physiological indicators that accompany different types of moderate to vigorous physical activities using PowerPoint ▪ Analyze website messaging and media regarding health and trends affecting healthy



Health and Physical Education Learning Results	Tasks & Activities	Supporting Tools	Examples
<p>students to be better consumers of information, manage stress, and make healthy decisions in the face of conflicting messages. It assists them in living healthier lives. Students who participate in physical education on a regular basis learn the benefits of physical activity and its contribution to a healthy lifestyle.</p>			<p>lifestyle.</p> <ul style="list-style-type: none"> ▪ Research conflict management skills that are effective in both school and as an adult using IE and presented in PowerPoint. ▪ Evaluate data on websites regarding health claims, compare to medical and FDA data and contrast findings using OneNote and PowerPoint. ▪ Chart physical fitness correlation to longevity using Excel, researched using IE.
<p>Physical education provides students with the skills and knowledge needed to support participation in a wide variety of physical activities that contribute to an active lifestyle.</p>	<p>Physical Education provides the building blocks for skill development, skill analysis, physical fitness, stress reduction, decision-making, and positive social skills. Students learn to assess and set goals, evaluate their own physical fitness, and use the knowledge to maintain or improve their current fitness level.</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Evaluate goals using OneNote to record performance data ▪ Record Physical progression through fitness challenges using OneNote and digital notes



Table 17. The Proposed Microsoft Academic Platform Supporting Education Needs

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p><i>Feature Rich Productivity Tools on Tablets</i></p> <ul style="list-style-type: none"> • Word • Lync • PowerPoint • Publisher • Outlook • OneNote • Access • Excel 	<p><i>Cloud based Tools</i></p> <p>Video conferencing & IM; Word, Excel, PowerPoint, OneNote and Outlook Office Web Apps for web-based viewing and editing, professional email, share files inside and outside school</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p> <p>Compliant with Industry Standards & leadership in transparency</p> <p>Secure Student and Teacher Data.</p>	<p><i>Desktop Capabilities on Tablet form factors</i></p> <p>Windows supports students and teachers with desktop power using tablet form factors.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Beautiful, fast, and fluid experience that students can personalize with the people, applications, and sites they need.</p> <p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.</p>	<p><i>Education, Publisher and other Education Apps</i></p> <p>Apps from Windows and Office Stores</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p> <p>Optional scientific tools from Microsoft Research</p> <p>IT Academy-Supporting CTE Standards</p>

6.6.3.1.5. *Mathematics*

Maine has adopted the Common Core State Standards for Mathematics (**Section 6.6.2.2 Common Core State Standards for Mathematics**).

Response:

Please reference section 6.6.2.2 for our approach to Common Core State Standard for Mathematics.

6.6.3.1.6. *Science and Technology*

Maine is a lead state in the development of the Next Generation Science Standards, and it anticipates that these standards will be adopted upon completion (**Section 6.6.2.3 Next Generation Science Standards**).



Response:

Please reference section 6.6.2.3 for our approach to Science Standards.

6.6.3.1.7. *Social Studies*

Social studies education involves the exploration of the social sciences and humanities, including geography, civics and government, economics, and history in order to develop responsible, informed, and engaged citizens. Effective teaching and learning in social studies rely heavily on the usage of multiple primary and secondary sources and research. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and learning of the outcomes described by Maine's *Learning Results* for Social Studies with a particular emphasis on fostering civic, global, historical, geographic, and economic literacy and the development of critical thinking and problem-solving skills; investigation, research and reading skills; oral and written communication; presentation skills; and collaboration skills.

Response:

Social studies education involves the exploration of the social sciences and humanities, including geography, civics and government, economics, and history in order to develop responsible, informed, and engaged citizens. Effective teaching and learning in social studies rely heavily on the usage of multiple primary and secondary sources and research. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support the teaching of and learning of the outcomes described by Maine's *Learning Results* for Social Studies with a particular emphasis on fostering civic, global, historical, geographic, and economic literacy and the development of critical thinking and problem-solving skills; investigation, research and reading skills; oral and written communication; presentation skills; and collaboration skills.

HP and Microsoft understand and have proposed compliant technology supporting these standards and requirements.

Microsoft's proposed platform supports students and teachers and facilitates education needs and The Common Core Standards, individual state standards and their outcomes. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. We have provided a table for reference that depicts a summary of tools, functionality, requirements. Additionally, we have provided examples of anticipated student uses with our solution. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.



Table 18. Social Studies Learning Results.

Social Studies Learning Results	Tasks & Activities	Alignment/Supporting Tools
Applications of Social Studies Processes, Knowledge, and Skills	<p>Researching and Developing Positions on Current Social Studies Issues</p> <p>Making Decisions Using Social Studies Knowledge and Skills</p> <p>Taking Action Using Social Studies Knowledge and Skills</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote
Civics and Government	<p>Knowledge, Concepts, Themes, and Patterns of Civics/Government</p> <p>Rights, Duties, Responsibilities, and Citizen Participation in Government</p> <p>Individual, Cultural, International, and Global Connections in Civics and Government</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote
Economics	<p>Economic Knowledge, Concepts, Themes, and Patterns</p> <p>Individual, Cultural, International, and Global Connections in Economics</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote



Social Studies Learning Results	Tasks & Activities	Alignment/Supporting Tools
Geography	Geographic Knowledge, Concepts, Themes, and Patterns Individual, Cultural, International, and Global Connections in Geography	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote
History	Historical Knowledge, Concepts, Themes, and Patterns Individual, Cultural, International, and Global Connections in History	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ Excel ▪ PowerPoint ▪ OneNote

6.6.3.1.8. *Visual and Performing Arts*

The Visual and Performing Arts encompasses many different forms of artistic expression, and students and teachers need to be able to both create, edit/manipulate, capture, and view these different forms of artistic expression. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning including:

- The capacity to capture live performance for assessment (both self-assessment and assessment by others) and as an artifact of the performance itself -- which may be later used for any number of activities -- assessment, sharing, archiving, remixing into new expressions, etc.

Response:

HP/Microsoft’s proposed platform supports students and teachers and facilitates education needs and The Common Core Standards, Maine’s Individual State Standards and outcomes. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. We have provided a table for reference in section 6.6.1.1 that depicts a summary of tools, functionality, requirements. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.



Windows can be used to capture and playback video with applications; Audio/Video notes are available in OneNote 2013. Capture video recordings using Lync; OneNote has the capacity to capture live performances for assessment and can be stored on the tablet or using Office 365 for Education in the Cloud. Audio and video recordings that created with OneNote are directly linked to any notes taken while the recording is made. This lets students and teachers search and find specific notes that are associated with a particular part of a recording Video and Audio. Windows Live Movie Maker and Photo Gallery allow students to express creativity and develop movies and manipulate digital images and add audio mixes. Content can be shared or used later for other education tasks.

- The capacity to create and manipulate audio, video, and visual media as a mode of creativity and expression.

Response:

Windows Live Photo Gallery and Movie Maker are no cost options that allow creation of audio, video, digital photos for a variety of creative expression. Edit the soundtrack and add a theme. Enhance the movie with audio and a visual theme. Movie Maker adds transitions and effects automatically which can save instructional time. Movies may be shared online.

Additionally, no cost and low cost third party applications are also available to provide optional, added support for this requirement if desired.

Publisher and Office tools allow students and teachers to apply their creativity and expression using audio, video and digital pictures with built in tools.

- The capacity to view/hear artistic work for the purposes of analysis, comparison, evaluation, etc.

Response:

Windows has applications to capture and playback recorded audio and video to view/hear artistic work for the purposes of analysis, comparison, and evaluation. Office also has OneNote, which has the capacity to capture and play back live performances, group activities, and view/hear artistic work for analysis, comparison, evaluation or critical assessment. Additionally, students are able to view and hear the playback of the artistic work for analysis, comparison, and evaluation.

As described above, audio and video recordings created with OneNote are directly linked to any notes taken while the recording is made. Audio only or Audio/Video notes are available in OneNote 2013. Students may take notes using keyboard and import screen clippings from websites as well.

6.6.3.1.9. *World Languages*

Maine has a goal to graduate all students proficient in a world language. This includes the capacity to communicate both orally and in writing. While the Provider is not required to provide educational content, Bidders must describe the tools and functionalities included in the solution that will support teaching and learning of a world language.



This includes tools and functionalities that support both productive (speaking, writing, showing) and receptive (listening, reading, and viewing) modes of communication. Further, the Bidder must describe how its solution's tools and functionalities support different form of communication:

- Interpersonal (direct communication between individuals)
- Interpretive (individual receives communication by listening, seeing, or reading), and
- Presentational (individual delivers communication orally, written, or some recorded form when the receiver is not expected to provide direct feedback including a one to many style of communication)

In addition, proficiency in a world language requires cultural knowledge as it relates to differences in how communication is produced and received. Bidders must describe how its solution supports the teaching and learning of cultural knowledge.

Response:

HP/Microsoft understand the requirements and standards for world languages and have proposed compliant tools that support teaching and learning of world language. Our tools support productive, receptive, and heterogeneous modes of communication supporting instruction and support the needs for world languages.

Table 19. World Languages – Summary of Functionality of Modes of Communication.

World Languages Modes of Communication	Summary of Functionality and Student Use
Productive (speaking, writing, showing)	Create Audio/Video notes in OneNote; capture handwriting in OneNote; Author texts with foreign languages set in Word; grammar and spelling checked in Word; authoring creative text projects using Publisher; Develop classroom portfolio and student portfolios using OneNote; coauthoring and presenting projects PowerPoint; Develop interactive, multimedia “eBook” using PowerPoint; develop email correspondence using Outlook; share work using shared desktop, IM, Audio and Video chat; site interactive content Internet surfaced using Internet Explorer; Coauthor, collaborate and communicate with Office 365 for Education Cloud; email correspondence using Outlook; Flip classroom support using IE, optional 3rd party applications if desired



World Languages Modes of Communication	Summary of Functionality and Student Use
Receptive (listening, reading, and viewing) modes of communication	Listen to audio class notes, view class Video Notes using OneNote Audio/Video notes and recordings; Reading and annotating world language texts; Read teacher curated text collected in OneNote; Authored text shared in OneNote; Co-author and present with PowerPoint 1:1, 1:many online and in class; Using third party content provider and publisher applications on Windows, view streamed content, browse and read web content using IE; email, message video, IM, record meetings with Office 365 for Education; Review flipped classroom content using IE and video applications, optional 3rd party applications if desired

Table 20. Worlds Languages Requirements

State of Maine World Languages Requirements	Supporting Technology
Interpersonal (direct communication between individuals)	Microsoft Office, Office 365 for Education; Windows, Internet Explorer; optional third party applications if desired.
Interpretive (individual receives communication by listening, seeing, or reading)	Microsoft Office, Office 365 for Education; Windows, Internet Explorer; optional third party applications if desired.
Presentational (individual delivers communication orally, written, or some recorded form when the receiver is not expected to provide direct feedback including a one to many style of communication)	Microsoft Office, Office 365 for Education; Windows, Internet Explorer; optional third party applications if desired.

6.6.3.2. Hawaii

While the Provider is not required to provide educational content, each Bidder must identify all of its application software and describe how it will support educational use and how it will align tools and resources with Hawaii’s adopted academic standards – the *Common Core State Standards for English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects*; the *Common Core State Standards for Mathematics*; and HCPS III for CTE, fine arts, physical education, and world languages.



Hawaii also anticipates adopting the Next Generation Science Standards, pending their completion in 2013. More information about Hawaii's adopted academic standards may be found here:

<http://standardstoolkit.k12.hi.us/index.html>

Response:

HP/Microsoft's proposed platform supports students and teachers and facilitates education needs and The Common Core Standards, individual state standards and their outcomes. Our proposed academic platform provides students and teachers with software tools that provide rich productivity and user experiences. Therefore, we have proposed Microsoft Office 365 for Education, Microsoft Office, Windows, Internet Explorer and additional, optional applications and add-ins. We have provided a table for reference in section 6.6.1.1 that depicts a summary of tools, functionality, requirements. We expect that teachers and students will evolve the anticipated technology tasking as part of the transformative process.

In alignment with the models adopted, Microsoft supports Innovative Educator workshops designed to educate trainers and teachers on instructional best practices using technology. These workshops integrate the tools proposed as part of our Microsoft Innovative Educator workshops. Microsoft also offers online courses, materials, resources and provides easy to understand help files and on-line training materials. Moreover, additional information regarding the training content for Microsoft Office can be found at

<http://office.microsoft.com/en-us/help/training-FX101782702.aspx>.

Together, HP/Microsoft's proposed tools deliver a compliant academic platform that supports Hawaii's overarching goals to foster students that are:

- **Self-directed learners:** The ability to be responsible for one's own learning
- **Community Contributors:** The understanding that it is essential for human beings to work together
- **Complex Thinkers:** The ability to be involved in complex thinking and problem solving
- **Quality Producers:** The ability to recognize and produce quality performance and quality products
- **Effective Communicators:** The ability to communicate effectively
- **Effective and Ethical Users of Technology:** The ability to use a variety of technology effectively and ethically

We have provided compliant tools supporting state specific requirements and those relating to the Common Core State Standards. We have aligned Microsoft tools in our compliant, academic platform with the Hawaii Content and Performance Standards III for CTE, Fine Arts, Physical Education, and World Languages in the following tables:



Table 21. HCPS III Career and Technical Education.

HCPS III CAREER AND TECHNICAL EDUCATION <i>Alignment Guide</i>	Aligned Tools	Examples
<p>TECHNOLOGICAL DESIGN Design, modify, and apply technology to effectively and efficiently solve problems</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Design, modify, and apply technology to effectively and efficiently solve problems by customize Ribbon to provide access to personalized, frequently used features and explain in detail ▪ Assess, in great detail, the design of an application using rubrics created by other students and evaluate rubric's effectiveness ▪ Evaluate product reviews captured in Word and annotate helpful reviews with supporting detail. ▪ Determine overall effectiveness of a product design or solution and visualize assessment in Excel based on student developed rubric
<p>CAREER PLANNING Explore and understand educational and career options in order to develop and implement personal, educational, and career goals</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Uses goal setting strategies to identify areas for improvement and collect in digital portfolio using OneNote ▪ Analyze, in great detail, career options that match personal interests, abilities, and skills using Excel ▪ Prepare for the job interview process, with completeness and accuracy using OneNote's audio and video notes for rehearsal and simulations

Table 22. HCPS III Fine Arts.

HCPS III FINE ARTS <i>Alignment Guide</i>	Aligned Tools	Examples
<p>VISUAL ARTS Understand and apply art materials, techniques, and processes in the creation of works of art and understand how the visual arts communicate a variety of ideas, feelings, and experiences</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Use Publisher to manipulate images and develop a digital advertisement incorporating principles of design ▪ Use PowerPoint to demonstrate elements of line, shape, form, texture, color, and the principles of repetition ▪ Use IE to compare and analyze artwork from various cultures that have similar cultural factors have affected works of art now and in the past
<p>MUSIC Understand and apply elements of music and understand how music communicates ideas, feelings, and experiences across cultures</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Author and elaborate critiquing a musical selection or musical performance using Word ▪ Critique music using specific criteria with audio/video and digital ink in OneNote ▪ Develop interactive “book” describing how various elements and roles of music integrate with other content areas using PowerPoint’s interactive, multimedia capabilities
<p>DRAMA AND THEATRE Understand and apply the skills of acting, design, and technical theatre and understand the role of drama in various cultures throughout history</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Evaluate how technology has impacted theatre production and present using PowerPoint’s multimedia capacity ▪ Research technical theatre innovations using IE ▪ Create a dramatization based on a story using PowerPoint interactive, multimedia capabilities.

HCPS III FINE ARTS <i>Alignment Guide</i>	Aligned Tools	Examples
<p>DANCE Understand and apply elements of dance, appreciate how dance communicates meaning, and recognize its role across cultures and throughout history</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Use a variety of dance elements to develop dance phrases and annotate as needed using OneNote's digital inking, video/audio notes ▪ Evaluate a dance using personal preferences and personal knowledge of dance composition and impact using OneNote's synchronized audio/video notes and handwriting ▪ Evaluate a dance using personal preferences and personal knowledge of dance composition and impact using PowerPoint's multimedia features.

Table 23. HCPS III Physical Education.

HCPS III PHYSICAL EDUCATION <i>Alignment Guide</i>	Aligned Tools	Examples
<p>MOVEMENT FORMS Use motor skills and movement patterns to perform a variety of physical activities</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Consistently participate in a variety of physical activities of personal interest to maintain an active lifestyle and capture video/audio notes that are included in OneNote digital portfolio ▪ Consistently use combinations of specialized movement form in a variety of activities



HCPS III PHYSICAL EDUCATION <i>Alignment Guide</i>	Aligned Tools	Examples
<p>COGNITIVE CONCEPTS Explore and understand educational and career options in order to develop and implement personal, educational, and career goals</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Identify and explain how using a variety of strategies helps to improve performance of movement skills through research using IE and document using Word ▪ Compare offensive and defensive strategies for simple and modified activities through research conducted with medical and sports medicine websites, and present using multimedia capabilities in PowerPoint and analysis visualizations in Excel ▪ Develop interactive guide demonstrating strategies
<p>ACTIVE LIFESTYLE Participate regularly in physical activity</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Word ▪ OneNote 	<ul style="list-style-type: none"> ▪ Explain how participating in physical activities leads to social and emotional benefits through Internet research and using Word



HCPS III PHYSICAL EDUCATION <i>Alignment Guide</i>	Aligned Tools	Examples
<p>PHYSICAL FITNESS Know ways to achieve and maintain a health-enhancing level of physical fitness</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office 	<ul style="list-style-type: none"> ▪ Explain the physiological indicators that accompany different types of moderate to vigorous physical activities using PowerPoint ▪ Apply knowledge of the benefits of participation in selected physical activities on the components of health related physical fitness to solve a problem and document using Word with examples supported through web site research ▪ Consistently set goals to improve personal fitness level based on various sources of information and document in OneNote

Table 24. HCPS III World Language.

HCPS III WORLD LANGUAGE <i>Alignment Guide</i>	Aligned Tools	Examples
<p>INTERPERSONAL Use target language to engage in conversations, provide and obtain information, express feelings and emotions, and exchange opinions</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Engage in conversations about likes, dislikes, and personal preferences, with ease and independence ▪ Exchange detailed information about self, other people, places, objects, activities, events, and other topics of interest using IM/Audio, Video Chat ▪ Exchange opinions and feelings about a variety of experiences and events, using simple phrases and expanded vocabulary and capture using OneNote's capture of audio/video notes



<p>HCPS III WORLD LANGUAGE <i>Alignment Guide</i></p>	<p>Aligned Tools</p>	<p>Examples</p>
<p>INTERPRETIVE Understand and interpret written and spoken language on diverse topics from diverse media</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Publisher ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Identify the main ideas and significant details of familiar oral and written materials with visual cues with shared text in Word's Read Mode. Students work in groups to color code support for main idea ▪ Exchange opinions and feelings about a variety of experiences and events, using simple phrases and expanded vocabulary by creating self-portrait brochures created in Publisher and attached to grammatically correct email, which has been proofed using language tools ▪ Ask and answer transactional questions, using simple phrases and expanded vocabulary, to provide and obtain goods, services, or information in a variety of contexts during role play exercise with flip classroom activity, using video/audio chat
<p>PRESENTATIONAL Present information, concepts, and ideas to an audience of listeners or readers on a variety of topics</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Publisher ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Use simple phrases and expanded vocabulary to make simple presentations on a variety of topics using Word and PowerPoint's Multilanguage features. Develop advertising using Publisher to demonstrate vocabulary diversity ▪ Use learned vocabulary and gestures to recite poems or stories, with ease and include in PowerPoint presentation to



HCPS III WORLD LANGUAGE <i>Alignment Guide</i>	Aligned Tools	Examples
		<p>class or online using audio/video chat to classrooms in other countries</p> <ul style="list-style-type: none"> ▪ Prepare written communication on a given theme, using simple phrases and expanded vocabulary for a variety of topics
<p>CULTURES Understand relationships among perspectives, products, and practices of target culture</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote 	<ul style="list-style-type: none"> ▪ Compare tangible and intangible products and practices of the target culture to other cultures, in great detail ▪ Give thoughtful and detailed examples of how significant cultural ideas are reflected in the practices and products of the culture being studied
<p>COMPARISONS Understand that different languages use different patterns to communicate and apply this knowledge to the target and native languages</p>	<ul style="list-style-type: none"> ▪ Windows ▪ Internet Explorer ▪ Microsoft Office 365 for Education ▪ Microsoft Office ▪ Word ▪ PowerPoint ▪ OneNote ▪ Excel 	<ul style="list-style-type: none"> ▪ Compare more complex grammatical and linguistic structures of target language with own language using SmartArt in Word. ▪ Compare basic grammatical and linguistic structures of target language with own language using Word's research and language settings. ▪ Apply tenses appropriately to express actions and state of being in the present, with accuracy recorded in student's OneNote portfolio



Table 25. The Proposed Microsoft Academic Platform Supporting Education Needs

Microsoft Office	Office 365 for Education	Windows & Internet Explorer	Additional & Optional Apps
<p>World-class, familiar tools on tablets and devices:</p> <ul style="list-style-type: none"> • Access • Word • Excel • Lync • PowerPoint • Publisher • Outlook • OneNote 	<p>Cloud-based professional email Video conferencing and IM Web-based viewing and editing using Office Web Apps Share files inside and outside school</p> <p>Secure Student and Teacher Data</p> <p>Your data belongs to you – Microsoft does not scan emails or documents for advertising purposes.</p> <p>Compliant with Industry Standards & leadership in transparency.</p>	<p>Supporting students and teachers with desktop power using tablet form factors. Beautiful, fast, and fluid experience that you can personalize with the people, applications, and sites you need.</p> <p>Accessibility, Security and Privacy Features.</p> <p>Internet Explorer starts and loads sites almost instantly. It brings a fluid responsiveness to the web that feels totally new. The web is a swipe, tap, or click away.</p>	<p>IT Academy-Supporting CTE Standards</p> <p>Education, Publisher and Content Provider Apps (such as those from Windows Store)</p> <p>Office Store and Apps</p> <p>Movie Maker & Photo Gallery: Video creation, editing and digital photo editing</p> <p>Microsoft Math 4.0-step by step graphing calculator supporting mathematics and science standards.</p> <p>Optional scientific tools from Microsoft Research.</p>

Table 26. Summary of Compliant and Relevant Tools.

Summary of Compliant & Relevant Tools	Envisioned Use Examples
<p>Access 2013 Basic and Advanced Database, Reporting, Design</p>	<p>Supporting Science, Technology and Mathematics CCSS, individual state requirements, Develop advanced data models, support analysis, capture data, develop reports, conduct analysis, Support computational thinking and synthesized knowledge and creativity with database functionality</p>



<p>Excel 2013 Basic and Advanced High Quality Computation, Analysis, Modeling, Spreadsheet, Collaboration, Communication</p>	<p>Supporting ELA CCSS, Science and Mathematics CCSS, individual state requirements, Develop and conduct fundamental and advanced data analysis; develop rich data visualizations; recognize patterns and support computational thinking with charts and real time data from websites. Support mathematics and science concepts using real world tools used by researchers and employers; supporting computational thinking activities, such as incorporating data, visualizations, and charts, support research and develop data to demonstrate evidence based & research texts; Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.</p>
<p>IT Academy, DreamSpark, Career Forward</p>	<p>Comprehensive CTE offering supporting technology readiness and certification initiatives with real world tools used by employers; e-learning and teacher resources, curriculum, and software</p>
<p>Lync IM/Audio/Video Chat/Desktop Sharing/Polls/ Online Whiteboards</p>	<p>Supports online collaboration, desktop and document sharing, recording online meetings for video playback, presence awareness, group and class distance learning, interview industry experts, invite students to work on Flipped Classroom activities after school, integrates with Microsoft Office Word, PowerPoint, Excel, OneNote and Outlook.</p>
<p>Microsoft Math 4.0 Basic and Advanced Mathematics Graphic Calculator, step by step equation solver</p>	<p>Mathematics CCSS, Science Standards, individual state requirements, Step-by-step problem solving, develop high quality 3D and 2D graphs, Support formula and triangle equations, support remediation of mathematics, support computational thinking and data analysis.</p>
<p>Office 365 for Education Cloud-based, Secure Communication & Collaboration, Productivity, Office Web Apps</p>	<p>Supporting ELA CCSS, Mathematics CCSS, individual state requirements, Online Cloud storage, email store, IM/Audio/Video communications; interactive distance learning, research and engagement with other cultures on line, video/audio, support learning needs across academic content areas and throughout desired grade levels.</p>
<p>OneNote 2013 Easy to Use Flexible Digital Notebook</p>	<p>Supporting ELA CCSS, Mathematics CCSS, individual state requirements, Capture video notes, audio notes, handwritten notes, record performances, speaking, narration, listening activities, develop writing examples, share and coauthor notes, capture digital inked notes, Review synchronized audio/video and notes.</p>



<p>Optional/ Additional 3rd party applications Available at the Windows and Office Store & Side Loaded Apps</p>	<p>Supporting ELA CCSS, Mathematics CCSS, individual state requirements, Additionally, no cost and low cost third party applications are also available to provide optional, added support for this requirement if desired. Add applications for Windows and Office to extend and customize; Add consumer, education and third party applications supporting possibilities for existing and new instructional tasks and workflows; IE Add-ons support third party website capabilities</p>
<p>Outlook 2013 Definitive email, Message & Calendars</p>	<p>Supporting ELA CCSS, Mathematics CCSS, individual state requirements, Manage email, calendars for student meetings; collaborate with teachers, students and researchers. Students can make edits and update content using the accompany Office Web Applications provided under Office 365 for Education.</p>
<p>PowerPoint 2013 Basic and Advanced High Quality, Interactive, multimedia Authoring, Collaboration, Communication, Personal Tablet, In Person, On Line Presentations</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, across disciplines, content areas and grade levels and in support of ELA CCSS, Science and Mathematics CCSS, individual state requirements, Develop audience, online, and individual interactive multimedia texts and presentations, edit video and photos inside PowerPoint, Save to HD video, collaborate and co-author with students, researchers, and distant experts , presentations and publishing, present findings with appropriate language, vocabulary supporting listening and language activities. Students can make edits and update content using the accompany Office Web Applications provided under Office 365 for Education.</p>
<p>Publisher 2013 Basic and Advanced Content Publishing, Simplified Site Design, Creative Design</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, and individual state requirements, Publisher allows students to transform text into fine typography projects for the screen or in print. Students use stylistic sets, and can use new Text Effects, Picture Effects, and even print out photos if needed using new Photo Center Printing.</p>
<p>Windows & IE Fluid, Fast Operating System supporting Touch, Keyboard, Mouse, with Access to sites students and teachers need.</p>	<p>Supporting CCSS ELA, CCSS Mathematics, NGSS, individual state education standards and requirements, accessibility, narration, speech recognition, built in snipping tool, calculator, equation input, handwriting input, screen keyboard use; Access publisher, content developer and education related content; Add applications for Windows and Office to extend and customize; Add consumer and third party applications and supporting possibilities for existing and new instructional tasks and workflows; Supporting IE website browsing, rich content research with websites, streaming, safety and security</p>



<p>Windows Live Movie Maker & Photo Gallery Digital image and movie creation and editing</p>	<p>Powerful, simple digital photo editing, import, edit and share digital photos. Quick, Fast movie creation, edit clips, audio, add effects, and share movies. Support creative and instructionally related digital images and movies for use in presentations and supporting textual evidence. Visually and audibly represent abstract and concrete, concepts; Incorporate across disciplines and content areas and grade levels.</p>
<p>Word 2013 Fundamental & Advanced High Quality Authoring, Text Development, Word Processing, Collaboration, Communication, Reading</p>	<p>Supporting ELA CCSS, Mathematics and Science CCSS, individual state requirements, multiple language support; built in translation tool, research tool, search tools, View texts and video playback inside Word. Co-author in real time; Open PDF files, edit and save. Edit photos inside Word, Search for Online video and photos inside Word, Receive Readability Statistics, and interactive grammatical and spelling feedback. Communicate research findings; Create literary, creative, technical, informational, research and other texts; Document findings, conclusions, and document synthesized knowledge and concepts; Manage citations, references, and generate Works Cited and Bibliography pages. Use during presentations and publishing supporting listening, language and communications tasks; Create high quality, evolve and elaborate text; read informational and literary texts. Students can make edits and update content using the accompany Office Web Apps provided under Office 365 for Education.</p>

6.6.4. Network and Device Connectivity

The device must be able to connect to network file servers using common networking protocols (e.g., smb, afp, nfs, ftp, etc.). The device must be able to utilize common peripherals for input and output (e.g., networked and stand-alone printers, digital cameras, digital video cameras, scanners, etc).

Response:

The HP ProBook 4440s with Windows Professional will be able to connect to network file servers using smb, nfs and ftp. This connectivity is possible because Windows Professional supports these protocols natively. The HP ProBook 4440s will also be able to utilize common peripherals for input and output such as network and stand-alone printers, digital cameras, digital video cameras, scanners, etc. through USB or network connectivity options offered by the peripheral.

6.6.5. Distance and Online Learning

The portable computing device must be able support common learning management systems (i.e. Moodle, Blackboard, Studywiz, etc.) to facilitate distance and online learning. In addition, the portable computing device must be compatible with common online content providers (i.e. oercommons.org, cnx.org, khanacademy.org, ck12.org, iTunes U, etc.).



Response:

HP's proposed solution fully complies with this requirement. Devices capable of running Microsoft Windows Professional are able to support common learning management systems and common online content providers, including those listed within the requirements above.

6.6.6. Student Information Systems

The portable computing device must be compatible with common student information systems in use in schools and states.

Response:

HP's proposed solution fully complies with this requirement. Devices capable of running Microsoft Windows Professional are compatible with common student information systems such as PowerSchool, Infinite Campus, Skyward, and Milepost and more.

6.6.6.1. Maine Student Information Systems (SIS)

The Maine Department of Education utilizes Infinite Campus State Edition for management reporting purposes. In addition, Maine schools primarily utilize Infinite Campus and PowerSchool for local management and reporting purposes. Bidder's solutions must be compatible with Infinite Campus and PowerSchool systems, and Bidder's will be required to work with the Department to maintain compatibility as both the solution and the SIS systems evolve.

Response:

HP's proposed solution fully complies with this requirement. Devices capable of running Microsoft Windows Professional have interoperability with the listed application and tools and meet or exceed the minimum system requirements of all of the listed applications.

6.6.7. Stand-alone

The portable computing device must be able to function in a stand-alone mode sufficient to enable the user to perform basic functions (e.g., writing, data analysis, multimedia, information management) without requiring network access. The Bidder must describe the differences, if any, in the function of the device when it is network-connected versus in stand-alone mode. Bidders should consider that many families do not have broadband Internet access at home.

Response:

The HP ProBook 4440s is a fully functioning personal computer. It supports the Microsoft Windows Professional operating system, and is configured with dedicated components including system memory, hard drive, and wired and wireless network connections. The HP 4440s can be used in a stand-alone mode to perform basic personal computing functions such as writing, file saving, and accessing multimedia without network access. When connected to the network, the 4440s will be able to access files and software located on a network share or locally on the portable computing device. When not connected to the network, the HP 4440s will only be able to access files and software stored locally on the portable computing device, but can re-synchronize to file shares or backups once they reconnect to the network.



The HP ProBook 4440s as proposed, includes Microsoft Office -365 A2 and Microsoft Education Desktop SKU - Part Number SKU 2UJ-00001 which allows for full off-line Microsoft Office functionality.

The Microsoft Education Desktop SKU - Part Number SKU 2UJ-00001 allows full offline capability and includes Microsoft Office Professional 2013:

- Word
- PowerPoint
- Excel
- Outlook with Business Contact Manager
- Lync
- OneNote
- Publisher
- Access
- InfoPath
- SharePoint Workspace

6.6.8. Cloud Requirements

The Bidder must include a recommended minimum school Internet bandwidth capacity for its solution. Recommended bandwidth should be expressed in megabits per second for each 100 users per school. This recommendation should assume that the entire school is participating in the program, and therefore all students may be leveraging the portable digital device. The Department recognizes that some general activities not specific to the solution can drive significant bandwidth usage, and recognizes that schools will need to install bandwidth necessary to support the density of users associated with a 1:1 program. However, if the Bidder's solution relies on cloud-based tools and functionality, the Department needs to understand what impact, if any, the introduction of the solution will have on school bandwidth needs. Bidders should design a solution that respects the availability of bandwidth in schools.

Response:

HP recognizes the recommended minimum school Internet bandwidth recommendations of the State Education Technology Directors' Association (SETDA) *Broadband Imperative* report (<http://setda.org/web/guest/broadbandimperative>). SETDA recommends the following:

Table 27. Broadband Access for Teaching, Learning and School Operations.

Broadband Access for Teaching, Learning and School Operations	2014-15 School Year Target	2017-18 School Year Target
An external Internet connection to the Internet service provider (ISP)	At least 100 Mbps per 1,000 students/staff	At least 1 Gbps per 1,000 students/staff
Internal wide area network (WAN) connections from the district to each school and among schools within the	At least 1 Gbps per 1,000 students/staff	At least 10 Gbps per 1,000 students/staff



Broadband Access for Teaching, Learning and School Operations	2014-15 School Year Target	2017-18 School Year Target
district		

(Excerpted from page 2 of the SETDA's Executive Summary, retrieved 1/2/13. Used with permission.)

The HP solution does rely on several cloud-based applications in order to deliver professional development, provide content for learning, device management and to provide storage space for students and teachers to store their content. We believe that SETDA's recommendations as stated above are more than sufficient to meet the needs for students and teachers participating in 1:1 programs supported through the MLTI contract.

6.6.8.1. Maine School and Library Network

For more information about available bandwidth in Maine schools, please see **Appendix E, State Profiles - Maine.**

Response:

HP has read and reviewed the information provided in the RFP, Appendix E, State Profiles – Maine.

6.6.9. Software Updating

The Provider should describe how its solution will provide the capacity to update the portable computing devices. This includes incremental and major updates that may be required after the portable computing devices have been issued to students. Increasingly, schools are issuing the portable computing devices to students, and the students are retaining the device even during long vacations including summer break. The Provider should describe whether or not it will be necessary for schools to collect the portable computing devices to apply major updates efficiently. The portable computing devices will be able to be updated from a central location via a "push" method or "over the air" method rather than each device separately and manually for incremental updates.

Ideally, major updates should not require users to perform a complete back and restore of user data and configurations in order to apply the update. While the Department recognizes that performing a backup before a major update is "best practice", it is desirable that the solution allow for "upgrades" whenever possible as opposed to "reformat and reinstall".

Response:

All machines deployed within this program will be managed and monitored using LabTech's remote monitoring and management solution. HP and its subcontractor, Dynamic Edge, will be responsible for deploying, supporting and maintaining this solution throughout the life of this contract. This solution continually monitors all managed machines and checks for relevant software updates which need to be applied to maintain security and reliability of the portable computing devices.



HP's design for this solution relies on participating State and district administration as well as and HP administrators who will be responsible for approving all patches and virus signature updates for deployment, and for configuring the bandwidth usage, download, installation scheduling and system reboot policies. OS and application Service Packs will be treated as major application deployments and as such will be planned in collaboration with the Technology Administrators.

No end user or local Technology Administrator intervention is required to enable any of this process for either minor or major updates. The management agent on each portable computing device will communicate in the background with the cloud-based service to identify updates for the local machine, download those updates (and any pre-requisite updates), apply them to the machine and then handle any reboot requirements. It will not be necessary for the district to collect portable computing devices to apply major updates as those are processed "over the air", but we do believe that it is best practice for the school or district to re-image the devices from the updated, base image each summer by using HP-provided USB drives.

To minimize Internet connectivity bandwidth utilization by this process, HP will work with the local education departments to provide options for USB and temporary local cache devices for large deployments.

6.6.10. Software Restore

The portable computing device will be able to be restored easily and in a reasonable timeframe. The Provider should take into account the range of sizes of schools and account for reasonable restore processes for both large and small school deployments. The Provider is responsible for providing any associated software, hardware, or networking equipment necessary to restore the device to a base state. In addition, the restore process should allow for easy additions to the base software load as schools may desire the additional software titles or adjustments to basic settings. Ideally, a device should be able to be restored, including local additions, easily so that upon completion of the process, no further manual installations or configuration changes are necessary.

Response:

As described earlier, local schools will be able to re-image any machine using either Network Boot Deployment or USB Drive Deployment (based on both the school's capability and preference). The sequence of steps required for such restoration is nearly identical simplifying the training for the local Technology Administrators.

Restoration of the device to the base state shall be accomplished by the local district technology resource using local media (provided by HP) and following a short list of steps provided by HP to the district IT resource. The LabTech solution will then re-apply the District OS image complete with all district customizations to the target machine. The time to complete this process is largely dependent on the size of the OS image, the number of applications installed over the OS and the speed of the network and portable computing device hard drive. A typical time to completion for a single portable computing device is expected to be around 30-45 minutes.

In a typical school scenario, USB drives will be provided containing the Master OS Image and District customizations. The USB drive is plugged into the target machine which is then booted



from that drive.

The LabTech solution will then re-apply the Base OS image and after promoting for the school location, will apply all relevant district customizations to the target machine. The time to complete this process is largely dependent on the size of the OS image, the number of applications installed over the OS and the speed of the USB and portable computing device hard drives. A typical time to completion for a single portable computing device is expected to be around 30-45 minutes, though this is also dependent on the speed of the USB drive (USB 3.0 will be used if supported by the portable computing device hardware configuration).

6.6.11. Operating System and Software

The Provider must include current and upgraded versions of the core operating system software and all other software included as a part of the Provider's solution through the term of the agreement in order to maintain usability with upgrades and enhancements to surrounding systems and peripherals. The Bidder must provide a device which will not require hardware upgrades in order to reasonably keep up with possible future software upgrades (e.g., initial delivery should include adequate memory, storage, and processing power for typical upgrade cycles given the term of the agreement) or the Provider should include a description of how it plans to upgrade the equipment through the life of the project to maintain adequate functionality and minimize disruption and the availability of the solution.

Response:

During the lifetime of the project it is anticipated that occasional upgrades to new versions of the Windows Operating System will be required. Such upgrades will be carried out and built into the annual base image during the annual review before the start of the next academic year. HP and its subcontractors will consult first with representatives from all Districts to identify the configuration requirements for the new Base OS image. Next each District will be consulted individually to identify any specific OS configuration needs for that District.

New master images would then be built and tested on representative hardware. All compatibility and operational tests would be completed and any fixes incorporated into the image, re-tested and documented.

Pilot deployments would then be completed using sample hardware to confirm that the images deploy correctly in all deployment scenarios (including manufacturing) and that the images operate correctly and are compatible with all hardware variants and bundled applications.

Hotfixes, updates, patches and Service Packs to each version of the OS will be deployed over the air.

For devices that do not come with Windows 8 as the standard OS, HP will provide a plan to upgrade to Windows 8 as adoption of Windows 8 is determined in the marketplace, HP will work with the State to develop upgrade plans and to determine additional training requirements included as part of our offering. HP will make a commercially reasonable effort to work with the state to develop images based upon subsequent generations of Windows OS as they become available and it is deemed appropriate and technically feasible by the State, HP and HP's partners.



6.7. Device Options

The Department wishes to enable schools, who so desire, to enhance or complement the basic solution with additional, optional software and hardware at their own local costs. Each Bidder should describe what it can offer, separately priced, to enhance schools' effective use of the basic solution—strictly as an option for local school units to consider should the Bidder become the awarded Provider. Schools may also opt to acquire such offerings independently if they are able to obtain better pricing from other parties. The Bidder shall include only those products, models and features that it will support if configured and connected to the proposed solution.

The Bidder should specify and describe fully here the features, functions and advantages of such offerings. Provide the price quote on **Appendix B, Cost Proposal Form, Table 4** for each item, including all cost options (please use consistent item numbers in this section and on **Appendix B, Cost Proposal Form, Table 4**). Specify whether the price includes shipping, installation and related charges; if not, specify what additional charges would be added. Ensure that the total cost is represented.

The Bidder is to provide the manufacturer name, model, short description, warranty, unit and volume prices. Also, include any additional cables, connectors and adapters required. If any software upgrades or additional features are required, so state. These devices, cables, connectors and adapters must be available through the Bidder's corporation for delivery to the individual sites. The value of such offerings will not be considered in the evaluation score of the proposal.

Response:

HP's proposed solution complies with this requirement. Upon the request of the State Department of Education, HP shall provide participating MLTI districts and schools a webpage from which participating MLTI districts and schools may purchase additional optional hardware and software solutions that complement the overall MLTI program offering. These solutions shall be separately priced to enhance schools' effective use of the basic solution; HP shall provide this information strictly as an option for participating MLTI schools and districts to consider. MLTI schools and districts may opt to acquire such offerings independently if they are able to obtain better pricing from other parties. HP shall include only those products, models and features that shall be supported if configured and connected to the proposed solution in a manner specified by HP's proposed overall MLTI solution. These optional items, if selected, will not be part of any Lease Schedule described herein.

HP has a wide range of additional software and hardware offerings that the State may wish to consider as device options to complement the existing system proposal. HP has included a listing of optional items in Appendix B, Cost Proposal Form, Table 4.

HP will work with the State to identify a core list of hardware and software offerings that would provide the best set of additional, optional products, and which would significantly enhance the use of the basic system proposed. These additional offerings could include items such as extra memory, alternate input/output devices (keyboards and mice), additional power solutions (adapters and batteries), and other education-oriented products.



6.7.1. Optional Software

The vendor may provide students and teachers access to software and applications such as educational content, web-page development software, student information, assessment tools, data management, etc. Specify such offerings here.

Response:

HP has a broad range of software offerings that the State may wish to consider as a complement to the MLTI program. HP will work with the State to identify a core set of software offerings that would provide the ideal blend of core functionality along with effective teaching and learning opportunities. Specific offerings, part numbers, descriptions and unit cost information can be provided after the core set of software offerings is defined.

Reviewing Maine’s Legacy Software

A first step to offering optional software is based on the list the State provided of existing applications used in the legacy MLTI program. The chart below identifies the category of software, whether or not the product is available in Windows format and, if not, what might be appropriate optional software to provide similar or more enhanced functionality.

Table 28. Legacy Software.

Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
Business	JA Titan		Yes		http://titan.ja.org web based simulation games
Music	iTunes	10.5.3	Yes		
Music	Garageband	6.0.4	No	Adobe Audition, Cakewalk Sonar X2 or Cakewalk Music Creator 6.0 (low cost)	Music editing and recording software
Productivity	Address Book	5.0.3	No	Microsoft Outlook	Contact database, now called Contacts in Mountain Lion
Productivity	iCal	4.0.4	No	Microsoft Outlook	
Productivity	iChat	5.0.3	No	Microsoft Lync, Yahoo IM, Google Chat	



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
Productivity	Keynote	5.1.1	No	Microsoft PowerPoint	
Productivity	Mail	4.5	No	Microsoft Outlook or web-based email	
Productivity	OmniFocus	1.9.4	No	Microsoft Outlook, or Microsoft Project	
Productivity	OmniOutliner	3.10.3	No	Microsoft Excel	
Productivity	Pages	4.1	No	Microsoft Word	
Productivity	TextEdit	1.6	No	Microsoft Word	Simple text editing, Microsoft Word provides superior experience
Productivity	Write Room	2.5.2	No	Microsoft Word	Writeroom provides full screen writing environment. Just use Microsoft Word in full screen mode for same result
Reference	Encyclopedia Britannica	10	Yes		
Reference	Overdrive Media Console	1.1	Yes		www.overdrive.com
Reference	OmniDictionary	2.0.4	No	www.dictionary.com	
Web sites offer same functionality					
Simulation	Wolfquest		Yes		www.wolfquest.org
STEM	Data Studio	2012	Yes		PASCO stopped producing DataStudio software and migrated to



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
					PASCO Capstone, all their programs run in Windows environment (www.pasco.com/dastudio)
STEM	Geogebra	4.0.21	Yes		
STEM	Google Earth	6.2.0.590.5	Yes		
STEM	Grapher	2.1	Yes		Advanced Grapher 2.1 for Windows from Alentum Software
STEM	Logger Pro	3.8.4.2	Yes		Data recording tool from Venier
STEM	Maine Explorer	1.0.3	Yes		www.simbio.com
STEM	SketchUp Pro	8.0.11751	Yes		www.sketchup.com
STEM	Geniquest		Unknown		Created by Center for Genome Dynamics specifically for Maine's old laptop program
STEM	Calculator	4.5.3	No	Graphing Calculator 3D by Runitor	free 3D software, provides common calculator GUI interface, no training needed
STEM	Omni GraphSketcher	1.2.1	No	Graphing Calculator 3D by Runitor	Free 3D software, provides common calculator GUI interface, no training needed
Utility	Cyberduck	4.2.1	Yes		www.cyberduck.ch instant FTP tool
Utility	Democracy	1	Yes		Now called Miro, free software
Utility	1 to 1 Back Up	3.2	Unable to find	PC Backup	Dozens of backup software titles to



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
					choose from
Utility	ClamXav	2.2.2	No	Microsoft Security Essentials	Free Virus checking software, minimal technical training needed, Microsoft is also free and provides assistance is device gets infected
Utility	DVD Player	5.4	No	Choice of many free DVD player applications	No training required
Utility	Mac OS X	10.6.8	No	Microsoft Windows 7 or 8	
Utility	Time Machine	1.1	No	PC Backup	Dozens of backup software titles to choose from
Utility	VoiceOver	3.5	No	Microsoft Narrator built into Windows	
Utility	iSync	3.1.2	N/A		iSync was removed from Mac OS X starting with version 10.7
Visual	Acrobat Reader	10.1.2	Yes		
Visual	Adobe Digital Editions	1.8.1	Yes		
Visual	Comic Life	1.54	Yes		www.comiclife.com
Visual	ProfCast	2.6.5	Yes		www.profcast.com
Visual	QuickTime Player X	10	Yes		
Visual	Scratch	1.4	Yes		http://scratch.mit.edu
Visual	Photo Booth	3.0.3	Unable to find	Spark Booth	Photo booth kiosk software www.sparkbooth.co



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
					m
Visual	Acorn	3.2	No	Adobe Photoshop Elements or Photoshop.com	Image editing software, costs \$49.99 www.flyingmeat.com/acorn
Visual	iDVD	7.1.2	No	Adobe Premiere Elements	
Visual	iMovie	9.0.4	No	Adobe Premiere Elements or freeware like EZVid	
Visual	iPhoto	9.2.1	No	Adobe Photoshop Elements or Photoshop.com	
Visual	OmniDazzle	1.1.1	No	Adobe After Effects or freeware like Easy Green Screen	screen effects (www.photoshopgreenscreen.com)
Visual	OmniGraffle	5.3.6	No	Diagramming functions found in Microsoft Word and PowerPoint	
Visual	Preview	5.0.3	No	Adobe Acrobat	
Visual	Perian	1.2.3	N/A		www.perian.org - site indicates they have ceased operations
Web	Firefox	3.6.13	Yes		
Web	iWeb	3.0.4	No	Microsoft Expression Web	
Web	OmniWeb	5.11.1	No	Microsoft	



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
				Internet Explorer, Google Chrome	
Web	Safari	5.1.3	No	Microsoft Internet Explorer, Google Chrome	
Unknown	Zon		unable to find		

To that end, we have found that a large percentage of software currently used can also be found in Windows format, while a small percentage can be replaced with fewer, more efficient choices. In the event the MLTI program wishes to maintain a similar list of applications, the optional software items the State may wish to consider are:

Table 29. Optional Software.

Category	Software Title	Description	Fee/Free
Visual	Adobe Photoshop Elements	Adobe Photoshop Elements 11 helps you edit pictures with powerful, easy-to-use options and share them via print, the web, Facebook, and more. Live in the moment knowing you can easily turn your everyday snapshots into sensational photos. Geo-tagging functionality allows teachers and students to view photos on a map based on where the images were taken, as well as leverage people recognition tools to organize photos and video clips in one convenient place.	Fee-based
	Adobe Premiere Elements	Adobe Premiere Elements 11 software helps you edit video using smart, automated options, enhance your movies with pro-quality effects, and then share on virtually any screen. Live in the moment knowing that you can easily turn	Fee-based



Category	Software Title	Description	Fee/Free
		creation software.	
	Adobe Acrobat Professional	<p>With new Adobe Acrobat XI Pro, learning is more engaging. Organize coursework and assignments in media-rich PDF Portfolios. Improve collaboration and security using powerful commenting tools and password protection.</p> <ul style="list-style-type: none"> • Create rich documents and portfolios - Easily bring together documents, spreadsheets, presentations, web pages, videos, photos, and more in a polished PDF file or PDF Portfolio. • Collaborate more effectively - Use enhanced commenting tools to easily annotate and collaborate on everything from curriculums and lesson plans to policy reports and grants. • Protect institutional information - Make your school's operations more secure by adding passwords to sensitive files, like student and employee records, grant proposals, and research pages. 	Fee-Based (Acrobat Reader is free)
Music	Adobe Audition CS6	<p>Adobe® Audition® CS6 software offers high-performance, intuitive tools for audio editing, mixing, restoration, and effects. Powerful new features such as real-time clip stretching, automatic speech alignment, and control surface support help you deliver projects faster than ever.</p> <p>Produce top-quality audio for film, broadcast, games, and other projects more efficiently with smooth Adobe Premiere Pro roundtrip editing and easy project exchange with other NLEs and DAWs.</p>	Fee-based
	Microsoft SongSmith	A <u>free</u> application from Microsoft's Partners in Learning program, Songsmith generates musical accompaniment to match a singer's voice. Just choose a musical style, sing into your PC's microphone, and Songsmith will create backing music for you.	Free



Category	Software Title	Description	Fee/Free
		<p>Songsmith is a great way to encourage students to be creative: many music teachers know that sometimes just helping kids “find their spark” is the hardest part of stimulating musical creativity.</p> <p>Furthermore, Songsmith can help you teach musical concepts that are sometimes difficult, particularly how chords are used in pop music and how melodies and chords fit together. Using tools like Songsmith to explore these concepts can help connect what students are learning in music class to the music they listen to at home, whether they’re in third grade or in high school.</p> <p>Even outside of music classes, Songsmith is a great way to encourage creative approaches to learning. We’ve heard from teachers who had students write songs about science concepts, and we’ve heard from parents whose children used Songsmith to memorize their multiplication tables.</p> <p>Songsmith can be reviewed and downloaded for free at http://research.microsoft.com/en-us/um/redmond/projects/songsmith/index.html</p>	
Web	Microsoft Expression Web	<p>Microsoft offers more basic and advanced options for web design and development. More advanced web design tools are offered through Microsoft Visual Studio. Based on the software previously used by the MLTI, Microsoft’s Expression Web offers a similar set of functionality as is currently a free download.</p> <p>Create compelling Web sites visually. If you think and create visually, use the state-of-the-art design surface to layout your Web page. You can make design decisions on the fly, knowing that you're seeing a faithful representation of the final browser-rendered page. Drag and drop controls simplify adding rich media, such as Silverlight from Microsoft Expression Blend, Silverlight video, Adobe Flash, and Windows Media. And advanced</p>	Free



Category	Software Title	Description	Fee/Free
		<p>Adobe Photoshop file import gives you complete control over imported layers and transparency.</p> <p>Expression Web and Expression Design can be downloaded for free at http://www.microsoft.com/expression/</p>	
Security	Microsoft Security Essentials	<p>Use Microsoft Security Essentials to help guard against viruses, spyware, and other malicious software. It provides real-time protection for your PCs and can be downloaded at http://windows.microsoft.com/en-US/windows/security-essentials-download</p> <p>Microsoft Security Essentials is free* and we designed it to be simple to install and easy to use. It runs quietly and efficiently in the background so you don't have to worry about interruptions or making updates.</p> <ul style="list-style-type: none"> • Comprehensive malware protection • Available in 33 languages • Simple, free download • Protects you quietly in the background • Automatic updates 	Free
	Absolute CompuTrace	<p>Absolute Computrace allows organizations to centrally track and secure all of their endpoints within a single cloud-based console. Computers and ultra-portable devices can be remotely managed and secured to ensure – and most importantly prove – that endpoint IT compliance processes are properly implemented and enforced.</p> <p>Computrace is used by hundreds of schools across the nation to centrally track, locate, and secure IT assets within a single cloud-based console. Asset inventory cycles are reduced from days to minutes. Alerts are sent as soon as suspicious behavior is detected. And you don't need to spend additional budget on replacement computers because stolen devices</p>	Fee-based



Category	Software Title	Description	Fee/Free
		are recovered with a guarantee. Additional details may be found at http://www.absolute.com/solutions/K12education	
Productivity	HP Classroom Manager	<p>HP Classroom Manager allows you to make teaching more effective for your faculty and learning more exciting for your students. This powerful educational software is part of the HP Digital Learning Suite—a comprehensive solution that allows for collaboration of classroom technology to create a more interactive and cost-effective learning environment.</p> <p>Teachers are empowered to...</p> <ul style="list-style-type: none"> • Monitor student activity and progress • Create interactive lesson plans with shared content • Communicate with any student without interrupting the class flow • Easily apply basic and advanced features to create an engaging learning environment • Administer real-time quizzes, tests, or surveys and view student progress in case assistance is needed • Share any desktop with students or the entire class • Control printers, keyboards, monitors, USB drives, or other connected devices 	Fee-based
	Absolute Manage	Absolute Manage for endpoint management maintains the health of each device in your school technology environment. Supports all of your common operating systems and devices within a single console. Prevent the spread of viruses and forbidden applications. Use every software license and mobile application before you buy more. And redirect the money you save from implementing Power Management	Fee-based



Category	Software Title	Description	Fee/Free
		policies to more meaningful school initiatives.	

6.7.1.1. Maine Proficiency- and Standards-based Education Models

Maine is a leading state in the implementation of using national standards and industry recognized credentialing exams as assessments. The national and state certified standards currently in use can be found at

http://www.maine.gov/education/it/resource_directory.shtml. These standards are our CTE's programs' benchmarks. Twenty-four Maine school districts have formed the Maine Cohort for Customized Learning

(<http://mainecustomizedlearning.org>) which seeks to support the implementation of performance-based learner-centered educational systems. Further, Maine recently enacted LD1422, "An Act to Prepare Maine People for the Future Economy"

(http://www.mainelegislature.org/legis/bills/display_ps.asp?LD=1422&snum=125). It calls for the implementation of proficiency-based diplomas beginning in January, 2017.

The Department is interested in solutions that will support the implementation of a performance/proficiency-based, standards-based system of education. This system would allow students and teachers to track, measure and produce reports based on student-centered project completions and instructor-led activities. The system would need to be able to track data at multiple levels (duty, task, indicator), provide progress indicators at different intervals and be cross-walked between Maine's *Learning Results* including the *Common Core State Standards* and anticipated *Next Generation Science Standards*, and Maine selected CTE national and state certified Standards and Assessments. The system should allow for data integration with assessment systems including the Smarter Balanced Assessment Consortia assessment system, Northwest Education Assessment tool, and others. In addition, ideally the system would provide alignment between student learning needs based on performance data and measures and applicable content and resources that may be available both at cost or for free (i.e. Open Educational Resources).

Response:

Learning and the successful achievement of Common Core Standards is reliant upon true personalized learning – not merely differentiated learning – for every child. As such, a learning management system to record, track and analyze student performance data requires a thorough amount of understanding from all educators and school/state officials.

While there are several applications that can deliver this – either fee-based or using a customizable open-source equivalent, HP would prefer to work with the State in developing the core functionality and goals, and jointly analyze those systems so the recommendation can be objective and in the best interest for Maine's educational stakeholders.



6.7.2. Optional Hardware

The vendor may provide students and teachers access to other hardware components, such as alternate portable computing devices, printers, servers, wireless access points, batteries, power cords, projectors, assistive devices, or other optional hardware devices. Specify such offerings here.

Response:

HP has a broad range of hardware offerings that the State may wish to consider as a complement to the existing teacher and student systems. HP will work with the State to identify a core set of hardware offerings that would provide the best mix of additional, optional products, and which would significantly enhance the use of the teacher and student systems proposed. These additional offerings could include (but are not limited to) items such as alternate input/output devices (keyboards and mice), additional power solutions (adapters, power cords and batteries), printers, servers, wireless access points, projectors, software and educational applications. Specific offerings, part numbers, descriptions and unit cost information can be provided after the core set of hardware offerings is defined.

Please refer to Appendix B, Cost Proposal Form, Table 4.

6.8. Pricing Schedules for Additional Educational Groups

The Department of Education wishes to extend the opportunity to purchase, at their own expense, the Bidder's solution, at the same or nearly the same cost to other educational providers such as public and private K12 schools, teacher preparation programs, home-schooled students, or public libraries. This will allow school systems to extend the program beyond the Department supported program. The Bidder should provide a pricing schedule to be utilized if such groups or individuals are authorized by the Department and if they wish to purchase the device, software and support solution provided under the agreement with the Department.

Response:

HP has provided optional pricing response to cover additional buildings and devices, which includes K-8 students. In addition, HP has a wide range of additional software and hardware offerings that State of Maine or other NASPO participant-funded K-12 educational providers may wish to consider as device options to complement the existing system proposal. These optional items are in Appendix B, Cost Proposal Form, Table 4. HP would be happy to discuss expanding our proposal in greater detail if awarded this project.

HP welcomes the opportunity for local educational stakeholders to participate in the technology initiative. HP offers to the general U.S. education community a private online shopping portal at www.hpdirect.com/academy where educators, parents and students can register and receive academic pricing at a substantial discount above what they would find at local retail outlets for HP computers, printers, software and accessories. Prevailing academic pricing is offered on that site and is updated frequently to provide cost competitive pricing throughout the year.

6.8.1. Maine K-6 schools

Maine schools serving grades K-6 are increasingly deploying 1:1 computing programs similar to the MLTI 7-12 program. Historically, the Department has extended the opportunity to purchase the MLTI solution to K-6 schools, at their expense, but through the Department's Agreement



(see **Section 5 Participation by Schools**). The Department is interested in continuing this opportunity for Maine's K-6 schools and also recognizes that other States that may participate in this program are seeking to support these grade-levels. Additionally, the Department recognizes that the device, tools and functionality described in **Sections 6.5 and 6.6** may or may not be applicable to younger students.

The Department wishes to make available to K-6 schools a solution that mimics the solution as described in this RFP for grades 7-12 in as many places as possible but that may vary to take into account developmental differences and be more age-appropriate.

Ideally, aspects of the solution that are systemic and not specific to the individual student or teacher would be identical or nearly identical such as **Section 7 through Section 12**. Bidders should recognize that many Maine schools are K-8 or even K-12. Therefore, differences in service levels or service protocols may cause confusion. Bidders must describe how its solution would be different for schools serving grades K-6. For example, the solution may leverage the same device but with a different collection of software tools; the solution may leverage a completely different device and therefore different tools; or the solution may be identical in all aspects. Bidders should consider whether multiple variations are necessary to best serve the developmental needs of students ranging from kindergarten to grade 6. Bidders must also list and acknowledge which aspects of their bid proposal would be identical for the K-6 solution as compared to its proposed 7-12 solution.

Response:

HP believes that standardization is essential to providing schools with consistent and reliable service for their technology initiative. Maintaining disparate hardware, operating systems and applications can often extend the down-time for repairs and support, negatively impacting instructional time.

The hardware and core software being recommended in this RFP is instructionally sound for grades K-12. While we may have recommended a device with different form factor size, user input or processing ability based upon the users' needs, the bid specifications prevent HP from including other hardware choices in this response.

6.8.2. Maine Pre-service Teachers and Higher Education

The majority of Maine's teachers graduate from Maine public and private higher education institutions. In order to help prepare these teachers to teach in a MLTI school, the Department believes that these pre-service teachers should have access to and should learn to leverage the MLTI solution. Integration of the MLTI solution and the changes in classroom practices empowered by the solution into the higher education curricula is critical to the development of new teachers as well as the innovation of classroom practices. Additionally, in-service teachers continue to complete courses at Maine higher education institutions to maintain their teacher certifications, and the Department believes that a deeper integration of the MLTI solution into these institutions will better serve in-service teachers as well. The Department recognizes that there are significant differences in how higher education institutions provide infrastructure and support, and how higher education students typically procure personal computing devices. Bidders must describe its plan to allow higher education institution teacher preparation programs in Maine to participate in the MLTI and provide devices and necessary services to the institution



and pre-service teachers. Bidders must identify which aspects, if any, of its solution would not be available to Maine higher education institutions and pre-service teacher candidates. In addition, Bidders must propose how it intends to structure any financial arrangements including potential leases, invoicing, etc.

Response:

HP has been honored to support the student computing needs across many public and private higher education institutions and administrations across the U.S. By complementing the device with world-class service and support options, students and faculty are able to have a superior computing experience. HP extends this offer to pre-service teachers and private higher education institutions which qualify to participate under the NASPO cooperative contract.

HP offers to the general U.S. education community a private online shopping portal at www.hpdirect.com/academy where educators, parents and students can register and receive academic pricing at a substantial discount above what they would find at local retail outlets for HP computers, printers, software and accessories. Prevailing academic pricing is offered on that site and is updated frequently to provide cost competitive pricing throughout the year.

We have proposed a variety of financial arrangement options in our response to RFP Appendix D, NASPO Standard Terms and Conditions.

7. Network Connectivity and Infrastructure

The wireless network infrastructure shall connect from the portable computing devices at one end to the school's Internet gateway at the other end. Between the two ends, the Provider's solution must include switches and/or controllers as needed, the placement of wireless access points, server capacity for applications/files (as appropriate), and any other components necessary to complete the solution. In order to minimize the necessity to perform local electrical upgrades, Power-over-Ethernet is preferred. A Provider will be responsible for the design, installation, configuration, and on-going maintenance and support of the wireless network infrastructure for the term of the Agreement. Bidders must complete the **Wireless Local Area Network (WLAN) Specifications Summary** included in **Appendix G – Additional Forms**.

Response:

HP's partner ENA is uniquely positioned to be able to provide both seamless interoperability and connectivity for portable computing device users. ENA's service will provide a managed wireless infrastructure within the framework of each location where students with MLTI devices attend class. We are confident that this approach will result in a more robust overall solution with a single entity responsible for end-to-end connectivity for portable computing devices and, ultimately, the success of the program. With HP, through our partner ENA, as the managed wireless infrastructure provider, we will be able to pro-actively analyze and troubleshoot issues which may range from local interference of radio frequency (RF) signal strength.

HP, through our partner ENA, will provide a completely separate, fully monitored wired LAN per facility including PoE switches to the access points and end-to-end network connectivity between the wireless clients and each state, or to the school's WAN demarcation point and is designed to fully and seamlessly interoperate with the proposed portable computing device from HP. All required cabling/wiring and hardware is included. The solution is designed to minimize necessary costs of building preparation; however, each school district will be required to ensure



minimum building readiness prior to the installation. The proposed solution for the portable computing project includes all wireless access points, power over Ethernet (PoE) switches, controller hardware and software, cabling, and implementation and support resources necessary to deliver seamless end-to-end connectivity service for students and their teachers.

7.1. Building Readiness

Each local school unit that opts to participate in this program shall be responsible to ensure minimum building readiness for the installation of the bid solution. The local school unit shall address structural issues, construction/renovation, abatement, and electrical wiring needs, based on specifications supplied by the Provider. The bid solution should be designed to minimize necessary costs of building preparation.

Response:

HP and ENA have read and understood this section. Through our approach, we minimize building preparation costs by using existing cabling and wiring closets as possible.

7.1.1. Maine - Existing MLTI Wireless Networks

Existing MLTI network devices (wireless access points, switches, controllers), and infrastructure (cabling, patch panels) may be utilized by the Provider's solution at the Provider's choice. If a Provider's solution includes existing MLTI network devices or infrastructure, the Provider must agree to provide full warranty/performance coverage as it would with newly installed devices or infrastructure. The in-school infrastructure shall be accessible wirelessly and remotely. For more information about the existing MLTI wireless infrastructure, please see **Appendix E, State Profiles - Maine**.

Response:

HP and ENA will evaluate the condition of the infrastructure and endeavor to use it with our wireless solution. We do not plan to leverage existing network devices as it is our understanding that all current wireless access points, switches and controllers are nearing or have reached end-of-sale and will certainly reach end-of-life during the term of this contract. We intend to deploy entirely new network devices as part of our deployment of portable computing devices.

HP and ENA will provide full warranty and performance coverage of our installed devices and any of the existing infrastructure (cabling and patch panels) that we use in our deployed solution.

All in-school infrastructure will be accessible wirelessly and remotely for both the deployed portable computing devices as well as for our service center to manage and monitor our wireless solution.

7.1.2. Hawaii - Existing Wireless Networks

Hawaii has a separate plan for wireless networks and does not anticipate requiring any services for this. Deployment of devices will be decided based on the readiness level of the wireless infrastructure inside of schools. Please see **Appendix E, State Profiles - Hawaii** for more details on Hawaii's infrastructure readiness.



Response:

HP and ENA have read and understand. We will configure the portable computing devices to interoperate with the existing Hawaii network infrastructure and will rely on existing Hawaii resources to manage and troubleshoot the physical wireless network infrastructure and service.

7.2. Local Network and Access

These network access services will include as a minimum:

7.2.1. Wireless Coverage

The coverage must ensure that all necessary instructional and administrative areas can function wirelessly. Students and teachers will remain connected to the school's wireless LAN as they move around within the various rooms and areas. The Provider will ensure access to the school's wireless network from all instructional areas as well as core administrative areas including academic classrooms for all content areas, frequently used study areas, media centers, assembly spaces, library, performance theater, and administrative offices. To the extent necessary, a site survey should be performed to optimize each school's coverage area. A school may expand the coverage area at its own expense using the Provider's optional equipment offering or another available vendor.

Response:

Our implementation will ensure more than sufficient capacity and coverage to enable all instructional and administrative areas to function wirelessly. Students and teachers will be able to seamlessly roam from access point to access point (AP) without needing to re-authenticate as they move among the various rooms and areas of the school building. Coverage for portable computing devices will include access to all primary high school instructional areas, core administrative areas, academic classrooms, frequently used study areas, media centers, assembly spaces, library and administrative offices.

Upon award, site surveys will be performed at each school within scope to optimize each school's coverage area.

Each school will have the ability to expand the coverage area beyond the coverage provided through the project at its own expense. The cost for this is detailed in our cost proposal in Appendix B, Cost Proposal Form, Table 4.

The pricing submitted does not include moving equipment after it has been installed, to another location. HP understands over the life of this program, the State and individual school districts will be opening new schools and expanding or upgrading existing facilities which may require the removal and re-installation of equipment that is already under lease. This work is not covered in the pricing provided in this proposal. HP will work with the State to provide per event pricing for these activities and will work with the State to provide these services.

7.2.2. Wireless Access

Each participating school will be provided with a wireless connection. The Provider will be responsible for deploying switches and/or controllers, sized for the school's needs, that connect the buildings router and wireless access points. The portable computing devices will access the wireless LAN including network, switch, servers, access points, and associated hardware to provide a robust network environment for the student and teacher devices. This includes access



from the school environment via the wireless network and any provided servers and the services it provides, including access to shared applications and files. Any proposed servers the Bidder may propose should include a description of where the servers will be located.

The Provider is responsible for all associated costs and services necessary to incorporate any proposed servers into the Provider's solution. Additional access points, wiring, electrical and equipment (if necessary) will also be provided as a local school option.

Each Bidder must describe its solution's capabilities as well as its limitations (e.g., interference susceptibility, distance, spatial streams and object penetration), including what wireless industry standards (e.g., 802.11g, 802.11n, 802.11ac, etc.) are employed in the solution.

Response:

As stated above, all required wireless access points, PoE switches, sized for each school's need, controller hardware and software and cabling will be supplied to fully support the proposed wireless solution and will enable access to the school environment via the wireless network and its services, including access to shared applications and files. HP's, through our partner ENA, proposed solution incorporates resilient network-based controllers and is therefore designed to minimize the requirement for premise-based controllers and servers.

- Full support for all IEEE Wireless over Ethernet standards, including legacy 802.11a/b/g as well as the most recent standard, 802.11n. Upon formal standardization, we will review 802.11ac for potential inclusion.
- 2.4 and 5 GHz coverage for all areas
- Adaptive radio band management technology that will automatically place connected wireless clients on the spectrum and channel that most optimizes performance and mitigates RF interference
- Seamless roaming between APs in the same school and seamless and automatic connectivity when a device is moved from one school to another in the same district
- IP address management and delivery (DHCP) services for all wireless devices
- Routing and security configuration to enable wireless clients to reach appropriate local resources, including printers
- WEP, WPA, and WPA2 encryption options for all network traffic between the client and the AP, as well as SSL encryption of all management traffic between the APs and the controllers
- Certificate-based as well as optional integrated directory (LDAP/Active Directory) authentication for wireless users
- On-line interface for authorized school district personnel to view appropriate Wi-Fi utilization statistics for their specific district, and otherwise view and manage their district Wi-Fi implementation.
- Sophisticated wireless policy management that will enable ENA to provide variable wireless bandwidth and access control to different users not only based on their authenticated username but also their device type (in order to provide support for local devices but also prioritize access for portable computing devices)
- Optional rogue AP detection and neutralization
- Fault tolerant architecture that will automatically recover in the event that a local access point fails by appropriately increasing RF spectrum strength of the adjacent APs in order to provide seamless coverage



- Round-the-clock network monitoring and support
- Quickly scalable design that will allow for wireless coverage growth as schools expand, desire coverage beyond the high school instruction areas or implement new computing initiatives

Each school will have the ability to expand the coverage area beyond the coverage provided through the funded project at its own expense. Pricing for this option is detailed in our cost proposal in Appendix B, Cost Proposal Form, Table 4.

Optional rogue access point (AP) detection and neutralization provides the ability for ENA to identify non-authorized Wi-Fi access points within the school or campus setting and actively prevent any MLTI device from attaching to the networks broadcast by the rogue access point. This service requires careful calibration and consultation with the local district staff to ensure that rogue APs are properly detected, but that legitimate, though non-MLTI-related, Wi-Fi networks are not affected. Pricing for this option is detailed in our cost proposal in Appendix B, Cost Proposal Form, Table 4.

7.2.3. Wireless Bandwidth

For the wireless solution to be effective, sufficient and necessary bandwidth must be included. The solution must not only include sufficient aggregate bandwidth but must also be capable of being customized for varying needs within a school. Bidders must describe its strategy for providing sufficient bandwidth in a school environment, including how it intends to support the densities represented by classrooms of students, and the roaming nature of students (i.e. students change locations throughout the day). Each Bidder must specify and describe the capability and flexibility of its solution. The Bidder's solution should recognize that devices in addition to those provided through the Bidder's solution (e.g. smart phones, wireless printers, other computing devices) will also connect to the wireless network. Bidders will address how its solution provides adequate throughput (i.e. MIMO, dynamic frequency selection (DFS), dynamic channel allocation (DCA), spatial streams, etc.) to the solution in a mixed (i.e. 802.11b, 802.11g, 802.11n, 802.11a, 802.11ac, etc.) environment. It is expected that the Bidder's solution will represent the majority of wireless clients, but not the only clients.

Response:

HP's, through our partner ENA, proposed wireless implementation will support the latest IEEE 802.11 a/b/g/n standards for extremely high aggregate and individual wireless client throughput. As a standard, we plan to use dual radio MIMO access points that support up to 300 Mbps data rate throughput to any one individual MLTI portable computing device (which will be equipped with dual band radios themselves), and up to 600 Mbps aggregate bandwidth. However, our managed wireless service is designed to be very flexible, so in the event a school has a high concentration of users in a specific area, or a subset of users that require very high individual wireless bandwidth, we can install even higher capacity access points that will be able to support 900 Mbps total aggregate bandwidth per AP, and up to 450 Mbps to an individual client. Or we can add additional APs, as required, to ensure we have deployed a robust infrastructure that fully support the instructional needs of the school in question and its students.

Fifty (50) concurrent guest accounts for non-MLTI devices to access the ENA/HP wireless network deployed in each school. For larger MLTI device deployments, ENA/HP will provide an additional guest account for every 3 MLTI devices deployed beyond 150.



7.2.3.1. Wireless Usage

The Department anticipates that usage of the network will increase throughout the course of the Agreement as teachers and students integrate the solution into daily curricula and tasks. In addition, the nature of the usage may change over time as Internet technologies evolve and/or usage patterns change.

While the Department cannot predict those changes, Bidders must describe how its solution will accommodate known network usage patterns including cloud-based services, video streaming including multi-cast sessions, and other bandwidth intensive tasks. If the Bidder's solution requires Bluetooth connectivity (e.g. keyboard connectivity to a tablet-style device), the Bidder must describe what, if any, impact on the wireless network this would have.

Response:

ENA, like the MLTI, anticipates that network utilization will grow significantly throughout the course of the Agreement. As an integral component of the ENA managed wireless service, ENA monitors both the real-time and aggregate bandwidth utilized per device as well as per school. ENA provides this information to local technology staff through a variety of reports to help local institutions ensure that their connectivity to the Internet is adequate to support the ongoing usage patterns of their local wireless users. In addition, ENA works with local technology staff to implement best practice wireless networking that can prioritize network access for specific applications, such as cloud-based educational curricula and testing sites. ENA can also prioritize traffic based on user role and local user directory membership. For example, ENA can prioritize a teacher's traffic over student traffic in a classroom. ENA also includes specific Wi-Fi radio optimization techniques as part of the ENA managed wireless service. These optimizations are based on our significant experience working with schools and libraries, and are designed to accelerate the delivery of multi-cast traffic to wireless clients.

7.2.4. Internet Access

Access to the Internet for schools is to be provided via each school's connection to its ISP. The Provider will ensure its solution works with the school's connection, and the Provider will work with each school's ISP to identify appropriate bandwidth and network infrastructure as needed. Internet content filtering, such as required by C.I.P.A. federal law, will be the ISP's and the local school's responsibility, not the Provider's. The Provider shall, to the extent feasible, consult and advise on the availability of cost effective measures for Internet content filtering.

Response:

HP and ENA understand that content filtering will be required for the devices deployed as part of the MLTI project. We will work with each school's ISP to identify appropriate bandwidth and network infrastructure as needed. We understand that we are not responsible for providing content filtering but agree to assist to the extent requested and possible to support the school and ISP's filtering solution.

7.2.4.1. Maine Internet Access



Most Maine schools are connected to the Internet through the Maine School and Library Network operated by Networkmaine. At the minimum, MSLN provides a 10Mbps connection to the MSLN with maximum connections of 1Gbps in some locations. Bidders must identify Maine school locations it believes will require an increase in available bandwidth and how much of an increase in order to successfully leverage the proposed solution. For more information about the MSLN, please see **Appendix E, State Profiles - Maine**.

Response:

HP and ENA propose that Maine review the SETDA recommendations for network access as referenced in section 6.6.8 of this response. We believe that the State of Maine should work diligently to obtain the funding and ensure that leadership is focused on reaching the goals stated in the SETDA report in order to ensure that all locations have adequate bandwidth to successfully leverage the proposed solution over the long term. During our site walk-outs as well as during the operation of our solution, we will work with the State of Maine and individual school districts to identify any schools that need additional connectivity after award and an evaluation of actual service use. We do not have enough information about the utilization of the current Networkmaine connectivity at each site in order to identify or evaluate where the levels of connectivity are sufficient for the student population, however our proposed solution does not uniquely require any more bandwidth than any other responded to this RFP.

7.2.4.2. Hawaii Internet Access

Most Hawaii schools are connected to the Internet through the Hawaii Department of Education's primary Internet Service gateway at its main administration building in downtown Honolulu. The Hawaii Department of Education provides a 2 gigabit connection to the Internet, which is distributed to schools via a fiber network throughout the state. Parts of this network are under construction and some schools will be using cable modems to access our internal network until construction is complete. Bidders must identify Hawaii school locations it believes will require an increase in available bandwidth and how much of an increase in order to successfully leverage the proposed solution. For more information about the Hawaii Network, please see **Appendix E, State Profiles - Hawaii**.

Response:

HP and ENA propose that Hawaii review the SETDA recommendations for network access as referenced in section 6.6.8 of this response. We believe that the State of Hawaii should work diligently to obtain the funding and ensure that leadership is focused on reaching the goals stated in the SETDA report in order to ensure that all locations have adequate bandwidth to successfully leverage the proposed solution over the long term. During our site walk-outs as well as during the operation of our solution, we will work with the State of Hawaii and individual school districts to identify any schools that need additional connectivity after award and an evaluation of actual service use. We do not have enough information about the utilization of the current Hawaii Network connectivity at each site in order to identify or evaluate where the levels of connectivity are sufficient for the student population, however our proposed solution does not uniquely require any more bandwidth than any other responded to this RFP.



7.2.4.3. Vermont Internet Access

Most Vermont schools are connected to “high speed” broadband access as defined by their providers. This means the access levels can vary greatly in different portions of the state. Included in **Appendix E, State Profiles - Vermont**, is a summary table of connectivity levels across the state.

Response:

HP and ENA have read and reviewed the content included in Appendix E, State Profiles – Vermont and propose that Vermont review the SETDA recommendations. We understand that the connectivity levels throughout the state vary significantly, however we do not have enough information about the utilization of the current connectivity at each site in order to identify or evaluate where the levels of connectivity are sufficient for the student population. Our proposed solution does not uniquely require any more bandwidth than any other responded to this RFP and one of our partners in this response (ENA) has an existing contract with the state of Vermont that will permit schools and districts to acquire higher levels of connectivity without having to enter into a separate procurement.

7.2.5. **Existing School Networks**

The solution will provide wireless access for the computing devices to the school’s existing network. While school internal networks vary, the network operating systems tend to cluster into Novell, Windows, Macintosh OS X, Unix and Linux. All schools have Ethernet capability.

Response:

As noted above, HP, through our partner ENA, will provide a completely separate, fully monitored wired LAN per facility including PoE switches to the access points and end-to-end network connectivity between the wireless clients and the IEN. All required cabling/wiring and hardware is included. As such, use of existing cabling in the schools will not be required. HP/ENA will work with each local school to coordinate any required electrical work.

ENA will provide skilled and licensed electrical and low-voltage wiring specialists as required to both identify required electrical work and perform necessary cabling to connect access points to the newly-installed LAN switches.

7.2.6. **Server Functional Partitioning**

If servers are provided as part of the solution, these servers should allow accommodation for effective and flexible use in school settings. For example, this could include the provision to logically subdivide the server functions so that a server may be used for working with a single student, groups of students within a classroom, a single classroom, groups of classrooms, a single school, groups of schools, to the entire state. In general, server functions should be able to be isolated to individual or any group of users including across classes of users (e.g. students or teachers, 7th graders or 8th graders, etc.) as well as to be able to be used collaboratively across classrooms, schools, and potentially in a statewide fashion. For more information about the existing MLTI network, please see **Appendix E, State Profiles - Maine**.

Response:

HP does not anticipate the use of servers at any school location as part of our solution.



7.2.7. Growth

Suitable architecture must be provided to allow for growth in the wireless network infrastructure if there is growth due to additional grades in the school utilizing the infrastructure or growth in the population of the school utilizing the infrastructure.

Response:

The HP/ENA-managed wireless is designed to accommodate both the immediate needs as well as the future aspirations of districts in their pursuit to deliver wireless access to end point devices. ENA will provide a standards-based, flexible wireless solution that will meet and exceed MLTI wireless connectivity requirements. Bring your own device concepts, or BYOD, is a growing trend and challenge for states and schools. With an ENA provided solution, the State and local districts can be confident that they have a partner that can help navigate through these challenging and changing dynamics. ENA's managed wireless infrastructure will not only ensure prioritized bandwidth for wireless devices, but will also be able to provide optional service to district-owned, BYOD and/or guest devices. As school districts make local investments in technology and the number and variety of devices deployed in classrooms continues to grow, their wireless network infrastructure must be able to accommodate a wide variety of wireless devices while, at the same time, establishing priority networking for portable computing devices. ENA's managed wireless service will deliver both.

7.2.8. Print Services

The portable computing devices will be able to utilize a school's existing networked printers. The Bidder must list supported printing protocols as well as list common unsupported printing protocols, recognizing that schools tend to leverage technologies for longer timeframes than is commonly found in many other industries.

Response:

HP shall ensure that the portable computing devices shall be able to print using a school's existing networked printers. HP shall work with the districts as the primary organizational units used to aggregate requirements and define a district specific customization to the statewide base image deployed on all devices.

HP shall work with each district to aggregate the necessary commercially available drivers and group policies for all participating schools in that district. These drivers shall be included in the district specific customizations to be applied to the statewide base image. Thus the printer drivers used in a given school shall, by virtue of that school's membership in a given district and the creation of a set of image customizations for that district, be provided.

7.3. Remote Network Access

7.3.1. Portability

The Provider's portable computing device must enable students and teachers to access the Internet from their homes or other locations. The Provider's solution must also be accessible from remote locations, using the personal computing device, via other ISPs - for example, for a student to access the Provider's solution through the family's ISP account. Bidders must describe what methods are supported by the solution.



Response:

The HP MLTI device is configured with standards-compliant wireless and wired network access. Students and teachers can connect to the Internet via the family’s ISP account using these standards-based network access methods and will be able to receive updates from the pre-installed LabTech agent as well as perform Internet and school work on the device from their home or other locations.

We have also included ClassLink’s LaunchPad product on each HP MLTI device as part of our solution. ClassLink LaunchPad reinvents the experience of instructional technology: LaunchPad is the student and teacher’s personalized cloud desktop that gives access to school from anywhere. LaunchPad is delivers access to files (both in the 3GB ClassLink storage area and for configured district- and school-based file servers), school software and powerful collaboration tools both within the school and when working remote.

7.3.2. Other Devices

It is desirable that the Provider’s solution, if applicable, also be accessible from remote locations using another computer – for example, for a student to access the servers associated to the Provider’s solution through the family’s home computer. Bidders must document which aspects of its solution will be available to students and teachers from a device other than the Provider’s portable computing device and what, if any, special software is necessary.

Response:

As mentioned in 7.3.1, HP has included ClassLink’s LaunchPad product on each HP MLTI device. LaunchPad offers the ability for students and teachers to access their personalized cloud desktop that gives access to school from anywhere. LaunchPad allows students and teachers to log-in to their cloud desktop from another computer via a simple web-based interface as well as touch and iOS (iPad/iPhone) applications. The web- and application-based LaunchPad interface provides the same accessibility to the student and teachers from remote and personal devices using alternate internet access, as if they were using their own HP MLTI device.

8. Performance and Quality

8.1. Uptime

The Provider will ensure, at a minimum, that all functions of its classroom solution are reliable and available to the schools during the Period of Prime Usage. This period is 6:00 AM to 10:00 PM, local time (i.e. Maine local time for Maine or Hawaii local time for Hawaii), Monday-Friday, excluding holidays. During this period, the required uptime is as follows:

Period Of Prime Usage	Uptime Percentage
7:00 AM to 3:00 PM, local time, Monday-Friday, excluding state holidays	99%
6:00 AM to 7:00 AM and 3:00 PM to 10:00 PM Monday-Friday, excluding state holidays	95%



No scheduled downtime will be allowed for the instructional technology infrastructure except (1) for scheduled preventative maintenance, or (2) with the approval of the local school coordinator for issues affecting only the local school, or (3) with the approval of the Department Agreement Administrator for system-wide outages. This infrastructure includes the wireless LAN, servers, remote access and any other vendor-installed equipment.

Response:

HP and our technology partners have reviewed and agree to the infrastructure availability standards defined.

Our combined solution includes any new wireless infrastructure HP and its partner ENA install. This includes monitoring, redundancy and failover capabilities associated with a new wireless infrastructure. Multiple wireless access points per school will provide stable wide area coverage to teachers and students in the event of an access point failure. Fault tolerant architecture will automatically recover in the event that a local access point fails by appropriately increasing RF spectrum strength of the adjacent access points in order to provide seamless coverage. Next business day onsite dispatch and repair will occur if remote efforts to resolve recovery of the access point fail.

The HP/ENA managed datacenter will house network switching and core server equipment. Redundancy and failover capabilities in the event of hard failure are in place to where no single unit failure will compromise the infrastructure service.

In regard to the strategy to meet State goals of uptime and replacement within a timely manner, HP is proposing a combination of whole-unit user-replaceable hot spare stock and other HP-installed equipment.

HP is including a managed services agreement which covers the devices for 4 years from date of acceptance. This custom support and maintenance covers parts and labor in support of portable computing devices under normal wear provided under the MLTI project. This custom support is being accomplished by the use of "hot-spare replacement units" and a return to repair depot repair strategy. A hot-spare is defined as a complete unit. These hot-spare units will be supplied in the same configuration as the ordered, at a rate of 3% over and above the quantities ordered for that configuration. In regard to the strategy to meet MLTI goals of uptime and replacement within a timely manner, HP is proposing a combination of whole-unit user-replaceable hot spare stock and support for other HP-installed equipment.

8.2. Device Reliability

The solution will provide device reliability and a service level that ensures no student is without a functioning device for more than one (1) school day. This may mean that different support plans need to be in place for different schools.

Response:

HP will provide validation testing prior to unit deployment. Service levels will be met through hot-sparing of whole portable computing devices and will be available to each school with quantities to be defined as a percentage of units deployed with flexibility within the State to



adjust as need dictates. End user replaceable parts (EURP) like batteries and power cords will be provided to each school districts technology administrator for quick repairs.

Each school will be provided shipping material to return all failed units to a central HP repair facility. Once repairs are made, the device will be sent back to the schools to use to replenish depleted hot spare shelves.

HP will provide an additional quantity of hot-spare units over and above the number of units order by the State as a part of this Initiative. These hot-spare units will be supplied in the same configuration as those ordered. A hot-spare is defined as a complete unit.

Additional end user replaceable parts (EURP) will be supplied at a stocking level to be determined and in the form of components such as: hard disk drive; battery; AC Adapter, DVD and port replicator (if included) to allow for replacement of only the portion of the device that has failed.

8.3. Response Time

The solution must provide services to all students and teachers concurrently on the wireless network with quality response time that does not hinder or impede effective instruction and learning in the classroom. This requirement includes the ability for students to browse the Internet, download files and use streaming or multi-cast video without unreasonable delay.

Response:

HP/ENA's proposed wireless implementation will support the latest IEEE 802.11 a/b/g/n standards for extremely high aggregate and individual wireless client throughput. As a standard, we plan to use dual radio MIMO access points that support up to 300 Mbps data rate throughput to any one individual portable computing device (which will be equipped with dual band radios themselves), and up to 600 Mbps aggregate bandwidth, but we can expand to 900 Mbps aggregate throughput per access points in certain areas as required. Furthermore, our service includes complex air time fairness algorithms and bandwidth allocation policies, created in coordination with the local technology staff, so that we can ensure students and teachers served will be able to have more than adequate capacity to reach local LAN-based resources. (Please note that adequate access to wired Internet-based resources may be affected by factors other than wireless capacity, in particular the capacity of the wide-area network connecting the school to other district resources, as well as the capacity and saturation level of the wired connection to the district itself.)

The HP ProBook 4440s standard configuration includes an Intel Centrino Advanced-N 6235 solution. This wireless solution provides dual stream (2x2), dual band Wi-Fi capability plus Bluetooth 4.0 functionality.

ENA's managed Wi-Fi service includes 2.4 GHz and 5 GHz (dual band) coverage at each location.

8.4. Business Continuity/Disaster Recovery

The Bidder will describe any program that they provide to cover replacement of the infrastructure in the event of theft or loss through a catastrophic event. A disaster recovery plan will be developed and implemented by the Provider to ensure that the school's infrastructure is restored by the start of next school day at 7 AM.



Response:

HP agrees with this requirement and shall comply by preparing and implementing a plan, in coordination with the States or school districts to ensure next school day restoration of the provided solution infrastructure following a catastrophic event. This plan shall leverage the prepositioned hot spare devices located at each school, the spare wireless infrastructure components carried by ENA's field service resources, regional deployment depots and the centralized hardware repair depot. Time to restore full service will be directly affected by the extent of loss or damage to the site. Restoration of service will begin as soon as HP is given full access to the site with authority to proceed from the district, assuming the necessary facilities are in full operating condition (e.g. no ongoing construction or repair activity, available power, ground, rack space, etc.) and approved for occupancy.

Additional Business Continuity/Disaster Recovery Planning shall be conducted with HP, our partners, the State as well as the enlisted input from the Local Districts. This Planning shall be documented and contained as a part of the detailed Project Plan.

1. Natural disaster/act of God

Should wireless infrastructure equipment deployed by HP in support of the wireless device initiative be damaged or destroyed by a catastrophic event beyond the control of the State, district or HP, we will work with the district to restore service as soon as possible based on accessibility and safety conditions. HP will work with the State and districts to determine if it would be possible to deploy service at an alternate location until original sites are operational.

2. Loss of Infrastructure

HP expects that the State and districts will secure and protect equipment with the same level of diligence that it would use to protect its own equipment. For equipment that is removed without HP's written permission, stolen or damaged, HP will work with district personnel to replace the component within 24 hours of formal notification of the loss. Lost, stolen or equipment damaged due to negligence will be replaced at the customer's expense.

3. Loss of Individual Systems.

Portable computing devices are the responsibility of the individual they are assigned to. HP will strive to replace lost/stolen equipment within 24 hours. Replacement cost will be the responsibility of the customer. HP's current logistical plan can support the replacement of up to 3% of the deployed portable computing device environment within 24-48 hours (depending on site and weather conditions). Portable computing device losses greater than 3% of deployed environment will require an alternative response plan.

All of the core equipment supporting this initiative are housed in highly reliable facilities and configured in a manner to provide extremely reliable service.

HP will endeavor to resolve a service interruption at a school site as quickly as possible. Should wireless equipment deployed by HP/ENA in support of the wireless device initiative be damaged or destroyed by a catastrophic event, HP will work with the district to restore service at the local level as soon as possible based on current conditions in the building and the safety of our personnel in the area.



8.5. Server Failure

If the solution includes servers, then the solution must provide server redundancy or another fallback strategy in the event of server failure. This will provide continued operation of the servers in the event of server hardware or software failure.

Response:

No local server infrastructure is required as part of this deployment.

8.6. UPS

The Provider must include necessary Uninterruptible Power Supply (UPS) capacity to those parts of the solution where a power loss could cause data loss or corruption, instability or other long-term negative effects on the solution. The solution should be able to be fully-enabled upon restoration of power without reconfiguration or significant intervention. Therefore necessary included servers and key infrastructure devices such as switches and wireless access points shall have a UPS with capacity to allow for those devices to remain operative in the case of a power outage as necessary. This UPS should allow personnel or automated systems enough time to adequately shut down the server(s) or the infrastructure devices to avoid data loss or corruption.

Response:

HP intends to deliver a solution where a power loss will not cause data loss or corruption, instability or other long-term negative effects on the solution. Our solution will be able to be fully-enabled upon restoration of power without reconfiguration or significant intervention. Servers and key infrastructure devices such as wireless controllers, core routing equipment in HP/ENA's POP along with our collaboration solution will all be protected with uninterruptable power supplies and generator backup. A hallmark of our solution is that all key infrastructure is located outside of the school, ensuring resiliency and redundancy in the event of the loss of a single component and as such, it is not necessary for us to provide UPS power at a school location nor will it be required for on-site personnel at a school to shut down any server or infrastructure device provided in the case of power loss. ENA and HP do not intend to place UPS devices on switches and wireless access points located within a school as each of these are solid-state devices and will restore quickly upon restoration of power without any reconfiguration or significant intervention.

8.7. Performance Metrics and Reporting

The Provider must track and record operational Performance and Quality metrics necessary to ensure the successful management of the project. Such performance metrics will be reported monthly, by school as necessary, to the Department's Agreement Administrator. The reporting will include such items as incidents, device and system failure types, downtime, repair turnaround times, trends, remediation needed, unresolved issues, recommended improvements, other factors necessary to ensure a successful project. Bidders should recommend metrics for consideration by the Department.

Response:

HP is partnering with ENA to manage and take first call for the MLTI network needs and will be working with ENA to expand their system capability with their call management system allowing tracking of those tickets thru the depot repair cycle and back to the hot spare shelf.



In addition, HP intends to connect this system to HP's Global Call Handling System allowing for Level II and Level III analysis of deeper routed problems. This will also allow parts replenishment to take place automatically ensuring a ready reserve of parts for the repair depot and the schools.

This service plan counts on user-replaceable hot spare components being available locally at each school for replacement swap when an end user has an issue with their portable computing device. This effectively can bring end users up and running as quickly as they can have it exchanged within the schools daily activity schedule. HP will still have to retrieve and repair the originally units issue through use of the depot repair service as outlined. HP will have to maintain sparing levels to ensure the schools have spares on hand at all times, and in some cases, we may need to quickly ship additional units to the school within 24 hours should the sparing level fall too low.

Our reporting will allow us to manage to the defined metrics listed below:

1. **Metric Description:** Solution availability - 7:00 AM to 3:00 PM, local time excluding state holidays

Required Level of Expectation: 99%

Method of Monitoring: system generated reports to be mutually agreed upon within 60 days of award

Strategy for Correcting Non-Compliance: HP will work with the State to develop a governance system to address non-compliance.

2. **Metric Description:** Solution availability – 6:00 AM to 7:00 AM and 3:00 PM to 10:00 PM, Monday-Friday, excluding state holidays

Required Level of Expectation: 95%

Method of Monitoring: system generated reports to be mutually agreed upon within 60 days of award

Strategy for Correcting Non-Compliance: HP will work with the State to develop a governance system to address non-compliance.

3. **Metric Description:** Upon commencement of deployment a replacement or functioning device will be made available to each participating teacher and student within no more than 24 hour time frame from the point of first reporting an issue or failure

Required Level of Expectation: 100%

Method of Monitoring: system generated reports to be mutually agreed upon within 60 days of award

Strategy for Correcting Non-Compliance: HP will work with the State to develop a governance system to address non-compliance.

HP will have overall ownership of reporting requirements and will consolidate information from the different aspects of the overall plan into one customer report.



9. Functional and Asset Security

9.1. Wireless Security

The solution must protect against eavesdropping and unauthorized access. The solution may include encryption or other techniques to provide this assurance which the local school may turn on or off as local policy indicates. The Bidder must describe how its proposed solution will provide such protections.

Response:

For all HP/ENA managed wireless implementations, HP, through our partner ENA, will by default use WPA2 encryption of all data between the MLTI device and the wireless access point. WPA, otherwise known as Wi-Fi Protected Access, is the current standard for data integrity protection and secure encryption as adopted by the Wi-Fi Alliance, and WPA2 is the latest, most secure implementation of this standard. HP/ENA's managed wireless service is designed to be both secure and flexible, and we can implement wireless security policies that incorporate a variety of WPA authentication mechanisms, including the WPA2 pre-shared key (PSK) protocol known as WPA Personal, the 802.1X authentication (often referred to as WPA Enterprise), and the more recent encryption algorithm called TKIP (also known as Temporal Key Integrity Protocol).

In addition to the encryption of data between clients and the wireless access points, and the various authentication methods HP/ENA can support, HP/ENA can also provide rogue AP detection to identify, and optionally, to eliminate other "rogue" APs that may be introduced to the school WLAN and prevent those APs from successfully allowing MLTI clients to attach. Finally, all management data traffic between the locally placed wireless access points and our cloud-based controller infrastructure will be SSL encrypted.

9.2. Authorization Control

Security must allow access to authorized users only – to only those resources, files, applications, and services that they are authorized to use. Security will be definable by an administrator both on an individual user basis and by class of user (teachers, students, parents, administrators, etc.). Identification of a user must be unique to each individual.

Operating systems and the application software must have the ability to be restricted or locked down in an appropriate way that prevents inadvertent or deliberate changes in key settings and, thereby, reduces support requirements.

Response:

ENA will allow access to the wireless network via pre-shared WPA2 key embedded in the base image of the portable computing device. Upon first access to the network, users will be in a "walled garden" environment where basic information about the user will be validated and mapped to the MAC address of the device to facilitate troubleshooting. Devices will be re-presented the walled garden authorization tool no more than once every 90 days, upon change of device or every June 30, whichever comes first. Guest access will be provided through a separate wireless network name deployed using the same infrastructure and new users will be permitted provided that there are adequate remaining concurrent guest users available in the building.



HP's solution shall comply with this requirement using the operating system and/or BIOS. Access will be controlled at the user level and shall incorporate role based access entitlements to defined classes of applications and configuration privileges. The Technology Administrator at the district/school shall have rights to administer and manage the policies used by these systems to control device authorization.

9.3. Anti-virus Protection

The solution will include reasonable and sufficient anti-virus and malware protection in the device, in any servers and in any other necessary components. Such protection must include timely updates. The Provider will eradicate viruses or related infections that infiltrate the protections provided and will assist schools in returning the devices/system to its normal, stable state. Ideally, the anti-virus protection should not noticeably degrade overall portable computing device performance.

Response:

The Microsoft Office Education Desktop SKU - Part Number 2UJ-00001 license includes Endpoint Protection which provides round the clock protection against virus, spyware and all malware. This feature enables real-time protection against potential threats, automatic scheduled scans of the hard drive and integration with web browsers for download protection. Any threat to a portable computing device's security, such as a virus or Trojan intrusion, is handled according to preset policy, normally by quarantine and/or deletion of suspect files. All such remediation actions are fully automated and require no user interaction. Local users will be notified (via a "pop up message) of any virus intrusion, enabling the user to identify what action on their part triggered the infection.

Such intrusion events are also reported to the cloud-based LabTech where DE staff will monitor for localized outbreaks and take proactive steps if required to contain any outbreak.

Signature files, used by Endpoint Protection to recognize and remediate threats, are updated every 8 hours and the most recent signatures will be deployed to all managed portable computing devices on a regular basis.

Policies and procedures to handle individual and large scale intrusions/threats can be customized on a per-District basis. These policies and procedures will form part of the data-gathering exercise during discussions with each district.

9.4. Backups

In order to protect the solution from data loss or corruption, backup and recovery capabilities are required to permit regular, periodic backup of the storage device(s), logical drives, directories, administrative and configuration data, application software, and user files and to restore all of the above on demand. Backup protection should include any server-based parts of the solution necessary to restore the solution in the event of data loss or corruption. The ability to perform automatic scheduling of backup functions is desired. This should include automatic backup from the portable computing device to a server or some other facility on a daily basis to prevent data loss. The Bidder must describe the capacity and features of its backup solution, and which data would be recoverable by the user, by a school administrator, or by provider.



Response:

HP's understanding of the design, and our implementation thereof, is that students will not maintain data files on their local devices—however our backup assumption is that files will be backed up in the ClassLink LaunchPad cloud desktop solution.

HP will provide training to teachers on the use of the ClassLink online storage tool as outlined in the detailed Professional Development Plan. Students will also have access to all online training options which include embedded training videos and robo help. In addition, customized webinars shall be developed and archived for students to access on demand.

HP will not backup, nor maintain a mechanism for personal files, outside of classroom work, to be backed up to a remote location. No files or other information which violates any digital copyright of legal owner's files shall be stored or otherwise maintained on HP owned devices. The State and Districts shall own sole responsibility to ensure all content stored on the devices supplied by HP under this initiative is appropriate and legal.

Due to the variety of personal files, HP and our partners will maintain no responsibility for, not shall HP provide backup for these files. The students shall own all responsibility for backing up and maintaining music, photos and other personal files. The students will be able to use a student supplied USB thumb drive to copy their files to as a backup and will be able to place them back onto their device as needed.

The proposed ClassLink solution provides 3GB of personal locker disk space for students and teachers to store any personally developed school content or work and will also integrate with locally-deployed servers and disk space dedicated to students and teachers to extend the solution to almost limitless capacity. ENA and HP does not expect to be able to restore any locally stored personally developed content or work from a portable computing device that experiences a significant issue or is required to be re-imaged in concert with the start of the new school year or due to maintenance.

Data deleted by the end user or administrator is recoverable for one year in the web interface without the selection of archiving feature within the ClassLink platform, in which case data deleted by the end user can then be recovered for the retention period determined by the user's organization for the archive. The archive feature provides a true archive as required by e-Discovery and public records laws with complete versioning and the inability for school, district or state personnel to alter.

9.5. Warranty, Insurance, Damage, and Theft

9.5.1. Warranty

Portable computing devices and included attachments (power supply, carrying case, etc.) will need to be replaced occasionally for a variety of reasons that include defects, normal wear and tear, and accidents. Defective equipment will be replaced or repaired by the Provider at no cost. Consistent with the requirements of this Section of the RFP, the Provider shall warranty against normal wear and tear and ensure the delivery of all services for the term of the agreement. Barring extraordinary circumstances such as are listed in the Force Majeure provision of the *NASPO Standard Terms and Conditions* (see **Appendix D**), the Provider will be responsible to ensure that the devices and other solution equipment are available per the specifications in the Performance and Quality provisions of this RFP.



Notwithstanding the cause of any loss, the Provider must provide replacement units in a timely manner and at a reasonable cost for the term of the Agreement.

Response:

HP is including managed services which cover the portable computing device for four years. This custom support and maintenance covers parts and labor in support of portable device under normal wear as well as coverage for defective units. To meet availability and timely replacement requirements this custom support is being accomplished by the use of "hot-spare replacement units" and a return to repair depot repair strategy. A hot-spare is defined as a complete unit. These hot-spare units will be supplied in the same configuration as those ordered. End user replaceable parts like keyboard, mouse, battery and power bricks will also be available to the school districts.

9.5.2. Insurance and Damage

The Provider shall assume the risk of loss or damage (e.g., fire, flood, theft, accident, etc.) of the equipment provided, except that each local school unit shall be responsible for any replacement or repair costs due to the negligent or intentional act of the school, a teacher, a student. In the case of individual fault, the local school unit will determine as a matter of local policy whether any or all such local costs should be borne by the individual teacher, student, or parent(s). These local costs shall not be counted as part of the direct or indirect bid price defined in **PART V PROPOSAL EVALUATION AND SELECTION**.

As part of its strategy to meet these provisions of this RFP, the Provider may elect to provide a percentage (specify) of overage or surplus stock of equipment within schools or other depot sites, or insure against all other risks of loss or damage through some other means such as commercial insurance. Regardless of the method proposed by the Bidder, the Bidder will describe how it has integrated its protection plan into its overall support plans. All costs associated with the Provider's proposed protection plan shall be counted as part of its bid price and should be incorporated into the Bidder's annual cost proposal defined in **PART V PROPOSAL EVALUATION AND SELECTION**.

Response:

Risk of loss will pass to the purchasing or leasing entity upon delivery to the "ship to" location specified in the order. As specified in the RFP instructions, no additional costs have been included in the bid price to cover units damaged due to negligent or intentional acts. However, HP does take exception to the assumed risk of loss due to accidental damage or theft. HP has provided in section 9.5.3, under No-Fault Protection, highly recommended service options to cover accidental damage and preventive steps to help deter theft. The 4-year warranty parts and labor coverage does not include cracked screens, cases or spills due to accidental handling, which is industry standard. See optional coverage for accidental damage and theft in Section 9.5.3.

HP also takes exception to covering any theft of computing devices. Each participating State, School District, and School maintains insurance coverage which should protect against loss and replacement of school owned property (including the portable computing devices which are the subject of the RFP). HP has provided its Certificate of Insurance showing coverage for its responsibility for covered property damage.



Further, HP has provided alternatives through which each participating party can protect itself from damage not covered by HP as reflected in HP's Certificate of Insurance.

9.5.3. No-Fault Protection

The Bidder must provide an optional price schedule for an "enhanced" agreement for no-fault repair and replacement that local school units may purchase at their option and at their own expense from the Provider. The cost of this enhanced, no-fault warranty will not be included in the bid price evaluation as defined in **PART V PROPOSAL EVALUATION AND SELECTION**. Bidders should recognize that this enhanced protection only needs to provide protection against categories of loss or damage that are not covered in **Section 9.5.2. Insurance and Damage**.

Response:

An existing program that HP strongly recommends for each State, district or individual school to purchase is the optional one-Year Accidental Damage Protection (ADP) Care Pack coverage, product SKU UK711E, discounted to \$22.01 per unit for one-year of ADP coverage. Note that HP also offers 2, 3, and 4 year ADP options as well.

This one-year option is an exceptional offer. It is the experience of HP that most accidental damage, outside of standard use warranty coverage, will occur in the first year when students are learning how to handle, store, carry and care for their new portable computing devices. This one-year ADP Care Pack only applies to the first year the unit is under warranty and cannot be purchased after the first thirty days the product has shipped. The ADP Care Pack is registered to a specific portable computing device serial number for the entire first year. HP's service description for Accidental Damage Protection (ADP) is listed below.

In addition to the standard commercially available ADP offering HP has developed a custom-enhanced agreement for no-fault whole unit replacement of portable computing devices for other school districts and would be happy to enter into further discussions with the State. One customized plausible approach would have the State or individual districts pre-purchase, in batches of ten incidents, whole unit no-fault replacement service events. The service events are independent of the unit serial number and can be applied as needed over the life of the unit. Pricing for this custom no-fault whole unit replacement offering is included in Appendix B, Cost Proposal Form, Table 4.

HP's Service Description for Accidental Damage Protection (ADP)

For eligible products, specific service levels may be offered with accidental damage from handling protection. Where the accidental damage protection service feature applies, the customer receives protection against accidental damage from handling to the covered hardware product as part of this service.

Accidental damage from handling is defined as physical damage to a product caused by or resulting from a sudden and unforeseen incident, provided such damage occurred in the course of regular use. Covered perils include non-intentional liquid spills in or on the unit, drops, falls, and electrical surge. Covered damage also includes damaged or broken liquid crystal displays (LCDs), and broken parts.

The accidental damage protection service feature does not cover the following:



- Maintenance, repair, or replacement necessitated by loss or damage resulting from any cause other than normal use, storage and operation of the product in accordance with the manufacturer's specifications and owner's manual
- Any equipment relocated outside the country of purchase and not covered by an HP Care Pack service that includes travel accidental damage protection
- Theft, loss, mysterious disappearance, or misplacement
- Data loss or corruption; business interruptions
- Fraud (including, but not limited to, incorrect, misleading, erroneous, or incomplete disclosure of how the equipment was damaged to the customer's adjudicator, the servicer or HP)
- Accidental or other damage to the product that is cosmetic in nature, meaning damage that does not impact operation and functioning of the computer
- Computer monitor screen imperfections, including but not limited to 'burn-in' and missing pixels, caused by normal use and operation of the product
- Damage to product(s) whose serial numbers are removed or altered
- Damage or equipment failure that is covered by manufacturer's warranty, recall, or factory bulletins
- Damage caused during the customer's shipment of the covered product to or from another location
- Damage to hardware, software, media, data, etc., stemming from causes including, but not limited to viruses, application programs, network programs, upgrades, formatting of any kind, databases, files, drivers, source code, object code, proprietary data, any support, configuration, installation, or reinstallation of any software or data; or use of damaged or defective media
- Any and all pre-existing conditions that occurred (i.e., took place) prior to the date of purchase of the HP Care Pack service
- Product obsolescence

Eligibility for purchase of the accidental damage protection (ADP) service feature requires the product to be covered by a factory warranty or a warranty extension service with coverage duration equal to or longer than the accidental damage protection service.

Limitations to the accidental damage protection service:

- For HP business portable computing device products, HP does not limit the number of qualified accidental damage from handling claims for the duration of the HP Care Pack service agreement; however, accidental damage claim rates for each HP product model and Customer account are constantly monitored; HP reserves the right to physically audit and/or collaborate with the customer if claim rates are high.
- For products other than business portable computing devices, accidental damage protection coverage is limited to one claim per product per 12-month period commencing from the HP Care Pack service start date. Once the specified limit is reached, the cost of repair for any additional claims will be charged on a time-and-materials basis, but all other aspects of the HP Care Pack service purchased will remain in effect unless specifically documented otherwise in the country of purchase. For those customers with a history of significantly high claims, HP also reserves the right to deny acceptance of requests to purchase the accidental damage protection service feature.



9.5.4. Theft Deterrent

The portable computing device provided must incorporate security features to deter theft. This should include an unavoidable log-in or greeting, or similar process, that identifies the program and/or owner of the device. These security features must be operative regardless of the physical environment in which the portable computing devices are found. The portable computing devices proposed will be used by students and teachers in the classroom, will be transported by students and teachers between school and home, and used in the home as required. Securing the computer by physical means will not be practical as the only security measure. The Provider is encouraged to include external physical markings or property tags of some type that provide a unique, visual appearance to identify the device as part of this program. The Bidder will provide a detailed description of security features on the proposed devices to deter theft.

Each Bidder must describe here how it proposes to satisfy the requirements of this section. The Bidder's description must make clear what it will provide and what it would require of the Department and the schools.

Response:

The proposed solution includes features to deter theft as follows:

1. A logon splash screen shall be configured using local policy in the same fashion as Group Policy. Such policy shall be set in the base OS image. The required message text and layout needs to be provided prior to master image creation.
2. Each device shall be labeled with a sticker that states the device is "property of the State of Maine" (or other appropriate information) and that the device has been equipped with anti-theft software.
3. HP will also have the ability, through the help desk and the LabTech agent, to remotely wipe the entire MLTI device should it be lost or stolen.

As an option, HP can include Computrace by Absolute Software on devices leased or purchased under this program. Offering is included in Appendix B, Cost Proposal Form, Table 4.

Computrace for endpoint security is used by hundreds of school districts across the nation to centrally track, locate, and secure IT assets on and off the network within a single cloud-based console. Asset inventory cycles are reduced from days to minutes. Alerts are sent as soon as suspicious behavior is detected. Computrace provides a theft recovery service - Guaranteed.

The Computrace persistence module is embedded into the firmware of portable computing devices at the factory. Once the Computrace Agent is installed and activated, customers enjoy a level of persistence that is virtually tamper-proof, providing them with a trusted lifeline to each device in their deployment.

Furthermore, Absolute Software will provide stickers for every license purchased to mark the devices as being protected by Computrace to help deter theft. To cover the requirement for an unavoidable log-in greeting, HP will work with school IT administrators to set a splash screen using group policy in Active Directory, as an example, that notifies a user upon login of the ability to track the machine using Computrace persistent technology.



Managed Theft Recovery (Optional Feature and Cost)

The Absolute Theft Recovery Team has seen the successful recovery of tens of thousands of stolen computers. Comprised of former police officers and seasoned law professionals, the Theft Recovery Team works closely with police and law enforcement agencies to ensure that criminals are identified and portable computing devices are recovered.

Once a stolen computer connects to the internet, the Computrace Agent silently sends location and other information to the Absolute Theft Recovery Team. With the customer's approval, the Team forensically mines the computer using a variety of procedures, including key captures, registry and file scanning, geo-location, and other investigative techniques. These procedures allow the team to gather evidence and determine who has the computer and how it is being used. Extracted evidence is then provided to police, who use the information to obtain search warrants or subpoenas and perform the physical recovery. The stolen computer is returned to the school directly, and no further involvement beyond reporting the theft is required. As customer privacy is our utmost concern, Absolute Forensics Tools are only deployed after a police report has been created and only with the customer's approval.

Below are additional links to examples of how Managed Theft Recovery works in the Education sector:

<http://www.absolute.com/Shared/Datasheets/CT-K12-SS-E.sflb.ashx>

<http://www.absolute.com/Shared/Datasheets/CT-EDU-SS-E.sflb.ashx>

Service Guarantee

If a computer or tablet protected with the Computrace Service Guarantee is stolen, Computrace will recover it or you may be eligible to receive up to \$1000 per computer or up to \$400 per tablet. Certain conditions apply. For more details read our Service Agreement and our Service Guarantee FAQ:

<http://www.absolute.com/en/company/legal/agreements.aspx>

http://www.absolute.com/en/support/faq/service_guarantee.aspx

Asset Administration

Collect incredibly accurate and comprehensive information from each device. Then create customized policies and alerts to be notified as soon as an unauthorized change is detected. Asset information includes user identification, physical location, and the installation of software/hardware that may not comply with government and corporate regulations.

Data and Device Security

Remotely delete sensitive data on missing computers and produce an audit log of the deleted files to prove the data was removed from the device. Freeze a computer and display a custom message to the user instructing them to comply with specific requests for action. Access and retrieve files from a device regardless of its location. Create encrypted volumes to protect data.

Geo-technology

Use the physical location of a device as a security measure. Track assets on an internet map using GPS or Wi-Fi technology including current and historical locations.



Build predefined areas (geo-fences) to contain a device and receive an alert if it strays or if any other designated condition occurs. If a device is not where it should be, investigate and determine if further action is required.

Use GPS or Wi-Fi technology to track your assets on an internet map.

Computrace provides school districts across the country with the ability to track, manage, and secure computer and tablet devices, especially in support of 1:1 programs. The importance of firmware persistence cannot be overstated. It provides a consistent connection to each device, including a managed theft recovery service that is guaranteed so schools can replace unrecoverable devices with minimal impact to their budget.

9.5.4.1. Maine Theft/Loss data

Maine's current asset pool contains nearly 75,000 notebook computers, initially deployed to students and teachers in the fall of 2009. As of October 1, 2013, a total of 418 devices have been reported stolen or lost. This represents an average of 0.2% loss per year due to theft or loss.

Response:

HP acknowledges this percentage, however takes exception to covering loss due to theft or accidental damage.

9.6. **Asset Management**

The Provider will include an online asset management system. The asset management system should allow the Department and participating schools to view details about all assets (e.g. the portable digital device, network switches, servers, wireless access points, etc.) supplied by the Provider's solution including details such as site location, device assignment, device details and status (e.g. assigned to a user, out for repair, etc). The asset management system should allow querying and reporting capabilities. The asset management system should include necessary security precautions to insure that only authorized personnel access the information contained within the system. In addition, the asset management system should allow for multiple levels of authorized users to allow for, at the minimum, site-, district-, and state-level management. The Bidder must describe all of the data elements that will be included in the online asset management solution, and which data elements would be modifiable for each level of access to provide management functionality while maintaining data security, and which data elements would be dynamic and updated automatically.

Response:

HP, through our partners ENA and Dynamic Edge, have an existing asset management system that will be extended to provide local school technology staff the ability to associate assets to school district specific ID's, and also provides the ability to disassociate assets from the database. This online asset management system shall be web enabled with a database that allows the districts and local school units to ascertain device site location, Device assignment, Device details and status (e.g. assigned to a user, out for repair). The asset management system shall allow querying and reporting capabilities, and shall include necessary security precautions to ensure that only authorized personnel access the information contained within the system. Each district/school shall also be able to view assets deployed to its site(s).



In addition, schools shall be able to utilize the asset manager to assign portable computing devices to specific students or teachers. Inventories will be made available to each site regarding that site's equipment at installation time as part of the installation and acceptance process.

The database shall be secured behind a firewall and will require usernames and passwords to provide the appropriate level of access to State, district users and HP users appropriately. The system will utilize roles and claims to ensure that only the appropriate information is presented to each user.

All devices will include an asset tag sticker and will be assigned to each end user.

The asset tracking system shall integrate with the support ticketing systems described in this proposal to help maintain service flows and processes. All RMA and device repairs will be stored within the asset tracking system to ensure there is one repository for users to view all information related to the assets and associations to users.

Reports shall be developed for the appropriate level of drill down capability within the system based on a user's role to display the information to the users on a real time basis.

The basic tracking of assets upon deployment within the asset database will start day one.

9.6.1. Site and District Management

It is not uncommon for school districts to have more than one participating school. Each site should be able to view assets deployed to the site. In addition, schools should be able to utilize the asset manager to assign portable devices to specific students or teachers. Sites and districts should be able to perform management tasks against one, some, or all of its assigned assets. The most common task performed to some or all assets is the assignment of an asset to an individual by entering an ID or other unique identifier into a field reserved for local inventory management. The solution should include a method for a site to import data either directly from the school's student information system or from a simple data file (i.e. txt, csv, etc.) in order to update or overwrite site modifiable fields. Inventories will be made available to each site regarding that site's equipment at installation time as part of the installation and acceptance process.

Response:

The HP asset management system will allow school personnel to assign portable devices to specific students and/or teachers. Sites and districts will be able to perform management tasks against one, some or all of its assigned assets. We will extend our existing asset management system to permit a site to import data in specified formats from a simple data file in order to update or overwrite site modifiable fields. Site inventory information will be available to each site as part of the installation and acceptance process.

9.6.2. Transfers

It is common for students (and even teachers) to transfer from one participating site to another. The asset management solution must provide a method to easily transfer assignments of assets from one site to another. This method must include active acknowledgement of receipt of assets at a receiving site by an authorized user because the Department requires that districts accept certain fiscal responsibilities related to those assets it is assigned, based on the asset management data.



Response:

The asset database will be flexible to allow transfers and reassignments and will include an active acknowledgement of receipt of assets at a receiving site by an authorized user in order to permit the Department's fiscal responsibilities to be acknowledged by the receiving site.

9.6.2.1. Maine school transfers

As a matter of practice, when students in grades 7-8 transfer between participating sites, the device follows the student. The same is true for teachers in grades 7-12 since the Department covers the annual seat cost for all 7-8 students and 7-12 teachers. However, for students at participating schools in grades K-6 and 9-12, the local school covers the annual seat cost, and as a matter of practice, when students transfer out of those schools, the school retains the device.

Response:

HP acknowledges and understands.

9.6.3. Replacements

The Department expects that for a variety of reasons, a device may require replacement. Bidders must describe how it will provide replacement devices for the term of the Agreement. Replacement devices must be the same as the original device or functionally equivalent and similar enough so that it does not interfere with the intended educational use nor any of the integrated support methods and protocols established by the Bidder to meet the requirements of this RFP.

The online asset management system must include a method that allows schools to request replacement devices. The solution must include the capacity to maintain records of these transactions and an internal workflow that provides the messaging capacity to resolve questions related to a request in order to complete a replacement request. The method must include the capacity to categorize replacement requests (i.e. stolen, dropped, liquid damaged, etc.). Newly introduced devices must be tracked in the asset management system like any other asset, and the introduction of associated device data is the responsibility of the Bidder.

Response:

The online asset management system will allow users to process and receive a replacement device. The replacement will be either the original or a functionally-equivalent and similar device to not interfere with the intended educational use or support methods and protocols established by HP.

Records of all transactions will be recorded in the asset management system along with the capabilities for an internal workflow and messaging to resolve questions related to a request. Categories of replacement requests will be included and all newly introduced devices will be tracked in the asset management system like any other asset.



9.6.4. Asset History

The online asset management system will provide a comprehensive history for each asset that includes assignment history (i.e. a device may be assigned to more than one student over the course of multiple years or may be transferred from one school to another), device data changes (i.e. in the current program, ethernet addresses (MAC) are changed when logic boards are replaced in devices. This unique address must be updated in the asset management solution), repair history, etc. The asset history for any individual asset must be easily accessible to authorized users.

Response:

This online asset management system shall be web-enabled with a database that allows the State and local school units to ascertain device site location, device assignment, Device details and status (e.g. assigned to a user, out for repair, etc.). The asset management system shall allow querying and reporting capabilities, and shall include necessary security precautions to ensure that only authorized personnel access the information contained within the system. Each district/school shall also be able to view assets deployed to its site(s). In addition, schools shall be able to utilize the asset manager to assign portable computing devices to specific students or teachers. Inventories will be made available to each site regarding that site's equipment at installation time as part of the installation and acceptance process.

The database shall be secured behind a firewall and will include an asset database server that will trust the State and/or District users and HP users appropriately. The system will utilize roles and claims to ensure that only the appropriate information is presented to each user.

9.6.5. School Information

Basic demographic information about each site must be maintained in the asset management solution. This must include contact information for key individuals at each site including but not limited to school administrators and technology administrators. This information must be easily accessible to authorized users.

Response:

Basic demographic information about each site will be maintained in the asset management system including contact information for key individuals at each site in an easy-to-access and use format.

9.6.6. Reporting

The online asset management system must include reporting functionality. Reports should be downloadable, and when appropriate, available in common tabular formats for reuse of the data. At the minimum, the system must include reports of asset inventory by type (user device, network assets, etc.), contact information, asset transfers, and replacement devices. Reports must only include data viewable to the authorization level of the user, and reports must be able to be produced against a site, district, or the entire state inventory.

The intent of providing reporting to both site, districts, and the Department are to facilitate better management of the inventory of assets including trend analysis related to topics like transfers, replacements, or repairs.



The Provider should describe other functionality included in the asset management system that will facilitate successful management of the project at both a Department and site level.

Response:

The asset management system will include reporting functionality. Reports will be downloadable in CSV format and the system will include requested reports of asset inventory by type, contact information, asset transfers and replacement/hot spare devices. Access to reports will be based on the authorization level of the user and can be provided against a site, district or the entire state inventory.

10. Professional Development, Curriculum Integration, and Consultation

The Department believes that professional development for educators, education leaders, and technology support personnel are vitally important to the success of a 1:1 program as described in this RFP.

The Provider will become a partner to the Department of Education, and all professional development activities will be developed in coordination with the Department. The Provider will develop and deliver professional development materials and opportunities under the direct supervision of the Department of Education. While the Department recognizes that good teaching and learning practices exist with or without technology, it also believes that the presence of personal digital devices in classrooms and outside of classrooms necessarily changes the teaching and learning landscape. As such, the Department seeks a Provider that can support effective and innovative teaching and learning processes that without this foundation could not exist.

The MLTI has adopted and promoted two models to guide teacher practice and the integration of technology into instruction and learning. These models are Technological, Pedagogical, Content Knowledge (TPCK) by Drs. Punya Mishra and Matthew Koehler (<http://www.tpck.org>) and Substitution, Augmentation, Modification, Redefinition (SAMR) by Dr. Ruben Puentedura (<http://www.mlti.org/samr> and <http://www.hippasus.com/rrpweblog/>). These models should act as a guide in the development and implementation of all professional development materials and opportunities.

Response:

HP has seen firsthand how critical effective professional development is in making the difference between a large technology purchase and a transformational instructional technology initiative. No greater dividend can emerge from a 1:1 program than the investment the institution makes in the professional development of its instructional, support and administrative staffs. Accordingly, HP understands and agrees that professional development for educators, leaders and technology support personnel is vitally important to a successful 1:1 program that institutes a successful wireless student centered, digital learning environment and has developed a Professional Development Plan (PDP) that delivers the highest quality, research-based offerings.

There is little argument that technology-empowered learning is a requirement for any education institution to be effective in preparing students for work and life in the 21st Century. Supplying students and teachers with the technology tools is merely the first step. The real focus should not be on the technology but more on the paradigm shift related to how instruction is delivered by effectively integrating the technology into the learning process.



HP's PDP is a comprehensive approach focused on enabling educators, leaders and technology support personnel to make that paradigm shift and to engage students and encourage them to take responsibility for their own learning.

This PDP is designed in a way that each participating state and school district can personalize their professional development program to meet the adoption and implementation requirements of their 1:1 program. While HP has proposed an overall professional development plan specifically to address transforming education and the classroom experience with 1:1 implementations, we understand that all professional development activities will be coordinated and fine-tuned for Tier 1 and Tier 2 participants with the Department of Education from each participating state and with school district leadership for Tier 3 participants, therefore we reserve the right to make changes to the plan proposed in this response in cooperation with MLTI participants to ensure that we meet their educational outcome goals. Please see Working with the Department of Education later in this section for the additional dedicated resources. HP is offering to work with Tier 1 and Tier 2 states with minimum qualifying purchases as defined in Table 31 in the Building a Comprehensive Plan section.









Professional Development Partners

HP's PDP leverages the skills and experience of seasoned professional development partners, with a long-term commitment to education, to construct a comprehensive PDP that includes state-level consulting, leader-led workshops, train-the-trainer workshops, online facilitator-led classes, self-paced classes, video tutorials, webinars, and a robust selection of online resources to meet the needs and learning styles of educator and leader learners and Tier commitments. As described later in this section, this approach addresses each of the professional development challenges outlined in the RFP.

A brief summary of the professional development partners and their offerings follow. The graphic below illustrates each partner's contribution to the professional development plan ultimately delivering a comprehensive program meeting all of the MLTI professional development objectives and serving all of the MLTI identified professional development recipients. Please see Sections 10.2.1 Educator Professional Development, 10.2.2 Leadership Professional Development, 10.2.3 Technical Professional Development and HP Appendix D—Professional Development Partners and Programs for detailed information about the programs each will offer.



Table 30. HP's Professional Development Partners.

PROFESSIONAL DEVELOPMENT PARTNER	STATE DOE	TRANSITION SUPPORT	EDUCATORS PD	LEADERS PD	TECHNICAL PD
	✓	✓			✓
	✓	✓	✓	✓	✓
		✓	✓	✓	
		✓	✓	✓	✓
			✓	✓	✓
			✓	✓	
			✓	✓	
	✓	✓	✓	✓	✓



HP will provide device orientation and operation training content primarily targeted for district technology directors but also available to teachers and administrators through the regional workshops and a variety of online webinars and video training vignettes.

Microsoft will contribute a broad spectrum of professional development content for participating states, educators and leaders in the form of online self-paced classes, regional train-the-trainer workshops, state-level Department of Education expert advisory consultations and self-assessment tools to help educators and leaders connect, collaborate, create and share so that students can realize their greatest potential.



Intel will provide comprehensive professional development resources and content for educators, leaders and technology support personnel in the form of regional train-the-trainer workshops, online leader-facilitated classes and self-paced classes which incorporate elements from the Intel Teach and Intel Transforming Learning (with 1:1) course offerings. The combination of these two programs can create a sustained teacher professional development offering supporting schools for their implementation of 1:1 learning. The programs encourage and support the development of professional learning communities.



McREL will provide professional development for both mentor teachers and leaders based on McREL's research-based *Using Technology with Classroom Instruction That Works* publication and the Balanced Leadership Framework. These interconnected training sessions, with support from leaders, help teachers of all grade levels meaningfully integrate the nine categories of instructional strategies for increasing student achievement with technology to manage change, develop purposeful communities and use technology as a transformative tool for instruction. Taken together, these two programs provide mentor teachers and leaders with the necessary training to effectively integrate technology into instruction to provide transformative opportunities for students.



Atomic Learning is the Internet-based technology training solution of choice for nearly 27,000 schools, colleges and universities worldwide. Atomic Learning will provide two of its most popular and best suited solutions for the Multi-State Learning Technology

Initiative (MLTI) consisting of **Atomic Integrate and Atomic Mobilize**. Atomic Integrate is Atomic Learning's signature solution providing training and integration on software applications. Atomic Mobilize provides professional development necessary to plan, implement, and revitalize successful initiatives that bring portable technology and learning together.

Common Sense Media proposes to continue its highly successful state wide Digital Literacy and Citizenship program model currently implemented in Maine, where over 75% of schools are using their resources. Doing so will empower students



throughout the state to think critically, behave safely, and participate responsibly in our digital world so that they can harness the full potential of technology for learning.



ClassLink LaunchPad™ is an intuitive, easy-to-use virtual desktop that gives students and teachers seamless access to their file storage, backup and individualized learning environments from their HP-provided MLTI device or any computer in the school, community or from home. ClassLink will provide online leader-facilitated System Overview training for technology administrators and remote train-the-trainer turnkey professional development on

LaunchPad. ClassLink will also provide the platform to launch and authenticate the online professional development programs offered with the HP PDP.

ENA provides connectivity, communication and collaboration services to the K-12 community nationwide including five statewide education networks and 550 school districts. Working in collaboration with HP, ENA will lead and coordinate the overall PDP execution. ENA will provide project management services to manage the professional development partners.



Methodology

The HP PDP for educators and leaders focuses on three crucial elements:

1. Great Teachers and Leaders – Consistent with Maine's Education Strategic Plan, HP's PDP is designed to improve educator and leader instructional and administrative effectiveness in a 1:1 environment and encourage communities of practice for continuous improvement.



2. Capacity Building – In order to ensure technology is integrated with effective teaching to ultimately achieve transformative second-order change, building capacity at both the state and local levels is key to success.
3. Delivery Options – In order to meet different learning styles as well as mitigate the challenges identified in the RFP and noted from other 1:1 implementations, HP and its partners have developed a full suite of professional development offerings with varied delivery options (summer institutes, leader-led workshops, online self-paced, virtual instruction, webinars, video tutorials, etc.) to meet every need.

Professional Development Planning Process

1. State-level Planning and Analysis
 - Schedule a kick-off planning meeting with the Professional Development Project Manager (for qualifying Tier 1 and Tier 2 states)
 - Consult with selected Subject Matter Experts, currently Dr. Chris Dede or Dr. Punya Mishra (for qualifying Tier 1 and Tier 2 states)
 - Consult with Professional Development Specialists (for qualifying Tier 1 and Tier 2 states)
2. Build a Plan
 - Establish Goals and Objectives
 - Survey HP MLTI participants to assess technology readiness and needs
 - Partners in Learning School Research – survey for school level technology use and needs
 - Teaching with Technology – survey and assessment for needs by individuals
 - Select professional development options
 - Coordinate delivery implementation with Project Manager and Professional Development Specialist (for qualifying Tier 1 and Tier 2 states)
3. Identify Workshop Attendees
 - Train-the Trainer Workshops
 - Establish regional teacher trainer cadres
 - Leader-Led Workshops
 - Identify mentor educator teams
 - Identify innovation leader teams
4. Professional Development Year 1 Rollout
5. Evaluation
 - Year 1 Review
 - Year 2 Planning
 - Repeat for subsequent years

Key components of the HP PDP include:

1. The delivery of professional development through a blended model using both face-to-face and online methods.
2. Sustainability and capacity through the thoughtful variety and depth of professional development offerings.
 - A very high level of train-the-trainer professional development making it extremely likely for a professionally trained mentor expert to be available at a local level building strong capacity into the plan.



- Ongoing professional development over the four years supporting sustainability.
 - A wealth of online resources that can be used at any time to expand the educator's comfort, knowledge and skills in a 1:1 environment providing for both ongoing capacity and sustainability.
3. Development of regional and state networks of support through professional learning communities (PLCs) which will connect educators so they may collaborate, share and learn from each other. Microsoft provides the Microsoft Partners in Learning Network PLC and Intel provides the Intel Engage PLC.

Delivery Modes

HP understands that educator and leader adoption of technology and skill levels may vary widely especially in the effective use of technology for instruction, transforming learning and engaging students. One or two options may not meet the needs of all educators and leaders within a state so HP has carefully selected a robust variety of professional development offerings. These offerings not only meet the learning needs of novice to experienced technology users but also provide a selection of professional development opportunities to ensure sustainability and support expanding various educator and leader capabilities around effective instruction for teaching and learning in a 1:1 environment.

Figure 3. Professional Development Delivery Modes



Working with the Department of Education

HP and its professional development partners recognize the importance of working in partnership with the Department of Education (DOE) in each qualifying Tier 1 and Tier 2 state to develop a professional development program that meets the unique needs of each state.

In order to successfully design a customized state program under the direct supervision of the DOE which fully utilizes the professional development resources offered, HP and its partners have provided the following specific resources to Tier 1 and Tier 2 participating state leaders based on qualifying purchases of 10,000 HP units or more:

Consulting with Subject Matter Experts

In collaboration with Microsoft, HP is offering state-level consulting with recognized leaders such as **Professor Punya Mishra** and **Professor Chris Dede**. Each of these nationally-recognized and authoritative education leaders offers tremendous experience as well as research-based knowledge about effective integration of technology with instruction. Once a contract is awarded, recognized leaders such as these will work with each Tier 1 and Tier 2 state with qualifying levels of purchases to assist them in formalizing their PDP.

- **Professor Punya Mishra** – Dr. Punya Mishra is professor of Educational Technology & Educational Psychology at Michigan State University where he directs the Master of Arts in Educational Technology, Program. He is former chair of the Innovation and Technology Committee of the American Association of Colleges of Teacher Education, as well as co-chair of the 2011 annual conference of the Society of Information Technology in Teacher Education. His research has focused on the role of technology in teaching, teacher knowledge, creativity and design. The Technological Pedagogical Content Knowledge (TPACK) Framework for teacher knowledge for technology integration (co-developed with Dr. Matthew J. Koehler), has been described as being “the most significant advancement in the area of technology integration in the past 25 years.” In addition to his TPACK knowledge, Dr. Punya Mishra has knowledge on creativity and 21st century skills as connected to content knowledge and has extensive experience in designing online environments for teacher professional development. His vita is included in HP Appendix D.
- **Professor Chris Dede** – Dr. Chris Dede is the Timothy E. Wirth Professor in Learning Technologies at Harvard’s Graduate School of Education. From 2001-2004, he also served as Chair of the Learning & Teaching department in the School. His research interests span emerging technologies for learning, educational policy, and leadership in educational innovation. He co-edited *Scaling Up Success: Lessons Learned from Technology-based Educational Improvement*, *Online Professional Development for Teachers: Emerging Models and Methods* and most recently *Digital Teaching Platforms: Customized Classroom learning for Each Student*. Dr. Chris Dede has extensive experience in planning and substantial knowledge about online professional development. His vita is included in HP Appendix D.

Professional Development Specialists

HP, in collaboration with its professional development partners, will identify professional development specialists to work with each Tier 1 and Tier 2 state to coordinate and schedule the leader-led professional development workshops as well as work with the state to assist with the implementation of the PDP. The PDP has multiple partners and programs and HP recognizes that all programs may not be required for all participants. Once a contract is awarded, we will work with each Tier 1 and Tier 2 state with qualifying levels of purchases to assist them in formalizing and scheduling a customized PDP that will meet each state and/or region’s specific professional development needs.



Aligning with MLTI Teacher Practice and Technology Integration Models

HP understands that MLTI has adopted the Substitution, Augmentation, Modification, Redefinition (SAMR) model to provide teacher guidance on how to plan out the integration of technology into their classrooms and what to expect for different levels of technology use and the Technological, Pedagogical, Content Knowledge (TPACK) model that defines what teachers need to know to execute their plans effectively. McREL, Intel, Microsoft and Atomic Learning professional development partners have aligned their workshops and tutorials to these models and some of the Partners in Learning program components offered by Microsoft have been designed under the guidance of Professor Punya Mishra who is one of the co-developers of the TPACK. He is quoted below:

“The TPACK framework has increasingly been a crucial part of the efforts of the broader Microsoft Partners in Learning initiatives. I have been part of the ongoing conversations regarding this. Most specifically, the influence of the TPACK framework can be seen in the Teacher Education Initiative (TIE). I have been a key member of this project which has involved establishing a series of professional development workshop modules for several content areas, developed in collaboration with some of the top teacher educators in the nation. The TPACK framework is the foundation on which these modules are constructed. This emphasis and understanding of the importance of thinking of content, pedagogy and technology in coordination has significant promise in meeting the needs of developing the next generation of teachers and teacher educators who can meet the demands of 21st century learning.”

— Dr. Punya Mishra, Professor and Director
Master's Program in Educational Technology, College of Education
Michigan State University

Annual MLTI Summer Institute for Participating States

As a multi-state initiative, HP recognizes the value of establishing a common venue for sharing best practices and experiences from the MLTI program. Now that the program has expanded beyond Maine and could include eight or possibly more states, logistical issues may inhibit leaders from each state to collaborate on an ongoing basis.

To that end, HP and its partners propose to host annual summer institutes, affording states an opportunity to share experiences and best practices, as well as discuss emerging trends in educational technology. On a rotating basis, HP, Microsoft and Intel will host this event at their headquarters or major operations center (e.g. Palo Alto, CA, Redmond, WA or Herndon, VA) to provide a day-long event to be designed with state leaders from all participating program states.

In addition to discussions and presentations by the member states, this will serve as an annual opportunity to engage in discussions with the partner companies delivering the 1:1 services and professional development. It will also be an opportunity for those companies to showcase the latest technology trends and emerging products, to help member states consider future technology needs as they plan for the years ahead.



Further, provided approval through local state regulations, HP and its partners will work within SLED requirements to ensure compliance with state and local regulations; within those regulations HP and its partners will offer to pay the travel costs for two (2) leaders per state to attend the summer institute. Payments will be limited to \$3000.00 per person which shall include economy class airfare travel. Each state can opt to send up to five (5) additional representatives for the summer institutes at their own expense.

Building a Comprehensive Plan

HP's professional development offering provides a sustainable, comprehensive and cohesive plan that builds capacity to reach the educator, leader and technology administrator stakeholders for the MLTI. The plan has a rich offering of professional development services including state-level services, face-to-face workshops for educators, leaders and technology support personnel, leader-facilitated online classes, online courses, professional learning communities and a broad array of online resources all designed to provide many delivery options to reach the targeted stakeholders.

Table 31. Cumulative Values for Tier 1 and Tier 2 States Participating in this NASPO Agreement

Professional Development Type	Any Quantity	10,000 Units	30,000 Units	70,000 Units
State Level Professional Development				
Professional Development Project Management		Yes	Yes	Yes
Professional Development Specialist		Yes (.25 FTE)	Yes (.50 FTE)	Yes (1.0 FTE)
Subject Matter Expert Consulting such as Dr. Punya Mishra or Dr. Chris Dede (Select One)		3 Days (Each Year)	5 Days (Each Year)	9 Days (Each Year)
Educator Professional Development				
Using Technology with Classroom Instruction that Works for Mentor Educators		4 Workshops* (3 Days Each)	12 Workshops* (3 Days Each)	28 Workshops* (3 Days Each)
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom Or		6 Workshops* (3 Days Each)	14 Workshops* (3 Days Each)	32 Workshops* (3 Days Each)



Professional Development Type	Any Quantity	10,000 Units	30,000 Units	70,000 Units
Intel Transforming Learning with 1:1 Course: Learning with One to One				
Intel Transforming Learning with 1-1 Course: Student Engagement with One to One		Yes	Yes	Yes
Atomic Learning Integrate	Yes	Yes	Yes	Yes
Atomic Learning Mobilize	Yes	Yes	Yes	Yes
ClassLink Turnkey Training on LaunchPad		10 Online Facilitated (½ Day Each)	30 Online Facilitated (½ Day Each)	70 Online Facilitated (½ Day Each)
Intel Teach Elements Series	Yes	Yes	Yes	Yes
Intel Education	Yes	Yes	Yes	Yes
Common Sense Media K-12 Digital Literacy and Citizenship Program	Yes	Yes	Yes	Yes
Microsoft Digital Literacy	Yes	Yes	Yes	Yes
Microsoft Partners in Learning School Research	Yes	Yes	Yes	Yes
Common Sense Media Learning Ratings for Educators	Yes	Yes	Yes	Yes
Microsoft Partners in Learning Network	Yes	Yes	Yes	Yes
Intel Engage Community	Yes	Yes	Yes	Yes
Leadership Professional Development				
McREL Balanced Leadership for Selected Leaders		4 Workshops* (2 Days Each)	8 Workshops* (2 Days Each)	20 Workshops* (2 Days Each)
McREL Managing Change for Selected Leaders Follow-up Workshop		4 Workshops* (2 Days Each)	8 Workshops* (2 Days Each)	20 Workshops* (2 Days)



Professional Development Type	Any Quantity	10,000 Units	30,000 Units	70,000 Units
				Each)
Intel Teach Elements Series: Educational Leadership in the 21st Century	Yes	Yes	Yes	Yes
Intel Teach Elements Series: Collaboration in the Digital Classroom	Yes	Yes	Yes	Yes
Atomic Learning Integrate	Yes	Yes	Yes	Yes
Atomic Learning Mobilize	Yes	Yes	Yes	Yes
Common Sense Media K-12 Digital Literacy Program	Yes	Yes	Yes	Yes
Microsoft Digital Literacy	Yes	Yes	Yes	Yes
Microsoft Partners in Learning School Research	Yes	Yes	Yes	Yes
Common Sense Media Learning Ratings for Educators	Yes	Yes	Yes	Yes
Microsoft Partners In Learning Network	Yes	Yes	Yes	Yes
Intel Engage Community	Yes	Yes	Yes	Yes
Technology Administrators				
HP Technical Professional Development		2 Workshops* (2 Days Each)	4 Workshops* (2 Days Each)	10 Workshops* (2 Days Each)
ClassLink System Overview	Yes	Yes	Yes	Yes
*Workshops are proposed to be spread across the four-year contract term				



It is important to note that HP strongly recommends investing in professional development as professional development is a critical factor in the successful implementation of any 1:1 initiative. In addition to the matrix of services included with the MLTI offering listed above, HP has provided pricing for optional professional development services and we encourage all participants to enhance their professional development program by utilizing these optional services.

Creating Program Capacity and Local Train-the-Trainer Incentive

The PDP is designed to have the capacity to reach all educators, leaders and technology support personnel through offering a wide variety of online and face-to-face professional development offerings and utilizing a train-the-trainer model. For Tier 1 and Tier 2 states, the train-the-trainer model is especially important as it creates the ability for professionally trained mentor experts to be available at a local level building strong capacity into the plan. In order to incent mentor teachers to participate in the train-the-trainer model, we will provide stipends for trainers to deliver up to two local professional development two-day workshops. In this model a state purchasing 70,000 may have 240 trainers who would receive a stipend when they conducted local training. This model not only provides incentive for mentor teachers to become trainers, but also provides investment in the local community supporting a positive economic impact.

Proposed Professional Development Schedule – Year 1

ENA, in collaboration with HP, has worked with the professional development partners to develop a very comprehensive professional development plan (PDP) that focuses on the crucial elements outlined under Methodology in Section 10.

The plan brings together consulting, workshops, courses, classes and online resources from all the partners. It is important to note that professional development is provided over the four-year term of the contract. We have included a proposed Year 1 Professional Development Schedule in Table 32 below with the understanding that we will work with each Tier 1 and Tier 2 state with qualifying purchases to develop a customized program.



Table 32. Proposed Professional Development Schedule – Year 1 2013

	Spring 2013	Summer 2013	Fall 2013	Spring 2014
State Level Professional Development				
Professional Development Project Management (For Qualifying Tier 1 and Tier 2 States)	Meet with State Department of Education for a kick-off planning meeting Identify Professional Development Specialist Work with Professional Development Specialist and partners to manage planned Spring, Summer, Fall Training for Educators, Leadership and Technology groups	Work with Professional Development Specialist to review and revise (if necessary) Summer and Fall schedules Oversee and manage professional development partners participating in Summer training roll out plan	Work with Professional Development Specialist to review and revise (if necessary) Fall schedules and begin planning for Year 2 Oversee and manage professional development partners participating in Fall training roll out plan Begin working with HP and other partners to organize Summer Institute locations, agenda, schedule, attendees and communication plan	Meet with State Department of Education, Professional Development Specialists for program evaluation Finalize plans for Summer Institute with HP and other partners
Professional Development Specialist (For Qualifying Tier 1 and Tier 2 States)	Work with eligible states to establish goals and objectives for the state's professional development plan Engage Subject Matter Experts	Work with regional locations to assure program needs Review and evaluate needs for Summer and Fall programming Consult with eligible	Schedule, plan, assign locations and attendees to Summer Institute Define Agenda and attendees for the Institute	Meet with State Department of Education for program evaluation Finalize plans for Summer Institute



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
	<p>Select professional development options</p> <p>Identify criteria for Leadership Level and Train the Trainer cohort</p> <p>Assist in identification of Train-the-Trainer and Leadership Teams throughout state</p> <p>Map out, schedule and plan State and Regional Training Plan</p> <p>Support Spring Training for Educators, Leaders and Technologists</p>	<p>states for any revisions to Summer and Fall programs</p>	<p>Schedule, plan, assign and manage attendees and PD Program Offerings</p> <p>Work and communicate with regional and district trainers</p> <p>Review and evaluate needs for continued PD programming</p>	
<p>Subject Matter Expert Consulting with experts such as Dr. Punya Mishra or Dr. Chris Dede (Select One for Qualifying Tier 1 and Tier 2 States)</p>	<p>Consult with State Leaders on developing their Year 1 professional development program</p>			<p>Consult with State Leaders on developing their Year 2 professional development program</p>



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
Educator Professional Development				
McREL Using Technology with Classroom Instruction that Works for Mentor Educators (For Qualifying Tier 1, 2 and 3 States)	Select Mentor Educators to attend workshop	Conduct the 2-day workshop hosted at selected regional sites	Conduct follow-up 1-day workshop	Select Mentor Educators to attend second round of workshops in Years 2, 3 or 4.
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom (For Qualifying Tier 1, 2 and 3 States) Or (Select Strand) Intel Transforming Learning with 1:1 Course: Learning with One to One (For Qualifying Tier 1, 2 and 3 States)		Conduct the 3-day workshop hosted at selected regional sites		Select Train-the-Trainer Educators to attend second round of workshops in Years 2, 3 or 4
Intel Transforming Learning with 1:1 Course: Student Engagement with 1:1 (For Qualifying Tier 1, 2 and 3 States)	Select Train-the-Trainer Educators to attend the workshop	Take the eLearning course		Select Train-the-Trainer Educators to attend second round of workshops in Years 2, 3 or 4
ClassLink Turnkey Training on LaunchPad (For Qualifying Tier 1, 2 and 3 States)	Select Train-the-Trainer Educators to attend the workshop	Conduct the ½ day remote workshop		Select Train-the-Trainer Educators to attend second round of



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
				workshops in Years 2, 3 or 4
Atomic Learning Integrate Atomic Learning Mobilize Intel Teach Elements Series Intel Education Intel Engage Community Common Sense Media K-12 Digital Literacy and Citizenship Program Common Sense Media Learning Ratings for Educators Microsoft Digital Literacy Microsoft Partners in Learning School Research Microsoft Partners in Learning Network (Available to all HP MLTI Participants)		Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities
Leadership Professional Development				
McREL Balanced Leadership for Selected Leaders (For Qualifying Tier 1, 2 and 3 States)	Select Leader representatives to attend workshop	Conduct the 2-day workshop hosted at selected regional sites		Select Leader representatives to attend second round of



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
				workshops in Years 2, 3 or 4.
McREL Managing Change for Selected Leaders Follow-up Workshop (For Qualifying Tier 1, 2 and 3 States)	Select Leader representatives to attend workshop		Conduct the 2-day workshop hosted at selected regional sites	Select Leader representatives to attend second round of workshops in Years 2, 3 or 4.
Atomic Learning Integrate Atomic Learning Mobilize Intel Teach Elements Series: Educational Leadership in the 21st Century Intel Teach Elements Series: Collaboration in the Digital Classroom Intel Education Intel Engage Community Common Sense Media K-12 Digital Literacy and Citizenship Program Common Sense Media Learning Ratings for Educators Microsoft Digital Literacy Microsoft Partners in Learning School Research Microsoft Partners in Learning		Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
Network (Available to all HP MLTI Participants)				
Technology Administrators				
Technical Professional Development (For Qualifying Tier 1, 2 and 3 States)	Select Technology representatives to attend workshop	Conduct the 2-day workshop hosted at selected regional sites		Select Technology representatives to attend second round of workshops in Years 2, 3 or 4.
ClassLink System Overview	Systems Overview training for Technology Administrators	Systems Overview training for Technology Administrators	Systems Overview training for Technology Administrators	
Atomic Learning Integrate Atomic Learning Mobilize Intel Teach Elements Series Intel Education Intel Engage Community Common Sense Media K-12 Digital Literacy and Citizenship Program Common Sense Media Learning Ratings for Educators		Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities	Always available online self-paced tutorials, courses, and professional learning communities



	Spring 2013	Summer 2013	Fall 2013	Spring 2014
Microsoft Digital Literacy Microsoft Partners in Learning School Research Microsoft Partners in Learning Network (Available to all HP MLTI Participants)				
As proposed, professional development offerings are intended to be spread across the four-year contract term. Exact schedule and offerings will be determined in consultation with state leaders in qualifying Tier 1 and Tier 2 states and with district leaders in qualifying Tier 3 states.				



10.1.1. Maine Transition Support

While many of the professionals in Maine schools have many years of experience in MLTI schools, the depth of knowledge and the application of innovative practices vary greatly. Nonetheless, the Department recognizes that the next MLTI solution will require a certain level of basic training regardless of the platform or device. The Bidder must address in its proposal how it plans to transition Maine schools from the existing MLTI solution to its solution. This should include supporting teachers with the migration of files in format that have been created using software included in the current MLTI solution to compatible formats in the Bidder's solution. See **Appendix E, State Profiles – Maine** for a list of software titles included in the current MLTI solution.

Response:

HP and its professional development partners recognize that a level of basic training will need to be provided for both new participants and existing participants. For that reason, we have provided the following professional development offerings that will provide this basic level of training as well as assist educators in migrating compatible files. Please see Reviewing Maine's Legacy Software and Transition Options section below for a mapping of software titles from Appendix E.

1. Microsoft Windows in the Classroom – This train-the-trainer workshop will include an introduction to Windows component which will assist educators to fully understand and utilize the Windows operating system. Educators migrating files from the existing MLTI solution to the HP solution will also benefit from these workshops.
2. Atomic Integrate – From the "how-to" to "how-to-apply," Atomic Integrate includes training suited for beginners to advanced users. The training includes step-by-step assistance that guide users through how to use technology - from understanding how to use a program to how to perform specific tasks such as saving files in different applications.

Reviewing Maine's Legacy Software and Transition Options

Further, HP has reviewed the list of current software used, as stated in the State of Maine's Request for Proposals. These applications have been categorized by functionality/subject area, whether or not the application is also offered in Windows format, and in the event that specific software is unavailable, offered are some likely alternative applications to provide similar or more superior learning environments.

As outlined in the chart below, most of the legacy software titles previously used can be easily replaced with Microsoft Office, Adobe Digital School Collection and readily available Windows compatible software titles.

Table 33. Maine's Legacy Software and Transition Options

Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
Business	JA Titan		Yes		http://titan.ja.org web based



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
					simulation games
Music	iTunes	10.5.3	Yes		
Music	Garageband	6.0.4	No	Adobe Audition, Cakewalk Sonar X2 or Cakewalk Music Creator 6.0 (low cost)	Music editing and recording software
Productivity	Address Book	5.0.3	No	Microsoft Outlook	Contact database, now called Contacts in Mountain Lion
Productivity	iCal	4.0.4	No	Microsoft Outlook	
Productivity	iChat	5.0.3	No	Microsoft Lync, Yahoo IM, Google Chat	
Productivity	Keynote	5.1.1	No	Microsoft PowerPoint	
Productivity	Mail	4.5	No	Microsoft Outlook or web-based email	
Productivity	OmniFocus	1.9.4	No	Microsoft Outlook, or Microsoft Project	
Productivity	OmniOutliner	3.10.3	No	Microsoft Excel	
Productivity	Pages	4.1	No	Microsoft Word	
Productivity	TextEdit	1.6	No	Microsoft Word	Simple text editing, Microsoft Word provides superior experience



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
Productivity	Write Room	2.5.2	No	Microsoft Word	Writeroom provides full screen writing environment. Just use Microsoft Word in full screen mode for same result
Reference	Encyclopedia Britannica	10	Yes		
Reference	Overdrive Media Console	1.1	Yes		www.overdrive.com
Reference	OmniDictionary	2.0.4	No	www.dictionary.com	
Web sites offer same functionality					
Simulation	Wolfquest		Yes		www.wolfquest.org
STEM	Data Studio	2012	Yes		PASCO stopped producing DataStudio software and migrated to PASCO Capstone, all their programs run in Windows environment (www.pasco.com/dastudio)
STEM	Geogebra	4.0.21	Yes		
STEM	Google Earth	6.2.0.590.5	Yes		
STEM	Grapher	2.1	Yes		Advanced Grapher 2.1 for Windows from Alentum Software
STEM	Logger Pro	3.8.4.2	Yes		Data recording tool from Venier



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
STEM	Maine Explorer	1.0.3	Yes		www.simbio.com
STEM	SketchUp Pro	8.0.11751	Yes		www.sketchup.com
STEM	Geniquest		Unknown		Created by Center for Genome Dynamics specifically for Maine's old laptop program
STEM	Calculator	4.5.3	No	Graphing Calculator 3D by Runitor	free 3D software, provides common calculator GUI interface, no training needed
STEM	Omni GraphSketcher	1.2.1	No	Graphing Calculator 3D by Runitor	Free 3D software, provides common calculator GUI interface, no training needed
Utility	Cyberduck	4.2.1	Yes		www.cyberduck.ch instant FTP tool
Utility	Democracy	1	Yes		Now called Miro, free software
Utility	1 to 1 Back Up	3.2	Unable to find	PC Backup	Dozens of backup software titles to choose from
Utility	ClamXav	2.2.2	No	Microsoft Security Essentials	Free Virus checking software, minimal technical training needed, Microsoft is also free and provides assistance is device gets infected
Utility	DVD Player	5.4	No	Choice of many free DVD player applications	No training required



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
Utility	Mac OS X	10.6.8	No	Microsoft Windows 7 or 8	
Utility	Time Machine	1.1	No	PC Backup	Dozens of backup software titles to choose from
Utility	VoiceOver	3.5	No	Microsoft Narrator built into Windows	
Utility	iSync	3.1.2	N/A		iSync was removed from Mac OS X starting with version 10.7
Visual	Acrobat Reader	10.1.2	Yes		
Visual	Adobe Digital Editions	1.8.1	Yes		
Visual	Comic Life	1.54	Yes		www.comiclife.com
Visual	ProfCast	2.6.5	Yes		www.profcast.com
Visual	QuickTime Player X	10	Yes		
Visual	Scratch	1.4	Yes		http://scratch.mit.edu
Visual	Photo Booth	3.0.3	Unable to find	Spark Booth	Photo booth kiosk software www.sparkbooth.com
Visual	Acorn	3.2	No	Adobe Photoshop Elements or Photoshop.com	
Visual	iDVD	7.1.2	No	Adobe Premiere Elements	
Visual	iMovie	9.0.4	No	Adobe	



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
				Premiere Elements or freeware like EZVid	
Visual	iPhoto	9.2.1	No	Adobe Photoshop Elements or Photoshop.com	
Visual	OmniDazzle	1.1.1	No	Adobe After Effects or freeware like Easy Green Screen	screen effects (www.photoshopgreenscreen.com)
Visual	OmniGraffle	5.3.6	No	Diagraming functions found in Microsoft Word and PowerPoint	
Visual	Preview	5.0.3	No	Adobe Acrobat	
Visual	Perian	1.2.3	N/A		www.perian.org - site indicates they have ceased operations
Web	Firefox	3.6.13	Yes		
Web	iWeb	3.0.4	No	Microsoft Expression Web	
Web	OmniWeb	5.11.1	No	Microsoft Internet Explorer, Google Chrome	
Web	Safari	5.1.3	No	Microsoft Internet Explorer,	



Category	Name	Version	Available in Windows Format	Alternate Windows Application(s)	Description/Details
				Google Chrome	
Unknown	Zon		unable to find		

10.2. Curriculum Integration Professional Development

10.2.1. Educator Professional Development

The integration of technology into teaching and learning processes remain the keystone to any 1:1 program. The Provider will develop and deliver professional development materials and opportunities for educators throughout the term of the Agreement to support the effective integration of the solution into teaching and learning. Bidders must address how it plans to provide professional development opportunities to educators throughout the State. The Department has recognized many challenges over the past decade of implementing Maine's 1:1 program and providing professional development to educators including:

- Heterogeneous skills and experience using technology among the educators. While the program has been in place for over a decade and the base skills and capacities of teachers may be stronger overall than other large populations in other places, there still exists a wide variability among them.
- The need for greater understanding of how a 1:1 program can facilitate student-centered teaching and learning. The Department recognizes that one barrier to the high-level integration of 1:1 technology is the need for greater understanding of the ways such technology can support a student-centered approach to teaching and learning.
- Many teachers have "tech skills" but lack the teaching and management skills necessary to leverage those skills. The Department recognizes that technology-use skills do not necessarily result in effective technology-empowered teaching and learning. Too often, "technology integration" is done a very basic level, leaving unrealized the potentially transformative power of a 1:1 approach.
- Lack of availability of substitute teachers limits participation. For face-to-face opportunities during the school day, the Department has found that it is difficult to host large sessions with teachers in a single school or a single region because in many areas, there are not enough substitute teachers to provide coverage while the teachers are participating in the professional development opportunity.

The Department has provided synchronous and asynchronous online professional development opportunities including online classes, webinars, and podcasts. While each has been viewed as effective for some, the Department also recognizes that like students, the learning styles and comfort of teachers is varied.



The Provider will provide an appropriate amount of educationally relevant professional development training for teachers and other school personnel as identified by the school to support the most effective use of the Provider's solution. The Bidder must describe its professional development plans to address the challenges identified by this RFP as well as anticipated challenges identified by the Bidder. Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient teacher professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to sign up for opportunities.

Response:

HP understands the objective of the MLTI is to realize the potentially transformative power of a 1:1 environment resulting in effective technology-empowered teaching and learning. As outlined in Dr. Chris Dede's book, *Digital Teaching Platforms*, successful 1:1 implementations achieve second-order change versus first-order change. First-order change is where schools utilize technology to do old things in new ways. First-order changes are not historically effective in improving student achievement. They lead to some improvements, but are not transformative. Second-order change is where schools do new things in new ways. "Although second-order change can appear challenging, some types of second-order change have the transformative power that educators have been seeking since the microcomputer revolution began." An example of second-order change he provides is the change from teacher-centered to student-centered learning which is one of the core priorities of Maine's Education Strategic plan, "Education Evolving: Maine's Plan for Putting Learners First." The PDP that HP partners have developed for MLTI educators and leaders is designed to achieve second-order change in 1:1 environments.

Educator Professional Development Deliverables

The comprehensive professional development programs offered in HP's PDP are described below. HP understands that educator and leader adoption of technology and skill levels may vary widely. HP has carefully selected a robust variety of professional development offerings that not only meet the learning needs of novice to experienced technology users but also provide a selection of offerings to address the challenges identified in the RFP plus others identified in the research conducted by Project Red. Project Red is a national research and advocacy organization that conducts national studies on technologies and student achievement focusing on 1:1 implementations. For additional information, please visit www.projectred.org. In addition to providing information about each professional development offering, the chart below also identifies what challenges the professional development offering overcomes.

Detailed information on each program is provided in HP Appendix D— Professional Development Partners and Programs and qualifying purchases are outlined in Table 31 in Building a Comprehensive Plan section.

The following table outlines the professional development offerings for educators.



Educator Professional Development		Delivery Mode and Duration	Challenges Addressed						
			Heterogeneous Skills	Student-Centered Approach	Technology-Empowered Teaching and Learning	Professional Development Delivery Options	Building Leadership Capacity	Second-Order Change	Transition Support and Technical Implementation
Professional Development Offering/Host Organization	Summary Description								
Using Technology with Classroom Instruction that Works McREL	Research-based and targeted professional development on both technology integration and quality instructional strategies. These workshops are TPACK and SAMR aligned. Provides tools, applications, and websites that will allow teachers to use the technology provided in the MLTI to reshape the way they teach. Increases teacher ability to create a student-centered environment in the classroom. Fosters the development of teaching and management skills needed to leverage technology skills.	Face to Face (F2F) 2 +1 Days	✓	✓	✓	✓			
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom	Program to train the trainers to scale out the best practice uses of technology in the classroom focused on project based learning and maximizing productivity. Includes Windows in the Classroom training which will assist educators to fully understand and utilize the Windows 8 operating system.	F2F 3 Days	✓		✓	✓	✓	✓	✓



Microsoft										
Intel Transforming Learning with 1-1 Course: Learning with One to One	The Intel Transforming Learning with 1-1 Program helps teachers re-engineer practices to become proficient in a 1-1 e-learning environment. This train-the-trainer workshop helps educators design instruction in a one to one setting with curriculum mapping, creating activities using Web 2.0 tools and sustained technology support.	F2F 3 Day								
Intel			✓	✓	✓	✓	✓	✓	✓	
Intel Transforming Learning with 1-1 Course: Student Engagement with One to One	The Intel Transforming Learning with 1-1 Program helps teachers re-engineer practices to become proficient in a 1-1 e-learning environment. Participants explore characteristics of engaged learners by taking advantage of the authentic, real-world tools in a one to one learning environment. eLearning course, online or CD-Based, free facilitation materials.	Online 40 Hours								
Intel			✓	✓	✓	✓	✓	✓	✓	
Atomic Integrate Atomic Learning	Atomic Learning's signature solution providing training and integration on software applications.	Online 24x7 Time Varies								
			✓		✓	✓	✓			✓
Atomic Mobilize Atomic Learning	Provides professional development necessary to plan, implement, and revitalize successful initiatives that bring portable technology and learning together.	Online 24x7 Time Varies								
			✓	✓	✓	✓	✓			✓



Turnkey Training on LaunchPad ClassLink	Train-the-trainer remote professional development focusing on using LaunchPad in the Classroom.	Online Leader Facilitated ½ Day	✓		✓	✓				✓
Intel Teach Elements Series Includes the Following Courses: <ul style="list-style-type: none"> • Project-Based Approaches • Assessment in 21st Century Classrooms • Collaboration in the Digital Classroom • Thinking Critically with Data Intel	Just in time e-learning courses that provide educators with flexible professional development opportunities supporting integration of technology in schools. These e-learning courses are designed to support a schools professional learning community. The content can support facilitated discussion and reflection on key educational topics that support effective use of technology in schools. The Intel Teach Elements courses align well to the TPACK model.	Online 24x7 20 Hours Each	✓	✓	✓	✓	✓			
Intel® Education: Free Tools and Resources to Help Students Develop 21st	Online tools create active learning environments where students can engage in discussions, analyze information, pursue investigations, and solve problems. Also included are teaching resources, including lesson plans, assessment strategies, and technology-enriched project ideas for all K–12 subjects.	Online 24x7 Time Varies	✓	✓	✓	✓				



Century Skills Intel										
K-12 Digital Literacy and Citizenship Program Including: <ul style="list-style-type: none"> • Common Sense 1:1 Essentials Program • Online Professional Development • Parent Media Program • Student Curriculum Common Sense Media	<p>Common Sense Media proposes to continue its highly successful state wide Digital Literacy and Citizenship program model we are currently implementing in Maine, where over 75% of schools are using our resources.</p> <p>Common Sense Media's 1:1 Essentials Program will provide school administrators, teachers, and parents with a robust behavioral roadmap for rolling out a successful 1:1 student program. The program goals are threefold:</p> <p>(1) to offer a customizable, six-month game plan that would prepare a positive school community climate for 1:1 program implementation by teaching to building digital literacy and citizenship skills</p> <p>(2) to provide guidance, advice, and actual resources to introduce, inform, and familiarize both educators and families with the changes that 1:1 devices bring to traditional classroom practices.</p> <p>(3) to provide the necessary, onboarding digital citizenship and literacy curricular resources that students need in order to make safe, responsible, and respectful choices with their new devices.</p>	Online 24x7 20+ Hours	✓	✓	✓	✓	✓			
Digital Literacy: Microsoft	<p>This curriculum, available online or offline, helps educators develop a fundamental understanding of computers and productivity software. The courses help them learn the essential skills to begin computing with confidence.</p>	Online 24x7 Time Varies	✓		✓	✓				✓



<p>Teaching with Technology Microsoft</p>	<p>Teaching with Technology offers a self-assessment to identify learning gaps, 36 hours of eLearning content, summative assessments, a range of consolidation learning activities and tutorials as well as an optional valid and reliable assessment of educator competencies via the Microsoft Certified Educator Exam</p>	<p>Online 24x7 36 Hours</p>	<p>✓</p>		<p>✓</p>	<p>✓</p>			<p>✓</p>
<p>Partners in Learning School Research Microsoft</p>	<p>Online survey sent out by a school administrator to school leaders and teachers to gain their individual self-assessments of innovative teaching practices in their school and in their own classes.</p>	<p>Online 24x7 Time Varies</p>	<p>✓</p>		<p>✓</p>	<p>✓</p>			
<p>Learning Ratings for Educators Common Sense Media</p>	<p>Common Sense Learning Ratings for Educators is a credible, unbiased tool for educators to discover, curate, use, and share the best digital media products for use in learning. In addition, Learning Ratings will help educators connect to other educators to share information on how they use digital learning products in the classroom. Currently, ratings and reviews are available now for more than 1,000 mobile applications, games, and websites, with 2,000 expected by the end of 2013. In addition to assessments of individual products, Common Sense's editors compile special recommendations by age, subject or Common Core skill to help teachers identify the products that best meet student's learning needs. http://www.commonsensemedia.org/about-us/our-mission/about-our-ratings</p>	<p>Online 24x7 Time Varies Availab le August 2013</p>			<p>✓</p>	<p>✓</p>			



Partners in Learning Network Microsoft	Educator and Leader Network to access free resources, tutorials, collaborative professional learning communities and obtain online webcasts and materials. www.pil-network.com	Online 24x7 Time Varies	✓		✓	✓				
Intel Engage Community Intel	Global online network of educators dedicated to educational improvement. Supports core concepts of 1 to 1 in use of technology, instructional design, project-based approaches, assessment of 21 st Century Skills, open-ended questioning and networking. http://engage.intel.com/welcome	Online 24x7 Time Varies	✓	✓	✓	✓				



10.2.2. Leadership Professional Development

Leadership at all levels is critically important to the success of a 1:1 program. The Department wishes to strengthen and build the capacity of its educational leaders including principals, superintendents, curriculum coordinators, technology directors, and other key personnel. Today's educational leaders need to be able to embrace technology as a tool for transforming teaching and learning, and need to lead their schools and school systems in more fully realizing that transformational power. The Department has found, however, that technology is sometimes viewed by education leaders as an extra or an add-on, rather than the transformative tool it has the potential to be. The Department recognizes training leaders to embrace and be advocates for this kind of change is a wide-ranging and open-ended challenge. Bidders must describe how it plans to address the development of this kind of leadership capacity in the schools empowered by the Bidder's solution.

Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient leadership professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to sign up for opportunities.

Response:

Leaders play a significant role in the successful implementation of 1:1 projects. The 2010 Project Red survey identified nine implementation factors that correlate to successful educational outcomes. Of the nine success factors, two are directly attributed to leaders.

They include:

1. Integrating technology classes into every intervention class period
2. Implementing change-management leadership by school principals
3. Practicing daily online collaboration by students
4. Integrating technology into the core curriculum at least weekly
5. Performing formative online assessments at least weekly
6. Having a low student-computer ratio
7. Taking frequent virtual field trips
8. Using search engines by student daily
9. Training principals in teacher buy-in, best practices, and technology transformed learning

The HP PDP has included a robust professional development offering designed specifically to help school leaders not only adopt and implement the technology for their own areas of responsibility, but also to understand what to know and plan for in 1:1 environments and how to best support and guide educators for successful outcomes.

The following table outlines the professional developments offerings for leaders.



		Delivery Mode and Duration	Challenges Addressed						
			Heterogeneous Skills	Student-Centered Approach	Technology-Empowered Teaching and Learning	Professional Development Delivery Options	Building Leadership Capacity	Second-Order Change	Transition Support and Technical Implementation
Leadership Professional Development									
Professional Development Offering/Host Organization	Summary Description								
Balanced Leadership for Technology Initiatives: An Overview McREL	This session focuses on six major research findings from McREL’s meta- and factor-analyses on principal leadership. It also includes an introduction to the concept of shared leadership, balanced leadership, and the Balanced Leadership Framework® within the context of leading major instructional technology initiatives. The professional development session is driven by both best practices in school leadership and by best practices in instructional technology implementation and aligns with two components of the TPACK Model – Technological Knowledge and Pedagogical Knowledge.	Face to Face (F2F) 2 Days			✓	✓	✓	✓	
Managing Change	This session increases participants’ knowledge about change and effective technological change leadership and helps leaders embrace changes related to integrating technology into their schools. <i>Managing Change</i> is based on McREL’s findings that identified specific leadership	F2F 2 Days			✓	✓	✓	✓	



McREL	responsibilities associated with first- and second-order change. Participants learn how to initiate, monitor, and lead change effectively by applying McREL's four phases of change: <i>Create Demand, Implement Change, Monitor and Evaluate Change, and Manage Personal Transitions.</i>								
Intel Teach Elements Series: Educational Leadership in the 21st Century Intel	Educational Leadership in the 21 st Century course is designed to support - educational leaders in their understanding of supporting educators in their effective use of technology. An Educational leader would also benefit from taking the Collaboration in the Digital Classroom where they can see how teachers can use technology to transform their classroom.	Online 24x7 20 Hours Each	✓	✓	✓	✓	✓		
Intel Teach Elements Series: Collaboration in the Digital Classroom Intel	Supports teachers and leaders in ensuring students have collaboration skills for the global economy.	Online 24x7 Time Varies		✓	✓	✓	✓		
Atomic Integrate Atomic Learning	Atomic Learning's signature solution providing training and integration on software applications.	Online 24x7 Time Varies	✓		✓	✓	✓		✓
Atomic Mobilize Atomic Learning	Provides professional development necessary to plan, implement, and revitalize successful initiatives that bring mobile technology and learning together.	Online 24x7 Time Varies	✓	✓	✓	✓	✓		✓



<p>K-12 Digital Literacy and Citizenship Program Including:</p> <ul style="list-style-type: none"> • Common Sense 1:1 Essentials Program • Online Professional Development • Parent Media Program • Student Curriculum <p>Common Sense Media</p>	<p>Common Sense Media proposes to continue its highly successful state wide Digital Literacy and Citizenship program model we are currently implementing in Maine, where over 75% of schools are using our resources. Common Sense Media’s 1:1 Essentials Program will provide school administrators, teachers, and parents with a robust behavioral roadmap for rolling out a successful 1:1 student program. The program goals are threefold:</p> <p>(4) to offer a customizable, six-month game plan that would prepare a positive school community climate for 1:1 program implementation by teaching to building digital literacy and citizenship skills</p> <p>(5) to provide guidance, advice, and actual resources to introduce, inform, and familiarize both educators and families with the changes that 1:1 devices bring to traditional classroom practices.</p> <p>(6) to provide the necessary, onboarding digital citizenship and literacy curricular resources that students need in order to make safe, responsible, and respectful choices with their new devices.</p>	<p>Online 24x7 20+ Hours</p>	✓	✓	✓	✓	✓			
<p>Digital Literacy: Microsoft</p>	<p>This curriculum, available online or offline, helps educators develop a fundamental understanding of computers and productivity software. The courses help them learn the essential skills to begin computing with confidence.</p>	<p>Online 24x7 Time Varies</p>	✓		✓	✓	✓			✓
<p>Partners in Learning School Research</p> <p>Microsoft</p>	<p>Online survey sent out by a school administrator to school leaders and teachers to gain their individual self-assessments of innovative teaching practices in their school and in their own classes.</p>	<p>Online 24x7 Time Varies</p>	✓		✓	✓	✓			



<p>Learning Ratings for Educators</p> <p>Common Sense Media</p>	<p>Common Sense Learning Ratings for Educators is a credible, unbiased tool for educators to discover, curate, use, and share the best digital media products for use in learning. In addition, Learning Ratings will help educators connect to other educators to share information on how they use digital learning products in the classroom. Currently, ratings and reviews are available now for more than 1,000 mobile applications, games, and websites, with 2,000 expected by the end of 2013. In addition to assessments of individual products, Common Sense's editors compile special recommendations by age, subject or Common Core skill to help teachers identify the products that best meet student's learning needs. http://www.commonsensemedia.org/about-us/our-mission/about-our-ratings</p>	<p>Online 24x7 Time Varies Available August 2013</p>			✓	✓	✓			
<p>Partners in Learning Network</p> <p>Microsoft</p>	<p>Educator and Leader Network to access free resources, tutorials, collaborative professional learning communities and obtain online webcasts and materials. www.pil-network.com</p>	<p>Online 24x7 Time Varies</p>	✓		✓	✓	✓			
<p>Intel Engage Community</p> <p>Intel</p>	<p>Global online network of educators dedicated to educational improvement. Supports core concepts of 1 to 1 in use of technology, instructional design, project-based approaches, assessment of 21st Century Skills, open-ended questioning and networking. http://engage.intel.com/welcome</p>	<p>Online 24x7 Time Varies</p>	✓	✓	✓	✓	✓			



10.2.3. Technical Professional Development

The Provider will provide an appropriate amount of technical professional development to participating school and district technology support personnel. While the number of technology staff vary from school to school, the Provider should assume that each participating school has at least one assigned staff member to provide technology support. The Department assumes that over the course of the Agreement, that the technology provided in the solution and those systems, protocols, and tools necessary to support the solution will change as new versions of software are released or as upgrades or refinements are introduced. As such, the Department expects the Provider to provide technical training throughout the term of the Agreement designed to enable school and district technology support personnel to provide end-user, just-in-time, support, to troubleshoot the solution as necessary to leverage the support the Provider's solution, and to effectively manage the technical implementation challenges that are inherent in a large-scale implementation. The Bidder will describe the support and maintenance aspects of its solution in **Section 11, Support and Maintenance**.

Professional development plans must include enough detail to be tangible and comprehensible to the evaluation team including proposed numbers of opportunities, proposed location(s), proposed format (in-person workshop, webinar, podcast, etc), recommended length, materials included, proposed topics, proposed instructor to participant ratios, qualifications of instructors, etc.

The Bidder must separately and specifically address its first year program that will make available sufficient technical professional development prior to the start of school year 2013-2014 to support the introduction of the Provider's solution. Training times and opportunities should be convenient to the participating personnel, and school personnel should have multiple options to sign up for opportunities.

In general, while the Department cannot require attendance of technology support personnel at professional development opportunities, based on historical attendance, the Department expects that virtually all technology support personnel will attend opportunities provided during the normal school year. If opportunities are provided during the traditional school summer break, the Department expects that technology support personnel from smaller and more rural schools are less likely to be available due to more limited employment terms.

Response:

HP Response for HP ProBook 4440

HP will provide technical training services to address the following hardware and software as part of the overall HP solution to site support personnel responsible for installation/updates and troubleshooting the devices.

- Site support personnel training
Site support personnel training session can be delivered as instructor led via the Internet or in a classroom setting. HP's response assumes a classroom setting for the interactivity and hands on for troubleshooting. This training session assumes the attendees have at least two years of experience troubleshooting Windows based devices and user knowledge of Windows 7 and Office 2010 (attending the webinars is an option). This training session will be up to two days in duration and is designed for the personnel responsible for set up, onsite troubleshooting and software updates.



It will address common troubleshooting issues for the topics defined. It also includes the update framework for software updates and basic troubleshooting.

- Each session will be no more than two consecutive days in length
 - Each session will be for up to a maximum of 15 attendees
 - Attendees will have prior user experience/knowledge of Microsoft Windows 7 and Office 2010.
 - Attendees will have at least two years Windows based PC set up, installation and troubleshooting skills and experience
 - Training will be delivered instructor led in interactive and demonstration mode
 - Attendees in Onsite sessions will be provided a student handout in the class
 - The State will be responsible for securing and setting up the training rooms for each onsite session
 - Each room needs to be equipped with at least one of each 4440 device and installed with the software being addressed in the training
 - This course can also be delivered as instructor led via the web for remote sites. In these cases, the State will provide phone, bridge and internet access for the attendees.
- Onsite training
Audience: Tech support
Duration: Up to two days
Topics include:
 - Troubleshooting Windows 7
 - Troubleshooting Office 2010
 - Install and set up HP ProBook 4440
 - Push updates process overview
 - Installation/overview and troubleshooting tips for HP installed Software
 - Overview of the support process

To ensure success, attendees should have prior Windows XP or Vista and Office 2003 or 2007 experience.

ClassLink LaunchPad

ClassLink provides Technical System Administration training on their LaunchPad solution for technology administrators and personnel via a free one hour remote training session. This training is focused on a system overview.

The following table outlines the professional development offerings for technology support personnel.



		Delivery Mode and Duration	Challenges Addressed						
			Heterogeneous Skills	Student-Centered Approach	Technology-Empowered Teaching and Learning	Professional Development Delivery Options	Building Leadership Capacity	Second-Order Change	Transition Support and Technical Implementation
Technical Professional Development									
Professional Development Offering/Host Organization	Summary Description								
HP Technical Training for Site Support Personnel HP	This session will provide technical support training on the following topics: Troubleshooting Windows, troubleshooting Office, install and set up of device, push updates process overview, installation/overview and troubleshooting tips for HP installed software and overview of the support process.	Face to Face (F2F) 2 Days	✓		✓	✓			✓
ClassLink System Overview	ClassLink provides Technical System Administration training for technology administrators and personnel via a free one hour remote training session. This training is focused on a system overview.		✓	✓	✓	✓			✓
Atomic Integrate Atomic Learning	Atomic Learning's signature solution providing training and integration on software applications.	Online 24x7 Time Varies	✓		✓	✓	✓		✓



<p>Atomic Mobilize Atomic Learning</p>	<p>Provides professional development necessary to plan, implement, and revitalize successful initiatives that bring mobile technology and learning together.</p>	<p>Time Varies</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>
<p>Intel Teach Elements Series Includes the Following Courses:</p> <ul style="list-style-type: none"> • Project-Based Approaches • Assessment in 21st Century Classrooms • Collaboration in the Digital Classroom • Thinking Critically with Data 	<p>Just in time e-learning courses that provide educators with flexible professional development opportunities supporting integration of technology in schools. These e-learning courses are designed to support a schools professional learning community. The content can support facilitated discussion and reflection on key educational topics that support effective use of technology in schools. The Intel Teach Elements courses align well to the TPACK model.</p>	<p>20 Hours Each</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>



Intel										
Intel® Education: Free Tools and Resources to Help Students Develop 21st Century Skills	Online tools create active learning environments where students can engage in discussions, analyze information, pursue investigations, and solve problems. Also included are teaching resources, including lesson plans, assessment strategies, and technology-enriched project ideas for all K–12 subjects.	24x7 Time Varies	✓	✓	✓	✓				
Intel K-12 Digital Literacy and Citizenship Program Including: <ul style="list-style-type: none"> • Common Sense 1:1 Essentials Program • Online Professional Development • Parent Media Program • Student Curriculum Common Sense	Common Sense Media proposes to continue its highly successful state wide Digital Literacy and Citizenship program model we are currently implementing in Maine, where over 75% of schools are using our resources. Common Sense Media’s 1:1 Essentials Program will provide school administrators, teachers, and parents with a robust behavioral roadmap for rolling out a successful 1:1 student program. The program goals are threefold: (1) to offer a customizable, six-month game plan that would prepare a positive school community climate for 1:1 program implementation by teaching to building digital literacy and citizenship skills (2) to provide guidance, advice, and actual resources to introduce, inform, and familiarize both educators and families with the changes that 1:1 devices bring to traditional classroom practices. (3) to provide the necessary, onboarding digital citizenship and literacy curricular resources that	24x7 20+ Hours	✓	✓	✓	✓	✓			



Media	students need in order to make safe, responsible, and respectful choices with their new devices.									
Digital Literacy: Microsoft	This curriculum, available online or offline, helps educators develop a fundamental understanding of computers and productivity software. The courses help them learn the essential skills to begin computing with confidence.	Time Varies	✓		✓	✓	✓			✓
Teaching with Technology Microsoft	Teaching with Technology offers a self-assessment to identify learning gaps, 36 hours of eLearning content, summative assessments, a range of consolidation learning activities and tutorials as well as an optional valid and reliable assessment of educator competencies via the Microsoft Certified Educator Exam	36 Hours	✓		✓	✓				✓



<p>Partners in Learning School Research</p> <p>Microsoft</p>	<p>Online survey sent out by a school administrator to school leaders and teachers to gain their individual self-assessments of innovative teaching practices in their school and in their own classes.</p>	<p>Time Varies</p>	<p>✓</p>		<p>✓</p>	<p>✓</p>	<p>✓</p>			
<p>Learning Ratings for Educators</p> <p>Common Sense Media</p>	<p>Common Sense Learning Ratings for Educators is a credible, unbiased tool for educators to discover, curate, use, and share the best digital media products for use in learning. In addition, Learning Ratings will help educators connect to other educators to share information on how they use digital learning products in the classroom. Currently, ratings and reviews are available now for more than 1,000 mobile applications, games, and websites, with 2,000 expected by the end of 2013. In addition to assessments of individual products, Common Sense's editors compile special recommendations by age, subject or Common Core skill to help teachers identify the products that best meet student's learning needs. http://www.common sense media.org/about-us/our-mission/about-our-ratings</p>	<p>Time Varies Available August 2013</p>			<p>✓</p>	<p>✓</p>	<p>✓</p>			



<p>Partners in Learning Network</p> <p>Microsoft</p>	<p>Educator and Leader Network to access free resources, tutorials, collaborative professional learning communities and obtain online webcasts and materials. www.pil-network.com</p>	<p>Time Varies</p>	<p>✓</p>		<p>✓</p>	<p>✓</p>	<p>✓</p>			
<p>Intel Engage Community</p> <p>Intel</p>	<p>Global online network of educators dedicated to educational improvement. Supports core concepts of 1 to 1 in use of technology, instructional design, project-based approaches, assessment of 21st Century Skills, open-ended questioning and networking. http://engage.intel.com/welcome</p>	<p>Time Varies</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>			



10.3. Ownership of Content and Curricula

All new professional development materials produced, including content and curricula, and audio/video recordings of live workshops, and provided by the Provider as a result of this RFP and the resulting Agreement, are owned by the Maine Department of Education. The Department will publish all content, curricula, and recordings under a Creative Commons Attribution license or other appropriate open license whenever possible, but reserves the right to do otherwise. The Bidder should acknowledge its understanding of this requirement and indicate its intent to comply.

Response:

HP

HP has read and respectfully advises that no transfer of ownership of any intellectual property will occur under this Agreement. Purchasing Entity grants HP a non-exclusive, worldwide, royalty-free right and license to any intellectual property that is necessary for HP and its designees to perform the ordered services. If deliverables are created by HP specifically for the Purchasing Entity and identified as such in the Order statement of work, HP hereby grants Purchasing Entity a worldwide, non-exclusive, fully paid, royalty-free license to reproduce and use copies of the deliverables internally.

Intel

Intel Education Trainings can be videotaped and shared. Intel owns the rights to the Intel Teach Elements Courses and the Intel Education Transforming Learning with One to One Series.

Microsoft

Microsoft Education Trainings can be videotaped and shared, provided that: (a) use of such recording shall be restricted to internal training purposes only, (b) Microsoft shall have approval over the final cut, and (c) no modifications shall be made to the final version approved by Microsoft. Microsoft shall own the rights to the Microsoft Education Trainings.

ClassLink

ClassLink Online Training Sessions can be recorded and along with ClassLink Training Materials be made available through the LaunchPad desktop for future access at no additional charge.

Common Sense Media

Terms of Use for Printed Curriculum Documents

Common Sense Media is pleased to make our copyrighted printed (PDFs and website copy) curricular materials available under the Creative Commons license “Attribution-NonCommercial-ShareAlike” (CC BY-NC-SA). Please go to <http://www.commonsensemedia.org/about-us/our-mission/educator-programs/curriculum-terms-use> for a full explanation in plain English, how you may use our materials within the terms of this license.



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Atomic Learning

Existing training content and new content added on an ongoing basis (approximately every 45 days) are part of the general Atomic Learning training library available to subscribed users and owned by Atomic Learning. Custom content can be uploaded to the Atomic Learning site by the Maine department of education under the subscription granted through this RFP and remains the property of the Maine DOE to be shared with all designated users.

In the event that the Maine DOE chooses to have Atomic Learning create training videos or content to meet specific requirements, a professional service engagement will be entered into, with a defined statement of work the specifies content ownership.

11. Support and Maintenance

As part of the cost, the vendor will provide ongoing support to the schools for the duration of the agreement. Since the cost is to cover the full costs of deploying and supporting the solution, each Bidder must factor a full support package into its price. The components of such a full support package must include those components necessary to assure the Performance and Quality specifications are met continuously and that the solution is sufficiently supported at all times. The support package must include, but is not limited to: Help Desk; repair; preventative maintenance; licensing; fixes and updates for software, firmware, microcode; etc. A Bidder, depending upon its bid type, may need to include warranty, spares, and other items.

This support will include Help Desk or Support Center service available via 1-800 type access which includes staffing, tools and processes to meet the schools' support requirements including a system of dispatching, tracking, priority setting, reporting and escalation which ensure timely and satisfactory response and resolution. The Provider may also employ other communication systems for delivery of just-in-time support such as Internet audio chat, text chat, web forums, etc. School users of the Help Desk may be students, teachers, administrators, and technical coordinators. Bidders should note that technical assistance related to Internet connectivity is expected insofar as to help determine if the issue is related to the Bidder's solution or the school/home's Internet Provider. The Department expects the Provider to coordinate with the school ISPs to make support as seamless as possible. The Bidder will describe its Help Desk offering as well as its ongoing technical support provided for its proposed solution.



The Bidder will fully describe the process and plan that will be utilized whenever a break/fix event (both in-warranty and out-of-warranty) occurs within any aspect of the Provider's solution. This will cover the entire process of repairing or replacing a portable computing device or any of the solution infrastructure. The infrastructure will be defined as switches, servers, LAN devices, remote access devices or any other equipment provided by the vendor.

As part of its solution reliability strategy, the vendor may provide spare portable computing devices or other spare equipment, to be housed at the local school and configured to the school's specifications for use, while school-assigned devices/equipment are being repaired or replaced. The local quantity of spare portable computing devices should be based on the Bidder's experience with these devices in other, similar environments.

Response:

Please see full response provided in Section 11.1

11.1. Solution Support

Each Bidder must address—at a minimum—the items above, as well as the requirements of **Section 8, Performance and Quality**, in fully describing here its proposed support program to demonstrate that its approach will provide solid, effective support for the users of the solution.

Response:

HP is committed to continuing its history of providing excellent customer service through technology support services. HP's support program includes: Help Desk, repairs, preventative maintenance, licensing; fixes and updates for software, firmware, BIOS, and warranty hot-spares. HP embraces the opportunity to support the objectives of the MLTI Initiative. We will work closely with the participating states to roll out a robust support and maintenance infrastructure that meets the future fully integrated instructional classroom needs for its teachers and students.

HP's solution will combine portable computing and wireless equipment, managed services, and program management support with our partners to establish a stable, yet flexible, learning environment. HP's support program will be a shared delivery approach by utilizing the capabilities of our partners ENA, Black Box, Dynamic Edge and SMaRT Technology Services. Support teams are comprised of resources with the appropriate skillset and certifications to troubleshoot, resolve and escalate incidents and requests. The support teams have access to knowledge databases and technical articles that include specific troubleshooting steps, resolutions/workarounds and escalation procedures.

HP will implement and install a wireless infrastructure if requested, manage product shipments, and complete the installation to provide the core managed IT environment. For states that request it, wireless infrastructure will be deployed and maintained by HP's technical partner and subcontractor ENA. ENA will provide new cabling and the wireless infrastructure coverage for each classroom and in-school roaming. Resiliency and cross coverage of access points for the wireless infrastructure will allow for failover if an access point fails. ENA will provide onsite break/fix services if wireless unit failure cannot be resolved remotely.

As an option, HP can provide device deployment services at the district or school level should they be requested.



Our asset tracking solution will ensure that each schools IT department preserves control of this environment down to the individual user. Our best-practice software management processes will ensure the gold disk image, licenses and local configurations are managed efficiently and automatically. We will provide a full-service helpdesk integrated within a dedicated service helpdesk which is staffed with highly-trained professionals and employs industry based standards and best practices supporting schools in 1:1 environments. Our service support solution will be through a dedicated toll free number as well as an online web-based service center. This helpdesk provides proactive device monitoring and management as well as wireless network monitoring, health check and diagnostic tools. The help desk can also direct activities to provide full restore of software images as well as provide troubleshooting and problem escalation and tracking. Our repair facility will supply end user replaceable parts, hot swap units and will ensure rapid recovery from equipment failures.

Our solution provides for a four-year refresh leasing cycle or full purchase. It includes training for students and educators for each mobile unit shipped. We will work with the MLTI initiative to develop business rules addressing prioritization of support as required that will be built into the helpdesk solution.

Devices shall be asset tagged and pre-imaged through HP's Factory Express process and shipped with the approved State or district standardized gold image. Equipment will arrive directly from HP manufacturing to the school district ready for asset assignment and deployment.

After units are in the hands of the user there may be times when they need technical assistance. We have provided a single point of contact service desk, accessible via both phone and e-mail access. An expanded description of responsibilities of the service desk can be found below. The expectation is that the local education Technology Administrator on site will be the first point of contact for students and teachers in that location for the majority of the time. The HP support desk will be the next level of support for the Technology Administrator through a unified, dedicated toll free number for support of all wireless and portable devices and software and classroom application services for the MLTI initiative. Calls to this toll free number or emails to our support team will be efficiently and transparently routed to the appropriate support specialist for prompt assistance. Help desk specialists assigned to this toll-free support line will not reject calls from teachers or students, but will first confirm that they have discussed their issue with the local Technology Administrator, with the purpose of ensuring coordination of resolution activities, and then will provide support to the user directly if requested.

Service calls that cannot be corrected through this first level helpdesk will be routed to more senior remote technical resources or to the local Technology Administrator onsite to assist with reimaging or hot swapping replacement units. All actions from initial reporting to problem resolution will be tracked in a ticketing system.

Device reimaging shall be facilitated using local media (USB memory devices) provided to the Technology Administrators during the device deployment process and updated annually. Required Technology Administrator's involvement shall be limited to inserting the local media and following a short list of scripted steps to reimage the device.

End users should be advised that nothing stored on a device hard drive is recoverable. Application troubleshooting will often involve device reimaging and will result in the loss of all



locally stored data.

Students and faculty will be advised to use the ClassLink LaunchPad collaboration and storage solution to store copies of all coursework or other important information. If a device fails or otherwise needs to be imaged, all local content will be unrecoverable. Service cases will be managed, monitored and reported on via a web-based service center. Failed units will be flagged “in repair” and removed from the individual’s assignment record. New hot swap units will get scanned into the asset database and the student ID will be assigned to the hot swap unit. The repair centers will maintain parts in stock, and track failure rates in collaboration with the helpdesk solution to spot and resolve defect trends.

Failed units will be boxed up by the local Technology Administrator (preferably using box from replacement unit) and shipped back to the HP repair facility. HP will provide shipping boxes (if needed) and labels for these failed units. Units will be repaired and then returned to the hot spares inventory per district allocation and need. If the optional district accidental damage coverage or whole unit no-fault replacement service is purchased, this will include service coverage such as liquid spills and cracked screens and cases. HP will generate a syllabus for district-led parent/student involvement in and responsibility for the care of the portable computing devices. A write up on how we propose to implement this is included in the training matrix in the Professional Development Plan.

Software issues will be managed by the helpdesk and escalation will be managed back through the Software OEM if required. Patch and firmware solutions will be monitored, tested and managed as part of maintenance service.

HP will continue to monitor the entire support and maintenance process. Reports, case reviews and service process flow improvement methodologies will be provided through the life of this service award. HP and ENA will work closely with the primary customer(s) in each state on transformational changes to better integrate user friendly and efficiency improvements as technology tools and techniques mature.

Personal Information

Each party shall comply with their respective obligations under applicable data protection legislation. Neither HP nor ENA intends to have access to or require personally identifiable information (“PII”) of our State of Maine Customer in providing services. To the extent HP or ENA has access to Customer PII stored on a system or device of Customer, such access will likely be incidental and Customer will remain the data controller of Customer PII at all times. HP or ENA will use any PII to which it has access strictly for purposes of delivering the services ordered.

In the performance of maintenance activities, exchange and replacement of systems between the students is accomplished at the school level and not by HP or its sub-contractors. Before shipment of systems to the depot for repair, if the district chooses to re-image, the system can be reimaged using local media provided by HP/ENA to wipe all student data.

HP/ENA will conduct this training during orientation. Disk wipe will be via reimaging of the machine. HP/ENA shall provide the technology director with a list of steps to follow to wipe each machine. These steps shall include nothing more complicated than entering command line instructions on the device.



Service Desk Responsibilities

The Service Desk functions as the Single Point of Contact and will provide Level 1 support for local resources to find the support required for applications (including ClassLink LaunchPad), hardware, wireless connectivity and image management under this proposal. Support will also include assistance with administrative functions available to local resources such as updates to the asset database, initiating the re-image process or managing hardware repairs. Remote control access within Dynamic Edge's provided LabTech RMM tool will allow service desk analysts to easily assist technology consumers by walking them through a process and starting the re-image process to fully reset the device.

A single toll-free 800# will be provided to the Technology Administrator for all incidents and requests. Calls are routed to the correct support team through skill-based hunt groups within the automated call distribution system. Support requests may also be submitted via email or a self-service online portal.

The service desk is responsible for the following:

- **Single Point of Contact:** While there are multiple contact methods available (telephone, email, self-service), all incidents/requests are handled by the same team. This approach provides efficiencies in team work, communications and ensures properly trained personnel are responding to the request.
- **Service Hours:** Live support will be available to cover the hours of 6:00 AM to 10:00 PM, Monday to Friday, local time.
- **Respond to Incidents/Requests:** The service desk will troubleshoot and attempt to resolve the following high level issues. Incidents that cannot be resolved remotely will be escalated to the appropriate support team at ENA, SMaRT, Dynamic Edge, HP or other identified support team.
 - **Application Issues:** The service desk will provide assistance with ClassLink LaunchPad application and program support services, including error messages and how-to questions.
 - **Hardware Issues:** For both warranty and non-warranty devices, the service desk will provide triage to determine the indication of a hardware issue and will assist with escalation of a ticket, providing assistance with swapping the device with an inventory of local spares. In this case, an incident will be opened to complete the repair on the defective device.
 - **Wireless Connectivity:** The service desk will utilize tools provided by ENA to quickly determine network status to assist with isolating the source of the issue. The team can provide device configuration assistance for connectivity issues or will quickly escalate issues affecting multiple users to ENA for further corrective actions, which may include interacting with the local ISP or dispatching a local representative to conduct onsite testing or equipment swap.
 - **Image Management:** The service desk can remotely start a reimage of a device when it's required. Issues related to images that are not resolved at the first level of the help desk will be escalated to Dynamic Edge.
- **Maintain Ownership:** The service desk maintains ownership of all incidents/requests they process. This ownership includes providing status updates upon request as well as monitoring open incidents throughout their life cycle to ensure nothing is overlooked.



Technical Training Support

During the contract term, if process or software updates are implemented that have a direct impact on the training described in section 10.2.3, HP will update the existing training content and provide the State with a single web based course for use within the State for IT support personnel. Development of new courseware or added or upgraded software is not within this scope.

District Responsibilities

HP will require each State or district to be responsible for the physical deployment and updating of the asset assignment data for each portable computing device handed out to students, teachers or administrators. This will include asset database updates to add or delete assignments when hot spares are used to resolve failures. Districts will be required to provide secure storage and management of onsite hot spares and end user replaceable parts. HP is open to optional solutions to offset concerns around district responsibilities.

11.2. Service and Support Plan

As part of the Project Plan, the awarded Provider will provide a complete Service and Support plan. Each Bidder will acknowledge here its responsibility to do so should it become the Provider.

Response:

HP understands the requirement to provide a complete Service and Support plan within 60 calendar days after the contract is awarded, however we believe we will be ready to deliver this plan within 30 calendar days. This plan will be developed in collaboration with our partners ENA, SMaRT, Dynamic Edge, and Black Box.

12. Project Management and Implementation

The Provider must ensure a successful implementation for each of the participating sites. This includes necessary site surveys, validation testing, installation and configuration of all hardware and software, training, support program implementation and any other aspects of the solution necessary. The following requirements are associated with this requirement and schedule.

Response:

HP acknowledges and understands.



12.1. Project Plan and Deliverables

The Provider will develop and implement a project plan that includes, as a minimum, the following deliverables. Failure to submit the required plan in accordance with this timetable may result in termination, liquidated damages, or delayed payment to the Provider. Each Bidder must describe its ability to meet these requirements:

Response:

HP fully understands the requirements for publishing a Project Plan meeting the States requirements within 30 calendar days after contract award. The Project Plan will be written to meet or exceed the States requirements and will work with the State and participating Districts to accomplish. HP's Project Management processes are in line with Project Management Institute standards and will meet the requirements.

12.1.1. Project Plan

The preliminary Project Plan itself will be delivered for approval not later than 30 calendar days after the Agreement is approved by the State Purchases Review Committee. Development of the plan with the Department's involvement is required. The Plan must include all aspects of the project and its deliverables, including coordination with the Department and the schools, communications and reporting, timetable, Validation Testing Subplan, Deployment Subplan, Professional Development Subplan, and the Service and Support Subplan. This Project Plan will be revised and improved periodically as needed, subject to approval by the Department.

Response:

HP acknowledges and understands. HP will finalize and submit a project plan within 30 calendar days of contract award as we engage with the State. Our Plan will be developed in coordination with the Department and the schools and will include communications and reporting, a timetable, a validation testing subplan, a deployment subplan, a professional development subplan and a service and support subplan. HP understands that the project plan, after initial presentation, will be revised and improved periodically as needed and will be subject to the approval of the Department.

12.1.2. Validation Testing

This will be system testing, in participating schools, that confirms that the solution meets or exceeds the functional requirements, and the performance and reliability specifications as required under the Agreement between the Provider and the Department resulting from this procurement process. This Validation Test will enable the Provider the opportunity to test its equipment in school environments and will assure the Department that the solution is acceptable for production deployment. The test will include up to five (5) schools and must be successfully completed by July 19, 2013.

Response:

HP's project plan will include a validation testing subplan. The purpose of this subplan component will be to confirm that the solution meets or exceeds the functional requirements of the Agreement resulting from this procurement process which shall be based on our response to



this RFP and the RFP itself.

We anticipate that we will test in at least 5 schools to confirm that the solution is acceptable for production deployment in a school environment and we also anticipate that the validation test will be completed by July 19, 2013.

12.1.3. Educational Conferences

Participation in at least twenty (20) educational conferences or meetings annually in conjunction with the Department, the intent of which is to help inform the educational community of the project plans and to maintain communication and ongoing relationships with the participating schools. These conferences may begin as early as June 2013.

Response:

HP and its partners in this response understand that we will be requested to participate in conjunction with the Department in at least 20 educational conferences or meetings each year, starting perhaps as early as June 2013. We understand that the purpose of these meetings and/or conferences will be to inform the educational community of the project plans and to maintain communication and ongoing relationships with the participating schools.

12.1.4. Implementation

The Provider must successfully install, configure and test all hardware and software for each participating site. In School Year 1 this must be completed by August 23, 2013.

The Provider will install cabling for its solution and its connection to the school's local network. At the Provider's discretion, they may utilize existing cabling in the schools. If done, the Provider must agree to warranty those parts of the local infrastructure that they utilize as they would newly installed equipment. The local school will arrange for electrical work based on the Provider's specifications. Local construction, abatement and other costs are the responsibility of the school. As part of the installation, the Provider will provide an overview to the local technical coordinator of the resulting network and train the person(s) in the basics of system/network operation and support.

Each school installation will include provision of complete, current documentation necessary for effective and successful use of the solution by people such as system administrators, site support personnel, and teachers. This may include manuals, guides, quick reference materials and other documentation. Electronic versions are required. Each Bidder will describe what documentation they will provide and how they will provide it in order to be effective.

Each installation will include establishment of a site work completion and satisfaction sign-off form. The Provider's equipment and work at each site will not be considered complete nor will it be paid for until satisfaction sign-offs are obtained from both the responsible site person and the Department's Agreement administrator.

Response:

HP acknowledges and understands.

12.1.4.1. Maine Implementation



Note that certain schools in Maine begin the school year in early August, and therefore those schools should have equipment installed and tested no later than July 26, 2013.

Response:

HP acknowledges and understands.

12.1.4.2. Hawaii Implementation

Note that nearly all schools in Hawaii begin the school year in late July, and therefore it would be preferable if those schools would have equipment installed and tested no later than June 26, 2013.

Response:

HP acknowledges and understands.

12.1.4.3. Vermont Implementation

Note that certain schools in Vermont begin the school year in early to mid-August, and therefore those schools should have equipment installed and tested no later than June 26, 2013.

Response:

HP acknowledges and understands.

12.1.5. Professional Development

Professional development for the solution must be provided for the participating schools' teachers, leadership, and technical support personnel as addressed in **Section 10, Professional Development, Curriculum Integration, and Consultation** of this RFP. Bidder will include a professional development subplan as part of the Project Plan.

Response:

HP acknowledges and understands. A draft professional development subplan for the first year has been included in Section 10 of this response, and we understand and agree that we will further refine the subplan in cooperation with the Department and other MLTI State leadership.

12.1.6. Support and Service

The Provider will deliver ongoing technical support to the schools (on site and remote) for the period of the contract for the Provider's solution and its integration into the schools' academic program.

Response:

HP acknowledges and understands.



12.1.7. Timeline

The Bidder will propose a timeline, consistent with the RFP requirements, that it will commit to for the implementation process, commencing from approval of the Agreement to completion of the first year implementation. The timeline should include all major phases and milestones.

Response:

HP agrees to commit to the first year implementation process, showing major phases and milestones, commencing upon approval of this Agreement. HP has included a draft version of the implementation process on the following pages. This draft assumes contract signature January 31 and would be adjusted to the actual signature date.

Figure 4. Project Plan Timeline

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessor/Resource Name(s)	% Work Complete
1	★	Contract Signature	1 day	Thu 1/31/13	Thu 1/31/13		0%
2	★	Kickoff Meeting	2 days	Fri 2/1/13	Mon 2/4/13	1 ENA, HP, State of Maine	0%
3	★	Confirm communications plan - establish go-forward cadence					0%
4	★	Review and revise project plan					0%
5	★	Confirm owners, action items, follow up					0%
6	★	Confirm State of Maine role in decision-making, and define protocol					0%
7	★	Finalize District Opt-in terms and process with State of Maine					0%
8	★	Review current risk assessment and mitigation activities					0%
9	★	Maintain and update throughout project lifecycle					0%
10	★	Obtain existing blueprints/site drawings					0%
11	★	Identify preferred sequence of site installs					0%
12	★	Identify pilot site deployments					0%
13	★	Identify preferred sequence of site surveys to support install targets					0%
14	★	Determine final quantities, place final product orders	5 days	Mon 2/4/13	Fri 2/8/13		0%
15	★	Ongoing Project Meetings					0%
16	★	Internal vendor meeting (ongoing)		Fri 2/8/13		HP team	0%
17	★	Customer status meeting (ongoing - to assess deployment, training, service calls)		Fri 2/8/13		HP team & State of Maine	0%
18	★	HP Program Review (ongoing)		Thu 2/28/13		HP - internal	0%
19	★	HP Product delivery (actual delivery date TBD by need)	17 days	Fri 2/15/13	Mon 3/11/13	HP	0%
20	★	Develop Service Delivery handbook	8 days	Fri 2/15/13	Tue 2/26/13	HP	0%
21	★	Develop Issue Management and Escalation Process (internal & customer)	23 days	Fri 2/15/13	Tue 3/19/13	HP	0%
22	★	Create Invoicing and Payment Process	11 days	Fri 2/15/13	Fri 3/1/13	All - HP led	0%
23	★	Finalize Reporting Process and Initial Format	23 days	Fri 2/15/13	Tue 3/19/13	All - HP led	0%
24	★	Finalize Change Control Log	23 days	Fri 2/15/13	Tue 3/19/13	HP	0%
25	★	Develop Customer Acceptance Process and Document	11 days	Fri 2/15/13	Fri 3/1/13	HP & State of Maine	0%



ID	Task Mode	Task Name	Duration	Start	Finish	Professor/Resource Names	% Work Complete
26	✔	Confirm and complete site access/bidding requirements for all ENA and ENA managed resources.	5 days	Fri 2/1/13	Thu 2/7/13	ENA	0%
27	✔	Verify site access hours and advance notification process.					0%
28	✔	Conduct site surveys	30 days	Fri 2/1/13	Thu 3/14/13	ENA & State of Maine	0%
29	✔	Determine # of classrooms, approximate classroom size and number of students per classroom.					0%
30	✔	Identify all instructional areas outside of classrooms where ENA Wi-Fi is required.					0%
31	✔	Verify established building codes/ordinances and any special site requirements regarding make ready work.					0%
32	✔	Obtain IP address(es) of local domain controller/radius/LDAP server(s).					0%
33	✔	Plan AP distribution and placement (heat mapping).					0%
34	✔	Document AP placement in each room (Take a picture of the end location).					0%
35	✔	Determine mounting bracket needed for each AP.					0%
36	✔	Determine the IDF/MDF switch each AP will need to connect to.					0%
37	✔	Document the pathway the low voltage cable will follow - include rough footage.					0%
38	✔	Include rough footage.					0%
39	✔	Document the number of physical firewalls along wiring path between AP and IDF/MDF.					0%
40	✔	Document ceiling height (drop ceilings).					0%
41	✔	Plan POE switch placement relative to number of necessary ports and AP locations.					0%
42	✔	Document Switch placement in each IDF/MDF (Take a picture of the end location).					0%
43	✔	Determine if there is rack space or how switch will be mounted.					0%

ID	Task Mode	Task Name	Duration	Start	Finish	Professor/Resource Names	% Work Complete
44	✔	Verify adequate electrical power availability - (Open 110V/220V AC & Adequate wattage availability for MAX POE draw of all APs that will use POE/POE+ per closet).					0%
45	✔	Determine which IDF/MDF each switch will need to connect with.					0%
46	✔	Verify Router location and configuration.					0%
47	✔	Document Router location (Take a picture of the end location).					0%
48	✔	Determine if hardware or configuration change is needed to incorporate and connect new ENA.					0%
49	✔	Determine routing between WLAN(s) and other local area network resources.					0%
50	✔	Integrate ENA & subs support desk solutions	30 days	Mon 2/11/13	Fri 3/22/13	ENA & HP	0%
51	✔	Finalize call flow options.					0%
52	✔	Document call handling procedures and handoffs.					0%
53	✔	Create site collateral (e.g. how to contact HP team for assistance).					0%
54	✔	Complete and publish FAQs.					0%
55	✔	Complete staffing.					0%
56	✔	Train agents.					0%
57	✔	Build reports.					0%
58	✔	Wireless deployment (Deployment duration dependent on # of sites/Deployment options selected)	120 days	Fri 5/1/13	Thu 8/15/13	ENA	0%
59	✔	Create school district wireless policy (includes SSIDs, authentication mechanism, and bandwidth allocation rules, if any).					0%
60	✔	Install new hardware in on-site WAN/Internet router for additional Ethernet port for wireless LAN (if report currently available).					0%
61	✔	Install new POE switches and cabling for AP placement.					0%
62	✔	Install APs.					0%
63	✔	Acceptance Testing.					0%



ID	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	% Work Complete
64	🟢	Verify all APs for location register properly with ENA cloud-based controllers and Wi-Fi management system						0%
65	🟢	Audit AP configuration, using ENA automated configuration management tools. Verify all APs located on particular campus load appropriate school district policy.						0%
66	🟢	Audit campus heat map with APs installed and operational to determine if any gaps in coverage exist, or if RF signal strength needs to be adjusted						0%
67	🟢	Barclay sample tests						0%
68	🟢	With MLTI portable device, verify authentication methodology (based on district choice)						0%
69	🟢	With MLTI portable device, verify bandwidth throughput to ENA network core via http://speedtest.ena.com . Monitor test at AP, district router, and core to identify bandwidth bottlenecks (if any)						0%
70	🟢	With MLTI portable device, verify ability to move between APs while maintaining session						0%
71	🟢	While on-site, purposely disconnect one AP and verify outage shows up in monitoring. Reconnect AP						0%
72	🟢	Verify network visibility and appropriate system access from MLTI portable device to local network resources (printers, on-line directories, file servers, etc.)						0%
73	🟢	Complete Pilot Site installation & Acceptance Testing	10 days	Fri 3/1/13	Thu 3/14/13		ENA	0%
74	🟢	Document "lessons learned"; adjust process as/if required						0%
75	🟢	Review lessons learned document with customer stakeholders						0%
76	🟢	Develop reporting collateral	10 days	Mon 2/11/13	Fri 2/22/13		ENA	0%

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	% Work Complete
77	🟢	Sites completed this reporting period and progress against full scope deployment						0%
78	🟢	Sites planned for completion this reporting period but still outstanding, including any causes for delay and mitigation plan, if applicable						0%
79	🟢	Sites planned for completion the next reporting period, and full scope completion target dates through project end						0%
80	🟢	Rolling project risk assessment with mitigation plan and current status.						0%
81	🟢							0%
82	🟢	BEGIN ENA PD DEVELOPMENT/RECRUITMENT PLAN						0%
83	🟢	State-level Planning and Analysis	40 days	Mon 2/4/13	Fri 3/29/13		ENA PD Project Manager	0%
84	🟢	Schedule a kick-off planning meeting with the Professional Development Project Manager (for	15 days	Mon 2/4/13	Fri 2/22/13		ENA PD Project Manager	0%
85	🟢	Consult with selected Subject Matter Experts, currently Dr. Chris Dede or Dr. Purnya Mishra (for qualifying Tier 1 and Tier 2 states)	20 days	Mon 3/4/13	Fri 3/29/13		ENA PD Project Manager	0%
86	🟢	Consult with Professional Development Specialists (for qualifying Tier 1 and Tier 2 states)	20 days	Mon 3/4/13	Fri 3/29/13		ENA PD Project Manager	0%
87	🟢	Build a Plan	65 days	Mon 3/4/13	Fri 5/31/13		PD Specialist	0%
88	🟢	Establish Goals and Objectives	20 days	Mon 3/4/13	Fri 3/29/13		PD Specialist	0%
89	🟢	Survey HP MLTI participants to assess technology readiness and needs	65 days	Mon 3/4/13	Fri 5/31/13		PD Specialist	0%
90	🟢	Partners in Learning School Research – survey for school level technology use and needs					PD Specialist	0%
91	🟢	Teaching with Technology – survey and assessment for needs by individuals					PD Specialist	0%
92	🟢	Select professional development options	20 days	Mon 5/6/13	Fri 5/31/13		PD Specialist	0%
93	🟢	Coordinate delivery implementation with Project Manager and Professional Development Specialist (for qualifying Tier 1 and Tier 2 states)	20 days	Mon 5/6/13	Fri 5/31/13		PD Specialist	0%
94	🟢	Identify Workshop Attendees	45 days	Mon 6/3/13	Fri 8/2/13		PD Specialist	0%



ID	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	% Work Complete
95	+	Train the Trainer Workshops	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
96	+	Establish regional teacher trainer cadres	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
97	+	Leader-led Workshops	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
98	+	Identify mentor educator teams	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
99	+	Identify innovation leader teams	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
100	+	Professional Development Year 1 Rollout	35 days	Mon 6/17/13	Fri 8/2/13		PD Specialist	0%
101	+	Evaluation	20 days	Mon 1/6/14	Fri 1/31/14		ENA PD Project Manager	0%
102	+	Year 1 Review					ENA PD Project Manager	0%
103	+	Year 2 Planning					ENA PD Project Manager	0%
104	+	Repeat for subsequent years					ENA PD Project Manager	0%
105								
106		ENGINEN & SUBS DEPLOYMENT PLAN						0%
107	+	Requirements Discovery	18 days	Fri 2/1/13	Tue 3/26/13		ENA	0%
108	+	Meet with State to identify common configuration	2 days	Fri 2/1/13	Mon 2/4/13			0%
109	+	Meet with districts, if required, to identify customizations (app/settings)	21 days	Fri 2/1/13	Fri 3/1/13	108		0%
110	+	Document final image configuration(s)	5 wks	Fri 2/1/13	Thu 2/21/13	109		0%
111	+	Image Build	139 days	Fri 2/1/13	Wed 8/14/13		ENA & Subs	0%
112	+	Milestone - receive hardware and base manufacturing image sample from HP	0 days	Fri 2/1/13	Fri 2/1/13			0%
113	+	Milestone - Receive Applications/Licenses for Master Image	0 days	Fri 2/1/13	Fri 2/1/13			0%
114	+	Milestone - Receive District Custom Applications/Licenses	0 days	Fri 2/1/13	Fri 2/1/13			0%
115	+	Create Master Image	3.8 wks	Fri 2/1/13	Tue 2/26/13	108,112,1		0%
116	+	Create District Customizations/Task Sequences	10 wks	Mon 2/11/13	Fri 4/19/13	109,115,1		0%
117	+	Test image / Task Sequence install on Hardware	4 days	Tue 3/19/13	Fri 3/22/13	116		0%
118	+	Test image / Task Sequence install from USB Drive	2 days	Mon 3/25/13	Tue 3/26/13	117		0%
119	+	Test image / Task Sequence install from PXE Boot	2 days	Wed 3/27/13	Thu 3/28/13	118		0%
120	+	Test District / School Setup Process	5 wks	Tue 3/19/13	Mon 4/22/13	116		0%
121	+	Test HP Manufacturing Image Process	50 days	Mon 4/22/13	Mon 7/1/13			0%
122	+	Milestone - Deliver Master Image to HP Manufacturing	0 days	Tue 4/23/13	Tue 4/23/13	120		0%

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	% Work Complete
123	+	Milestone - Receive Sample Imaged hardware from HP Manufacturing	0 days	Tue 5/21/13	Tue 5/21/13	122FS=20 days		0%
124	+	Test Master Image on sample machines (for Each District scenario)	5 wks	Tue 5/21/13	Mon 6/24/13	123		0%
125	+	Report bugs or supply image updates to HP and re-test	0 days	Tue 6/25/13	Tue 6/25/13	124		0%
126	+	Milestone - Send approval to HP Manufacturing	0 days	Tue 7/2/13	Tue 7/2/13	125FS=5 days		0%
127	+	Documentation & Training	50 days	Tue 1/1/13	Mon 3/11/13			0%
128	+	Create Documentation for ETD for Imaging	2 wks	Tue 1/1/13	Mon 1/14/13	115		0%
129	+	Create Documentation for end users	1 wk	Tue 1/15/13	Mon 1/21/13	128		0%
130	+	Create online training/videos (?)	8 wks	Tue 1/22/13	Mon 2/11/13	129		0%
131	+	Deliver online training	4 wks	Tue 2/12/13	Mon 3/11/13	130		0%
132	+	Labtech RMM Account Configuration	51 days	Wed 5/15/13	Wed 7/24/13			0%
133	+	Create Labtech RMM Accounts and Groups for each District	3 wks	Wed 5/15/13	Tue 6/4/13	108		0%
134	+	Create and copy Global Policies	1 wk	Wed 5/15/13	Tue 5/21/13	133		0%
135	+	Create District specific policies	5 wks	Mon 5/20/13	Fri 6/21/13	134		0%
136	+	Create school specific policies	2 wks	Mon 5/27/13	Fri 6/7/13	135		0%
137	+	Ship devices from HP to district	10 days	Mon 7/15/13	Mon 7/29/13			0%



12.1.8. Project Staffing

An in-State experienced, qualified, and effective project team will be identified and provided, subject to approval by the Department's Agreement administrator. The Bidder will provide a description of its project staffing plan for all phases and tasks. Identify each senior staff member and complete for each the form in Appendix G in order to demonstrate your staff's experience with projects similar to this one. At a minimum, the Provider will maintain an in-State team for the length of the project made up of a Project Manager, Educational Specialist, Professional Development Specialists, and Technical Engineers sufficient to implement and support the program.

Response:

HP understands and will provide staffing positions defined above for the duration of the project. HP agrees to maintain an in-state team including Project Manager and Professional Development Specialist. HP takes exception to the requirement to provide in-state resources for the Educational Specialist and Technical Engineer positions.

At this time, HP anticipates the Educational Specialist position to be a part of the planned national HP project management office for this initiative. HP expects to fill and locate these positions in various centralized regional locations, preferably within states that are participating with this initiative.

Furthermore, HP anticipates a regional depot to support Maine, Massachusetts, New Jersey and Vermont to be located at our HP Andover, Massachusetts location. HP further anticipates a regional depot in Hawaii dedicated to Hawaii's deployment.

12.1.9. Coordination with Schools

The Provider will work with the Department and each school and its principal or principal designee to determine via any necessary site surveys the local requirements necessary to implement the solution as well as any local change requirements and costs, and will coordinate the installation of its solution with each school's changes. These local change requirements would include not only the basic solution but also any additions or adaptations that a school elects to implement at its own local cost (e.g., switches, hubs, software, hardware, adaptive devices). The Provider must accommodate school schedules and needs, even if this requires some alteration of the Provider's customary schedule. Such accommodation must not include any additional, premium or overtime charges.

Response:

The HP Project Manager and Curriculum Development Manager will work with the State to coordinate with each school district basic time frames for deployment of infrastructure and then work with each school to meet those objectives. HP fully understands the demands on the schools from internal and external groups for the use the facilities and will work to ensure a schedule that meets the needs of the school as well as the requirements of the program. HP is prepared to perform some work after hours and weekends depending on the availability of the facility and staff to allow HP access into the areas we need to work in.



12.1.10. Work Within Schools

Each Bidder will succinctly describe the basic physical characteristics of the proposed equipment including dimensions, weights, electrical, HVAC and any other specifications vital to know. All required cables, wires, mounts and connectors will be specified by the Bidder.

All cabling, wiring, connectors and mounts will be installed in a manner which results in safe and secure facilities. No hazards will be created; any identified hazard will be pointed out to appropriate site or Department personnel. Installations must be performed in a manner which does not harm or diminish local site designs, structural integrity or – to the extent feasible – cosmetics. Installations will meet all prevailing local codes and governing body codes as well as IEEE, TIA/EIA and ISO/IEC standards for cabling and wiring.

- IEEE - Institute of Electrical and Electronic Engineers
- TIA/EIA - Telecommunications Industry Association/Electronic Industry Association
- ISO/EIC - International Organization for Standardization/Equipment Installer's Code

Response:

The wireless access points installed on premise as part of the ENA Air service are 6.7"L x 6.7" W x 1.6" H. They weigh .36 kg. They will be installed either at the ceiling or higher than 7' above ground along a wall, and all installations will be safe and secure and designed not to harm or diminish local site designs, structural integrity, or cosmetics. All ENA Air installations provide both 2.4 Ghz and 5 Ghz wireless coverage and meet IEEE standards for both 802.11 b/g/n (2.4 Ghz) as well as IEEE 802.11 a/n (5 Ghz). The Power over Ethernet switches that will be installed as part of the ENA Air service are 17.4" W x 14.4" D x 1.75" H. They weigh 12.36 lbs and require input voltage of up to 240 VAC. All installed copper Ethernet cabling will meet or exceed TIA/EIA-568 Update A5 guidelines for Enhanced Category 5 (Cat 5e), and meet all local low voltage installation standards. Cabling will also be ISO/IEC 11801 compliant to support a maximum frequency of 100 Mhz for Category 5e.

12.1.11. Change Control

A change control process will be utilized. The Provider must ensure that system and site changes are implemented effectively, reasonably, are documented and scheduled — and must ensure good communication with those affected by the changes, both before and after the change.

Response:

HP has a well-established change control process which will be utilized to ensure that system and site changes are implemented effectively, reasonably and are documented and scheduled. Our process is time-tested and will ensure excellent communication with those affected by the change, both before and after.

12.1.12. Project Management Reporting

The Provider will submit on the last working day of each month a detailed monthly progress report to the Department's Project Manager, starting with the first month of the Agreement. Among other things, this report must include a monthly summary of the performance metrics specified earlier. The Provider may be requested to supply additional information as warranted.



Response:

HP's PMO will provide to State by the last workday in each week a report of the week's activities sortable by school and district, containing any and all deployment activities of portable computing devices and/or wireless installations. To be included in the report will be training activities with names or trainer, and number of attendees receiving the training. In addition, HP's PMO will provide updates on any outstanding program issues, procurement cycle updates, staffing changes, and a listing of any change requests and their current status.

HP's PMO will provide a monthly report to State with a complete listing of incidents, Device and system failure types, downtime, repair turnaround times, trends, remediation needed, unresolved issues, recommended improvements and other factors necessary to ensure a successful project.

12.1.13. Ongoing Improvements

Since the Department is vitally interested in investing in solutions which have long-life and upgradeability to provide continuing and enhanced capabilities over time, including migration to evolving standards, each Bidder must describe its solution's ability to adapt to or to incorporate improved technology. Fully describe how you would identify progressions in technology and integrate them into products previously installed at customer sites. Examples might be incorporation of an emerging wireless standard or upgrades to the core operating system and application software.

The Department is seeking a solution that adheres to industry standards and open systems architectures as versus proprietary solutions. Each Bidder must identify whether its solution includes proprietary aspects and, if it does, will provide in its proposal a schedule and a plan to the Department for the Provider's migration to industry standards - or state that it intends to continue pursuing its proprietary approach.

Response:

HP and its partners have proposed a solution that keeps up with the best technology available. We have described throughout our response in sections 6 (device and software) and 7 (wireless network) how we will adapt to incorporate new and improved technology throughout the life of our relationship. We have chosen industry standard equipment for our device, all included software and our wireless solution so to ensure that the Department and all MLTI participants will see the benefit of changing technologies as they are incorporated into our chosen solutions.

HP and its partners will meet with the Department and leaders of other MLTI state participants to discuss our technology roadmap annually and will seek both input and collaboration as we incorporate those changes within the MLTI.



Appendix G – Additional Forms – Staff Experience with Similar Projects

Instructions: Provide the following information to describe each senior staff member’s experience with a similar project(s) – one form for each project. The information your firm provides will be used to evaluate your staff’s experience with projects similar to the work described in this RFP. The Evaluation Team will also use the references your firm provides to verify the work.

Employee Name To be determined Employee Position Education Strategist, Americas

Firm Name Hewlett Packard Company

Name of Client: _____

Type of Entity: _____ Government _____ School _____ Non-profit _____
_____ For-Profit Private Sector

1. Approximate number of users on the client’s system: _____

2. Approximate dates of engagement: From _____ To _____

3. Describe the purpose and objectives of work.

4. Describe the nature of work performed.

5. Describe the employees’ role relative to this client’s project.

6. Describe the employees’ role relative to this RFP.

In addition to state-level education strategists working on curriculum and transitions with key state officials, HP proposes to centralize the strategists so there is a degree of best practice sharing between participating states. HP would arrange internal meetings of its strategists monthly to review state-by-state progress, issues, challenges and results. Further, HP proposes hosting quarterly web conferences with the strategists and key state officials to maintain open lines of communication throughout the year (beyond the summer institutes previously discussed in Section 10).

The state-level strategists/specialists will also report to HP’s Education Strategist for the Americas region. The Education Strategist and team collaborates with educational institutions across the Americas on comprehensive educational technology initiatives that foster 21st century skills, as well as assist with major HP customer academic initiatives around the world. A former school administrator and adjunct professor of communication, the Education Strategist holds undergraduate and graduate degrees from Hofstra University in New York.

The Education Strategist has won over 60 state and national awards in school public relations, delivers speeches on technology and communication in education nationwide, most recently the keynote speaker at the 2011 CCSSO National Conference on Student Assessment, is a past columnist for Electronic School, School Administrator and American School Boards Journal, and has been interviewed for many leading educational publications over his/her career.

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position TS Americas Transition Manager

Firm Name Hewlett-Packard Company

Name of Client: State of Maine MLTI Initiative

Type of Entity: Government School Non-profit
 For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From 2/1/2013 To 7/31/2013

3. Describe the purpose and objectives of work.

Successful deployment of portable computing devices to schools in participating states

4. Describe the nature of work performed.

Work with the PMO to transition the program from contract signing to steady-state service

5. Describe the employees' role relative to this client's project.

Transition project management

6. Describe the employees' role relative to this RFP.

Assist the Senior Project Manager with input to applicable sections of the RFP response

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position TS Americas Transition Manager

Firm Name Hewlett-Packard Company

Name of Client: State of Maine MLTI Initiative

Type of Entity: Government School Non-profit
 For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From 2/1/2013 To 7/31/2013

3. Describe the purpose and objectives of work.

Successful deployment of portable computing devices to schools in participating states

4. Describe the nature of work performed.

Work with the PMO to transition the program from contract signing to steady-state service

5. Describe the employees' role relative to this client's project.

Transition project management

6. Describe the employees' role relative to this RFP.

Assist the Senior Project Manager with input to applicable sections of the RFP response

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position HP Customs Operations Manager

Firm Name Hewlett-Packard Company

Name of Client: U.S. Department of Veterans Affairs

Type of Entity: Government School Non-profit
 For-Profit Private Sector

1. Approximate number of users on the client's system: 300,000

2. Approximate dates of engagement: From 2/1/2008 To present

3. Describe the purpose and objectives of work.

Data Center Care and Data Storage network

4. Describe the nature of work performed.

Program management

5. Describe the employees' role relative to this client's project.

Senior Project Manager – Manage the PMO and Service operations

6. Describe the employees' role relative to this RFP.

Provided HP Technology Services input to applicable sections of the RFP

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position Professional Development Project Manager

Firm Name Education Networks of America, Inc. (ENA)

Name of Client: _____

Type of Entity: _____ Government _____ School _____ Non-profit _____
_____ For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From 3/2013 To TBD

3. Describe the purpose and objectives of work.

The primary role of the Professional Development Project manager is to manage the various professional development partners and programs.

4. Describe the nature of work performed.

The Professional Development Project Manager is in charge of overseeing the planning, organization, implementation and control of the professional development resources offered by HP to qualifying MLTI participants ensuring the program is executed with a high degree of quality and customer satisfaction.

5. Describe the employees' role relative to this client's project.

See Item #6.

6. Describe the employees' role relative to this RFP.

The roles and responsibilities of the ENA Professional Development Project Manager includes, but is not limited to the following:

- Meet with State Department of Education to outline the goals and objectives of the professional development program
- Meet with the Professional Development Specialist to assist in the communication plan and creating a schedule of regional and district professional development programs
- Over site and collaboration of a state communication plan for the PD program offerings
- Review and management of professional development goals and objectives meeting scope, and quality review.
- Collaboration with State Department of Education, Professional Development Specialist, HP and professional development partners to evaluate and review programs for continuous improvement.

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position Professional Development Specialist

Firm Name Education Networks of America, Inc. (ENA)

Name of Client: _____

Type of Entity: _____ Government _____ School _____ Non-profit _____
_____ For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From 3/2013 To TBD

3. Describe the purpose and objectives of work.

The Professional Development Specialist will work closely with the State Department of Education, the Professional Development Project Manager and participating districts and schools in professional development program planning and in assuring a successful roll out of training programs for attendees.

4. Describe the nature of work performed.

The Professional Development Specialist will work within the state to assure quality training, review, access to professional development programs and support, and assessment of overall training and PD results.

5. Describe the employees' role relative to this client's project.

See Item #6.

6. Describe the employees' role relative to this RFP.

The roles and responsibilities of the Professional Development Specialist include, but are not limited to the following:

- Meet with State Department of Education, subject matter experts and Professional Development Project Manager to develop a professional development roll out plan
- Assess learning needs of the participating trainers, leaders and educators at the state, regional, local and district levels
- Develop and coordinate training schedules
- Communicate training opportunities, success, and results to state and districts
- Ensure quality delivery and access to the training programs for trainers, leaders, educators, and technology support personnel in partnership with state level representatives
- Maintain consistent records of program implementation, participation of attendees in professional development programs
- Review and adjust professional development program to meet changing needs and emerging educators
- Manage a schedule and registration process for professional development programs

Current Supervisor's Name: _____

Phone Number: _____

Project Supervisor's Name*: _____

Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Employee Name To be determined Employee Position Network Engineer

Firm Name Education Networks of America, Inc. (ENA)

Name of Client: ENA will staff team members on the MLTI project who have had experience with other K-12 public school systems

Type of Entity: _____ Government X School _____ Non-profit _____
_____ For-Profit Private Sector

1. Approximate number of users on the client's system: _____

2. Approximate dates of engagement: From _____ To _____

3. Describe the purpose and objectives of work.

The primary role of the Network Engineer is to support the technical needs of MLTI participants and to maintain the highest levels of service availability, performance and growth all with the utmost respect, professionalism and courtesy.

4. Describe the nature of work performed.

The Network Engineer is in charge of implementing, supporting and maintaining existing network and solution architectures. This person provides escalation and design-level support for customer issues and coordinate third party vendor interaction to ensure prompt and professional resolution.

5. Describe the employees' role relative to this client's project.

See Item #6.

6. Describe the employees' role relative to this RFP.

The roles and responsibilities of the Network Engineer include, but is not limited to the following:

- Implement and support solution architectures with some design responsibilities as needed
- Administer and maintain existing network. Provide escalation support for customer issues and coordinate third party vendor interaction to ensure prompt and professional resolution
- Knowledge transfer, cross-training, and documentation in a group setting
- After-hours on-call support rotation

Current Supervisor's Name: _____ Phone Number: _____

Project Supervisor's Name*: _____ Phone Number: _____

* Name of supervisor(s) while working on the above Client project.

Appendix G – Additional Forms – Portable Computing Device Specifications Summary

Instructions: Complete this worksheet for each type of technology solution proposed. Fill in each blank with the requested information. You may attach additional pages to provide complete information where required. This bid does not require that all these fields be accounted for, but if a Bidder is providing an option that fits one of these categories, these fields must be completed. Please specify which items are optional, if any. If additional items (fields) need to be added to this list of products and services to best reflect your proposed solution, please make note of this and add any necessary data.

Network Connectivity

Wireless Type 802.11 a/b/g/n Speed Up to 150 mbit/s
Wired Type RJ-45 Speed Up to 1000 mbit/s
Modem Type None Speed _____

Portable Device(s)

Manufacturer HP Processor Speed 1.9 GHz
Chip Manufacturer Intel Chip Type Dual Core Celeron

Random Access Memory

Chip Type DDR3 DC3-10600 Capacity 2 GB/Supports up to 8GB

<u>Data</u>	<u>Type</u>	<u>Capacity</u>	<u>Speed</u>
Mass Storage	<u>HDD</u>	<u>320 GB</u>	<u>5400RPM</u>
Optical Drive	<u>DVD RW</u>	<u>8.5 GB</u>	<u>160ms</u>
Removeable Media	_____	_____	

Audio Subsystem

Chipset Manufacturer SRS Model _____
Audio in Type(s) Dual Microphone Array – Standard Microphone Jack
Audio out Type(s) Stereo Speakers – Stereo Headphone/Line Out

Video Subsystem

Chipset Manufacturer Intel Model Graphics Media Accelerator
VRAM Capacity Dynamic Ext. Output type HDMI/VGA

Monitor Display

Display Size 14" Characteristics LED Backlit
Resolution 1366 x 768

Input

Keyboard Type Built In Size Full Size
Pointing Device Type (check all that apply)
Touch Pad Yes Acutrack _____
Roller Ball _____ External Mouse _____
Other _____ Explain _____

Battery

Type 6 Cell Duration Up to 7 hrs

Method of Charging AC Adapter Spare battery(y/n) Yes

Power Supply/Battery Charger

Integrated (y/n) No Separate (y/n) Yes

Alternate Power Source

Dimensions

Weight – Device only 4 lbs. 13 oz. Size 13.35 x 9.27 x 1.10 in

Carry Weight with Power Supply, Power Cord, required accessories and Carrying Case

The HP 4440s with the power cord and Targus TSS534US laptop skin has a carry weight of 6.16 lbs.

Accessories

QL490AA	HP 30 Notebook Managed Charging Cart
A840943	Microsaver Keyed Notebook Lock
A805410	APC Essential SurgeArrest 6 Outlet 2 FT
A856126	APC Essential SurgeArrest 6 Outlet 10 F
A888487	Belkin Anti Smudge Screen Protector 4PK
A855810	20CT Cleaning Wipes 3X Clean Supplies
A510609	ACM-70 Stereo Headphone 3.5MM Plug
A845820	ViewSonic PJD6223 Networkable XGA Projector
A842461	ViewSonic PLED-W500 Portable LED Projector
QL488AA	HP 20 Notebook Charging Cart
BT796AA	HP 90W Slim Adapter
QK646AA	HP PR06 Notebook Battery
A2U57AA	HP Mobile USB nLS DVDRW Drive
H1L08AA	HP 3005pr USB3.0Port Replicator
H1L07AA	HP 2005pr USB2.0Port Replicator
UK711E	HP 1y PickupReturn/ADP Notebook Only SVC
UQ873E	HP 2y PickupReturn ADP Notebook Only SVC
UK712E	HP 3y PickupReturn/ADP Notebook Only SVC
UK723E	HP 4y Pickup and Return/ADP NB Only SVC

Ruggedness

Fully describe features of all components (to include but not be limited to keyboard, laptop case, etc.) designed to withstand extensive use and possible abuse by students.

HP commercial notebooks are engineered to withstand the rigors of mobile users. As such, they integrate a number of important durability and reliability features, and do not have parts that can be easily removed, tampered with, or broken.

The HP ProBook 4440s includes a spill resistant keyboard, brushed aluminum finish for durability and style, and wear-resistant HP DuraFinish to keep the keyboard looking newer longer.

The Targus Notebook Skin with Handle is designed to fit up to 14” notebooks with an extended battery and 14” notebooks without the extended battery. The durable weather-resistant neoprene material helps protect the notebook against drops and scuffs while guarding against the elements. The soft, scratch-resistant interior lining provides confidence that your notebook will be protected when stored inside. A large size zippered compartment provides additional space to store a power adapter and the interior of the case also features a mesh pouch for additional storage. This notebook skin features a thin, low-profile design with a padded retractable handle making it easy to carry on its own or inside of another case.

Please describe other Portable Device specifications

Appendix G – Additional Forms – Wireless Local Area Network (WLAN) Specifications Summary

Manufacturer Aerohive

Wireless Transmission Rate of 450 MB/sec at a range of 50 feet
450 MB/sec at a range of 100 feet
450 MB/sec at a range of 200 feet
Maximum Range of 750 feet

Full disclosure of the capabilities and limitations of the wireless technology proposed must be included such as interference between classrooms, distance and object penetration data, and susceptibility to interference from outside sources.

Although there are certainly variations in wireless performance due to distinctions between wireless access points from different manufacturers, ENA's experience has been that most access points that provide IEEE 802.11 a/b/g/n will suffer similar interference from infrastructure, construction materials, and outside sources. The difference with ENA Air managed wireless service, is that ENA constantly monitors wireless coverage, density and efficacy throughout the life of our service, and will make ongoing changes to the service implementation as required to optimize coverage and throughput. We also monitor interference from objects that can cause interference in the 2.4 Ghz and 5 Ghz ranges, such as unmanaged rogue APS, unshielded microwaves or inexpensive Bluetooth devices. Generally speaking, ENA's implementation, using Aerohive access points, can easily penetrate most classroom walls, including cinder block, drywall, or wood panelling. We have been successful penetrating multiple drywalls with a single access point, but in cinderblock construction, RF interference from the building material generally requires an access point to be placed in every other classroom, so that any one client is only transmitting through a single wall.

Please describe the average amount of time in hours per month the system will be down for regular scheduled maintenance. Also describe how maintenance will be accomplished so that the impact on system availability is minimized.

ENAAir service uses a highly available, cloud-based controller and management infrastructure that is installed in our core network POPs, which themselves have redundant power and multiple network interconnection paths. We expect no monthly downtime for regularly scheduled maintenance, as we are generally able to perform maintenance without any outage to our core infrastructure. Local outages may occur for no more than 10 minutes when we upgrade the firmware of the locally installed access points. We expect to upgrade firmware no more than 3 times a year, and will do so after hours and in coordination with local technology staff.

Please describe how backup systems will be utilized so that the impact on system availability is minimized.

ENA Air uses triple resiliency architecture to ensure optimal uptime and throughput. At our core, we use a geographically redundant management and monitoring infrastructure so that we can continue to manage and gather monitoring and reporting data from each ENA Air site even in the event of catastrophic failure to any one of our management nodes. Secondly, the Aerohive access points we will install as part of the ENA Air service create a local virtual controller that can continue to provide full local service, including all local SSIDs,

wireless access policies and integration with local user authentication sources, even in the event that network connectivity to one or both of our core management nodes is lost.

Third, ENA Air's implementation normally includes enough coverage overlap so that if one or multiple local access points fail, neighboring access points will automatically note the failure of a neighbor and immediately invite the clients that had been connected to the failed access points to re-connect, so that no local loss of connectivity occurs.

Please describe other WLAN specifications

ENA Air service provides fully compliant 802.11 a/g/n wireless service on both the 2.4 Ghz and 5 Ghz ranges designed to work with any 802.11-compliant device. Please see below for our specific radio specifications:

- Radio Specifications—802.11a
 - 5.150–5.950 GHz Operating Frequency
 - Orthogonal Frequency Division Multiplexing (OFDM) Modulation
 - Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/ auto fallback
- Radio Specifications—802.11b
 - 2.4–2.5 GHz Operating Frequency
 - Direct-Sequence Spread-Spectrum(DSSS) Modulation
 - Rates (Mbps): 11, 5.5, 2, 1 w/ auto fallback
- Radio Specifications—802.11g
 - 2.4–2.5 GHz Operating Frequency
 - Orthogonal Frequency Division Multiplexing (OFDM) Modulation
 - 20 dBm (100 mW) Transmit Power
 - Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/ auto fallback
- Radio Specifications—802.11n
 - 2.4–2.5 GHz & 5.150–5.950 GHz Operating Frequency
 - 802.11n Modulation
 - Rates (Mbps): MCS0–MCS23 (6.5Mbps - 450Mbps)
 - 3x3:3 Stream Multiple-In, Multiple-Out (MIMO) Radio
 - HT20 (both 2.4GHz and HT40 High-Throughput(HT) Support)
 - A-MPDU and A-MSDU Frame Aggregation

Section III—Cost Proposal

1. General Instructions

- a. The Bidder must submit a cost proposal that covers the entire period of the contract, including any optional renewal periods.

Response:

HP has read and acknowledges.

- b. The cost proposal shall include the costs necessary for the Bidder to fully comply with the contract terms and conditions and RFP requirements.

Response:

HP has read and acknowledges the cost proposal complies with the proposed contract terms and conditions and RFP requirements.

- c. Failure to provide the requested information and to follow the required cost proposal format provided in Appendix B may result in the exclusion of the proposal from consideration, at the discretion of the Sourcing Team.

Response:

HP acknowledges and complies with the RFP required cost proposal format. Price Notes are provided to assist the evaluation team with understanding the Cost Proposal represented, and respective of the possible financial arrangements requested. We respectfully request an opportunity to discuss an updated presentation if the Price Notes are deemed cause for exclusion from consideration.

- d. No costs related to the preparation of the proposal for this RFP or to the negotiation of the contract with the Sourcing Team may be included in the proposal. Only costs to be incurred after the contract effective date that are specifically related to the implementation or operation of contracted services may be included.

Response:

HP has read and acknowledges.



Appendix B

State of Maine Department of Education
in coordination with the
National Association of State Procurement Officials
COST PROPOSAL FORM

RFP # 201210412
MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Instructions: Bidders must complete the form below in order to have their proposals considered in this procurement process.

Bidder's Organization Name: Hewlett-Packard Company

Please Note:

- The participating states and entities involved with this procurement process recognize that costs can vary in accordance with the “commitment” and “readiness” of individual participating entities that are interested in implementing this learning technology program. With that in mind, Bidders are asked to submit tiered pricing, as indicated below. The structure that determines a participant’s “tier” is shown on Appendix C.
- Costs for equipping students/teachers with learning technology and associated services must be proposed on a per-seat basis, as shown in Table 1, below.
- It is anticipated that total per-seat participation in this multi-state program will increase throughout the duration of the contracts that result from this RFP. Participating entities seek a discount of the pricing proposed by interested Bidders in Table 1 for every increase of 500,000 seats.
- Costs for setting up a wireless network within a participating school must also be provided on a per-seat basis, but these network costs must be provided separately, on Table 3, below. A state’s aforementioned “tier” is irrelevant to its need for a wireless network to support this program, so only one cost figure is required, which would be applicable for all participating entities (on a per-seat basis).
- Table 4 has been provided for Bidders to list “optional features” that has been specified within the RFP (for example, optional “no fault” insurance coverage or Section 6.7).

COST PROPOSAL FORM

RFP # 201210412 MULTI-STATE LEARNING TECHNOLOGY INITIATIVE

Table 1 – Student/Teacher Learning Technology Solution Costs

Cost proposed per-seat for Tier 1 participants:	\$254.86 per-seat per-year * **
Cost proposed per-seat for Tier 2 participants:	\$285.73 per-seat per-year * **
Cost proposed per-seat for Tier 3 participants:	\$307.10 per-seat per-year * **

Table 2 – Volume Discount Factor

Percentage discount proposed to Table 1 prices for every 500,000 seats of increased participation:	0.0 % ***
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Table 3 – School Wireless Network Costs

Cost proposed per-seat for all participants:	\$30.91 per-seat per-year
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Table 4 – Optional Features

HP 4440s Educational Charging Carts	
QL490AA HP 30 Notebook Secure Managed Charging Cart	\$1,970.00
QL488AA HP 20 Notebook Secure Charging Cart	\$1,465.00
Datamation 4440s Charging Options	
A899783 5-pocket, 1.5A, 5 recal bays	\$645.00
A899782 5-pocket charger for 9 cell battery	\$841.00
A899781 5-pocket, 9-cell, 2 cal bays	\$872.00
A899780 5-pocket, 9-cell, 2 cal bays	\$987.00
A899779 10-pocket charger for 6-cell	\$1,045.00

A899778 10-pocket, 6-cell, 2 cal bays	\$1,068.00
A899777 10-pocket charger for 9-cell battery	\$1,088.00
A899776 10-pocket, 9-cell, 2 cal bays	\$578.00
Extra 4440s AC Adaptor	
BT796AA HP 90W Slim Adapter	\$36.00
Extra 4440s Battery	
QK646AA HP PR06 Notebook Battery	\$25.00
External Optical Drive	
A2U57AA HP Mobile USB DVDRW	\$42.00
Extended 4440s Carepack Warranty Options	
UK711E HP 1y PickupReturn/ADP Notebook Only SVC	\$22.01
UQ873E HP 2y PickupReturn ADP Notebook Only SVC	\$53.46
UK712E HP 3y PickupReturn/ADP Notebook Only SVC	\$89.40
UK723E HP 4y Pickup and Return/ADP NB Only SVC	\$138.81
4440s Port Replicators	
H1L08AA HP 3005pr USB 3.0 Port Replicator	\$98.00
H1L07AA HP 2005pr USB 2.0 Port Replicator	\$74.00
Cases for the 4440s	
A899995 Infocase Classmate 14 Always On Case	\$22.68
CVR400 Targus CityLite Notebook Case	\$19.00
CVR600 Targus Groove Backpack	\$19.00

TSB007US Targus Sport Backpack	\$13.00
TSB219US Targus Brilliance II Backpack	\$19.00
TSS534US Targus Laptop Skin with Handle	\$14.00
TSS58315US Targus Gravity i.6 Sleeve - Black and Blue	\$10.00
TSS58316US Targus Gravity i.6 Sleeve - Black and Red	\$10.00
Absolute Software for 4440s	
A899173 Computrace Complete for 3 years	\$50.49
A899174 Computrace Complete for 4 years	\$62.41
A782324 Absolute Manage CT Modular Add-On 3yr SLED	\$19.33
A782322 Absolute Manage CT Modular Add-On 4yr SLED	\$24.77
Adobe Software for 4440s	
A894883 Adobe Photoshop Elements	\$32.94
A894884 Adobe Premier Elements	\$32.94
A894531 Adobe Acrobat Professional	\$65.86
A876982 Adobe Audition CS6	\$77.55
Optional Tablet Bundle	
HP ElitePad 900 Bundle (unit, expansion jacket, battery, and carry sleeve)	\$630.00
Optional Computing Hardware	
A5K36AV HP Probook 4440s i3 320GB	\$464.00
A5K36AV HP Probook 4440s i5 500GB	\$578.00
B7S86AV HP Elitebook Folio 9470m	\$763.00

QV996AV HP Elite 8300 Small Form Factor Desktop	\$505.00
QV985AV HP Pro 6300 Small Form Factor Desktop	\$409.00
High Capacity Workstation	
A3J45AV Z220 Small Form Factor Workstation	\$735.00
HP Display Options	
XN376AA HP LA2206X LED LCD Monitor	\$146.00
XW477A4 HP COMPAQ LA2205wg LCD Monitor	\$282.00
HP Printing Options	
CC395A HP LaserJet M9050 MFP	\$7,807.00
CD645A HP LaserJet Ent 500 MFP M575f Printer	\$1,999.00
CM749A HP Officejet Pro 8600 e-AiO Printer N911a	\$170.00
CM752A HP Officejet Pro 8100 Printer N811a	\$126.00
Other Available 4440s Options	
A840943 Microsaver Keyed Notebook Lock	\$34.00
A805410 APC Essential SurgeArrest 6 Outlet 2 FT	\$5.00
A856126 APC Essential SurgeArrest 6 Outlet 10 FT	\$9.00
A888487 Belkin Anti Smudge Screen Protector 4PK	\$39.00
A855810 20CT Cleaning Wipes 3X Clean Supplies	\$4.00
A510609 ACM-70 Stereo Headphone 3.5MM Plug	\$3.00
A845820 ViewSonic PJD6223 Networkable XGA Projector	\$442.00
A842461 ViewSonic PLED-W500 Portable LED Projector	\$547.00

A845937 CTH470 Bamboo Capture Pen Tablet SM W/Multitouch	\$79.00
HP Printing Supplies	
C8543X HP LaserJet 9040 Black Print Cartridge	\$260.49
CE255A HP LaserJet P3015 6K Print Cartridge	\$124.15
CE255X HP LaserJet P3015 12.5K Print Cartridge	\$193.05
CN045AN HP 950XL Black Officejet Ink Cartridge	\$32.36
CN046AN HP 951XL Cyan Officejet Ink Cartridge	\$24.49
CN047AN HP 951XL Magenta Officejet Ink Cartridge	\$24.49
CN048AN HP 951XL Yellow Officejet Ink Cartridge	\$24.49
CN049AN HP 950 Black Officejet Ink Cartridge	\$22.43
CN050AN HP 951 Cyan Officejet Ink Cartridge	\$15.96
CN051AN HP 951 Magenta Officejet Ink Cartridge	\$15.96
CN052AN HP 951 Yellow Officejet Ink Cartridge	\$15.96
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
McREL Balanced Leadership for Leaders Face-to-Face Workshop (2 Days)	\$14,000/per 2-day workshop

McREL Managing Change for Leaders Follow-up Workshop Face-to-Face Workshop (2 Days)	\$14,000/per 2-day workshop
Microsoft Innovative Educator (MIE) Program with Windows in the Classroom Face-to-Face Workshop (2+1 Days)	\$5,750 per 2-day workshop \$6,875 per 3-day workshop
Intel Transforming Learning with 1:1 Course: Learning with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Transforming Learning with 1-1 Course: Student Engagement with One to One Face-to-Face Workshop (3 Days)	\$6,875 per 3-day workshop
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Project-Based Approaches 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Assessment in 21st Century Classrooms 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Collaboration in the Digital Classroom 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Educational Leadership in the 21st Century 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Teach Elements Series Facilitated Online Training <ul style="list-style-type: none"> • Thinking Critically with Data 	\$120 per educator/minimum of 10 and maximum of 30 educators per session
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Preparing for Online Assessments and choosing the Right Device for Your Environment 	\$3,125 per day \$625 per webinar

Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Moving from Print to Digital Text and Blended Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • BYOD: Bring Your Own Device Personalized Learning 	\$3,125 per day \$625 per webinar
Intel Workshop/Webinar Series (1 Day Workshop or 1 Hour Webinar) <ul style="list-style-type: none"> • Using Technology to Support the Common core State Standards 	\$3,125 per day \$625 per webinar
Common Sense Media Onsite Seminar – From Digital Students to Digital Citizens (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Be an Upstander! Addressing Cyberbullying in Schools (Half day or Full day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Keeping Track of Privacy and Digital Footprints (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – How to Respect Creative Work in Copy-past Culture (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
Common Sense Media Onsite Seminar – Getting Smart about E-Rate (Half Day or Full Day Seminar)	\$4,375 per half-day seminar \$6,875 per full-day seminar
ClassLink LaunchPad Basic for Teachers (Half Day Remote Class)	\$575 per half day remote class
ClassLink Train-the-Trainer Turnkey Training for Your Leaders (Half Day Remote Class)	\$1,250 per half day remote class
ClassLink Advanced Onsite Launching School Improvement Class Face-to-Face Workshop (1 Day)	\$1,875 per 1-day workshop
Technical Training for HP Devices Face-to-Face Workshop (2 Days)	\$5,750 per 2-day workshop

*Notes 1. Additional travel and expense charges may apply Face-to-face workshops are limited to approximately 25 participants per workshop	
Professional Development Type	Pricing
State/District Level Professional Development*	
Subject Matter Expert Consulting	\$3,600 per day
Educator, Leadership and Technology Professional Development*	
McREL Using Technology with Classroom Instruction that Works for Mentor Educators Face-to-Face Workshop (2+1 Days)	\$14,000 per 2-day workshop \$6,875 per 1-day workshop
Managed Wi-Fi (ENA Air) Wireless Option:	
Optional Rogue Detection Service	\$2,810.40

See Next Page for Notes related to Pricing Response.

* The lease pricing in this proposal is fixed through 5-31-13 (the “Initial Rate Expiration Date”) and is calculated using a 2-year swaps indexed to .38% (the “Initial Yield”). After the Initial Rate Expiration Date, the lease pricing applicable to this proposal may be adjusted if the Yield as indicated in the Federal Reserve Board's Statistical Release, H.15 - Selected Interest Rates, on the lease commencement date. Full four (4) year Lease at listed Tier 1, 2 and 3 Lease Prices at the current calculated rate would be:

Full 4 Year Lease Price for **Tier 1** participants: \$1,019.45 per-seat per-year

Full 4 Year Lease Price for **Tier 2** participants: \$1,142.93 per-seat per-year

Full 4 Year Lease Price for **Tier 3** participants: \$1,228.39 per-seat per-year

Due to limitations in structure of the **Table 1 – Student/Teacher Learning Technology Solution Costs, HP has not included Cash Transaction pricing however HP is willing to provide upon request.

*** At this time HP is not prepared to offer a volume discount price



Section IV—Economic Impact

In addition to all other information requested within this RFP, each Bidder must dedicate a section of its proposal to describing the Bidder's economic impact upon any state that chooses to participate under this program. The use of economic impact in making contract award decisions is required in accordance with State of Maine Executive Order 2012-004, which states that certain service contracts "...advertised for competitive bid shall include scoring criteria evaluating the responding Bidder's economic impact..." Although the Executive Order is specific to the State of Maine, the Bidder's economic impact information should be applicable to any state that chooses to participate in this program (whether it be Maine, or a different state).

For the purposes of this RFP, the term "economic impact" shall be defined as any activity that is directly performed by or related to the Bidder and has a direct and positive impact on the economy and public revenues within any state that chooses to participate under this program. Examples may include, but are not limited to, employment of the subject state's residents, subcontracting/partnering with the subject state's businesses, payment of state and local taxes (such as corporate, sales, or property taxes), and the payment of state licensing fees for the Bidder's business operations.

To complete the "economic impact" section of the Bidder's proposal, the Bidder shall include no more than one page of typed text, describing the Bidder's current, recent, or projected economic impact, as defined above. The Bidder may include all details and information that it finds to be most relevant for this section.

Response:

The Multi-State Learning Technology Initiative (MLTI), by virtue of introducing 21st century learning through advanced classroom technology, will help participating states' students to achieve higher academic standards and create a strong workforce for participating states. Thus, this initiative has tremendous ramifications for the future economy of participating states in the short and long term.

HP Corporate Economic Impact

As a significant employer around the world and in the United States specifically, HP is a major economic engine producing direct and indirect benefits to the economies where it operates. For instance, HP partners with approximately 1033 subcontractors or authorized service providers (resellers) throughout the 8 states intending to participate in the MLTI. The company also has a direct impact associated with the HP facilities, data centers and employees that are based throughout the participating region. Non-monetary impacts are also prevalent in the "HP Way", an employee culture fostered by Bill Hewlett and Dave Packard that has led to the extraordinary commitment of our employees to volunteerism and community activism. In 2012 HP employees volunteered 1.4 million hours across the globe, including 766,981 volunteer hours in the United States.

HP is keenly aware that public-private partnerships are critical to the creation of an equipped 21st century workforce that will meet industry's future needs and pay our government's future taxes. To assist in the development of future leaders HP is active in promoting STEM educational principles and fostering opportunities for budding entrepreneurs. HP Catalyst and HP Learning Initiative for Entrepreneurs (HP LIFE) are two great examples of philanthropic programs that HP



created to assist in the creation of a strong workforce. With the HP Catalyst Initiative, we are establishing a network of leading educators, education institutions, and key stakeholders in selected countries to explore innovative approaches to STEM education. HP LIFE is a global program for training students, aspiring entrepreneurs, and small business owners to harness the power of IT to establish and grow their business. Through programs such as these HP has invested over \$12 million across the participating states since 2008.

Contract Execution

To roll out and maintain the managed infrastructure for each State, HP agrees to maintain an in-state team including a Project Manager and Professional Development Specialist(s). Education Specialist, deployment and maintenance resources will be required dependent on the tier level selected. Multiple onsite technical and professional development resources will work closely with the State and schools throughout the term of delivery. These are all potential permanent resources within a given state. Likewise, there will be temporary resources involved in deployment and maintenance that will be in-state requiring consumption services such as hotel, restaurants and fuel. Moreover the MLTI initiative will drive the need for local skilled and highly educated employment opportunities to fill these roles outlined above.

A support depot will be directly staffed on a regional rather than State basis to reduce cost. HP currently anticipates locating this repair depot within our existing Massachusetts facility to service Maine, Vermont and New Jersey. This is subject to change.

For Tier 1 and Tier 2 states, the train-the-trainer model mentioned in section 10 of this document will provide an incentive to participation as well as an economic impact to the community. Stipends provided for teacher participation and substitute teaching resources will ensure participation as well as economic support to the community. As previously mentioned a model a state purchasing 70,000 may have 240 trainers who would receive a stipend when they conducted local training.

As indicated above, HP is committed to the creation of a competent and well-equipped workforce. To that end, HP will collaborate with local universities, community colleges, and/or trade schools to provide internship and job-shadowing opportunities with the in-state trainers, project managers, and professional development specialists. Similarly, HP would be open to creating an optional self-maintenance model for interested schools that would provide additional opportunities for students and/or faculty to learn from our specialists and eventually maintain operations internally.



Part VI – Contract Administration and Conditions

Contract Document

1. The successful Bidder(s) will be required to execute a contract in the form of a NASPO Master Price Agreement. A copy of the standard terms and conditions that make up a Master Price Agreement are provided as Appendix D.

As noted above, after a successful Bidder is pre-qualified and signs a Master Price Agreement, then it will be eligible to sign Participating Addenda with interested states. The terms and conditions that make up a Participating Addendum will be made up of that state's standard contract language, but will vary from state to state.

Response:

HP has read and acknowledges. We have included for the purposes of this proposal our position on various contracting issues based on our current understanding of the scope of the RFP. We have included clarifications or modifications to the requirements that form the basis of our proposed solution, and submitted for consideration by the State in the resulting contract between us. In general, while a specific exception may be set forth, HP remains receptive to further good faith negotiations with the State regarding these elements. HP looks forward to discussing these terms with the State and thanks the State for this opportunity.

2. The Sourcing Team estimates having Master Price Agreements in place in January 2013. The Sourcing Team recognizes, however, that the actual contract effective date depends upon completion of the RFP process, date of formal award notification, length of contract negotiation, and preparation and approval by internal state approval bodies. Any appeals to the award decision(s) may further postpone the actual contract effective date, depending upon the outcome. The contract effective date may need to be adjusted, if necessary, to comply with mandated requirements.

Response:

HP has read and acknowledges.

4. In providing services and performing under the contract, the successful Bidder shall act independently and not as an agent of the Sourcing Team or the participating state(s).

Response:

HP has read and acknowledges.

Standard Agreement Provisions

1. Payments and Other Provisions

The payment terms under this program will be determined upon the formation of the Participating Addenda with individual, participating states. An invoice will be considered accurate and acceptable if it contains all of the requirements specified by the participating state, which may include but is not limited to: a reference to the state's contract number, contains correct pricing information relative to the contract, receipt of satisfactory deliverables, and provides any required supporting documents, as applicable, and any other specific requirements listed within this RFP.



Response:

HP has read and acknowledges that payment terms under Participating Addenda may require adjustment by the participating entity to align with State purchase regulations, and agrees to negotiate these elements in good faith based on the proposed payment terms and scope included in this proposal.



Appendix D – NASPO Standard Terms and Conditions

NASPO Standard Terms and Conditions

HP has read and acknowledges Appendix D. We have included modifications within our proposal response reflecting our position on various contract elements based on our current understanding of the scope of the RFP. These include clarifications or modifications to the requirements; and, Additional Provisions relevant to the sale, support and use of technology constituting a purchase contract with financing options. These form the basis of our proposed solution, and are submitted for consideration by the State in the resulting contract between us. In general, while a specific exception may be set forth, HP remains receptive to further good faith negotiations with the State regarding these elements. HP looks forward to discussing these terms with the State and thanks the State for this opportunity.

FINANCING TERMS AND CONDITIONS:

For financing, Hewlett-Packard Company (“HP”) is responding as the Lessor with the express intent to assign Purchasing Entity Lease Agreements and Lease Schedules to Hewlett-Packard Financial Services (“HPFS”). The terms and conditions of these finance options are represented in the enclosed Master Lease Agreements below. Any service level agreements and requirements will be the responsibility of HP, the supplier of the equipment. The precedent and separate terms and conditions applicable to financing are described and reflected exclusively in the State and Local Government Master Lease Purchase Agreement, or the State and Local Government Master Operating Lease included in HP Appendix B and HP Appendix C (“Master Lease Agreements”). Master Lease Purchase Agreements are expressly conditioned on the transaction qualifying for tax-free municipal lease treatment under the Internal Revenue Code.

Participants: The National Association of State Procurement Officials (“NASPO”) is a national association of Chief Procurement Officers that has established a procurement cooperative for state government departments, institutions and political subdivisions (i.e., colleges, school districts, counties, cities, etc.) for the NASPO Member States and territories of the United States.

The Western States Contracting Alliance (WSCA) is fifteen members of NASPO who have focused on creating and managing multi-state cooperative contracts since 1993.

Obligations under contracts that result from this cooperative procurement are limited to those states and other eligible purchasing entities that execute a Participating Addendum.

Financial obligations of Participating States are limited to the orders placed by the departments or other state agencies and institutions having available funds.

Participating States incur no financial obligations on behalf of political subdivisions. Unless otherwise specified in the solicitation, the resulting master price agreement(s) will be permissive.

Definitions:

“**Lead State**” means the State conducting this cooperative solicitation and centrally administering any resulting master price agreement.

“**Master Price Agreement**” means this cooperative solicitation and contract, between the designated Lead State and the awarded contractors.



“Offer” or **“Bid”** or **“Proposal”** refers to the offer submitted in response to a solicitation, whether denominated as an invitation to bid, invitation for bid, request for proposal, or otherwise. **“Bidder”** or **“Offeror”** similarly refers to the person, company, or other entity submitting the bid or proposal that constitutes an offer capable of acceptance, regardless of the solicitation method used.

“Permissive Price Agreement” means that placement of orders through the price agreement is discretionary with Purchasing Entities. They may satisfy their requirements through the master price agreement without using statutory or regulatory procedures (e.g. invitations for bids) to solicit competitive bids or proposals. Purchasing Entities may, however, satisfy requirements without using the master price agreement so long as applicable procurement statutes and rules are followed.

“Participating Addendum” means a bilateral agreement executed by a contractor and a Participating State (or a governmental entity/political subdivision with the consent of its state’s chief procurement officer) that clarifies the operation of the master price agreement for the State concerned, e.g. ordering procedures specific to a State, and may add other state-specific language or other requirements. A Participating Addendum may not alter the scope of the Master Agreement or any other Participating Addendum. Unless otherwise specified, the Participating Addendum shall renew concurrently with the Master Agreement.

Response:

HP respectfully requests the above modification to further clarify the operation of Participating Addendums respective of the Master Agreement; and, to allow the sustainability and equity of the proposed pricing set forth that is reflective of the proposed scope of work available to the Participating Entities.

“Participating State (Entity)” means a state (or entity (not a state), with the prior approval of its state chief procurement official) that has executed a Participating Addendum as required by this Master Price Agreement.

“Purchasing Entity” means a Participating State, or other legal entity, properly authorized by a Participating State to enter into a contract for the purchase of goods and/or services described in the cooperative procurement. Unless otherwise limited in the cooperative procurement or in a Participating Addendum, political subdivisions of Participating States are deemed Purchasing Entities.

Reporting and Admin Fees

A. Reporting and Administrative Fees

1. The Contractor agrees to provide quarterly utilization reports to NASPO or WSCA and the Lead State Contract Administrator by the 15th of the month following the end of the previous quarter. (Ex. Purchases during January are reported by the 15th of April). The report shall be in the format developed by the Lead State and supplied to the Contractor prior to or upon execution of the Contract.



Response:

HP acknowledges and agrees to comply. We agree to work with the Lead State to develop a mutually agreed upon report format that accommodates commercially reasonable reporting elements.

2. The Contractor agrees to provide quarterly Administrative Fee check payable to NASPO for an amount equal to one-half of one percent (0.005) of the net sales for the period. The form to be submitted with the check, as well as the mailing address, will be supplied to the Contractor after the execution of the Contract. Payment shall be made in accordance with the following schedule:

Period End	Payment and Report Due
June 30	July 31
September 30	October 31
December 31	January 31
March 31	April 30

3. The Contractor agrees to include data from all Reseller/Distributor/VAR/Agent sales in the monthly utilization reports described above.
4. The utilization reports shall be submitted to the Lead State Contract Administrator via electronic mail in a Microsoft Excel spreadsheet format, or other methods such as direct access to Internet or other databases.

Response:

HP has read and acknowledges with clarification that “other methods” of reports are subject to the prior mutual agreement of HP and the Lead State.

5. If requested by the Lead State Contract Administrator, the Contractor agrees to provide supporting Purchase Order detail records on mutually agreed media in a mutually agreed format.

Response:

HP has read and acknowledges.

6. The failure to file the utilization reports and fees on a timely basis shall constitute grounds for the removal of the Contractor's primary representative, suspension of this Agreement or termination of this Agreement for cause.
7. The NASPO, WSCA and the Lead State Contract Administrator shall be allowed access to all reports from all Purchasing Entities.

Response:

HP has read and acknowledges.

B. Participating Entity Reports and Fees

1. Participating Entities may require an additional fee be paid directly to the State on purchases made by Purchasing Entities within that State. For all such requests, the fee



level, payment method and schedule for such reports and payments shall be incorporated in to the Participating Addendum that is made a part of this Agreement. The Contractor may adjust pricing accordingly for purchases made by Purchasing Entities within the jurisdiction of that State. All such agreements shall have no affect whatsoever on the NASPO administrative fee or the prices paid by the Purchasing Entities outside the jurisdiction of the State requesting the additional fee.

Response:

HP has read and acknowledges.

2. Purchasing Entities will be encouraged to use the reporting format developed by the Lead State for their reporting needs. However, the Contractor agrees to provide additional reports to Purchasing Entities upon agreement by both parties as to the content and delivery methods of the report. Methods of delivery may include direct access to Internet or other databases.

Response:

HP has read and acknowledges and will agree to provide content and delivery methods as mutually agreed by the Participating State and/or purchasing entities.

3. Each State Purchasing Entity shall be allowed access to reports from all entities within that State.

Response:

HP has read and acknowledges and will provide reporting as requested. Upon request to provide access to report for all entities within a State to the designated State contact listed in the Participating Addendum (PA) or as designated by the State contact listed in the PA.

Quantity Estimates: Estimated quantities are informational and not to be construed as a warranty of accuracy of historical or anticipated volumes or a guarantee to purchase any amount.

Specifications: Any deviation from specifications must be clearly indicated by offeror, otherwise, it will be considered that the proposal is in strict compliance. When BRAND NAMES or manufacturers' numbers are stated in the specifications they are intended to establish a standard only and are not restrictive unless the solicitation says "no substitute." Offers will be considered on other makes, models or brands having comparable quality, style, workmanship and performance characteristics. Alternate proposals offering lower quality or inferior performance will not be considered.

Acceptance or Rejection of Bids and Proposals: The Lead State reserves the right to accept or reject any or all bids or proposals, or parts of bids or proposals, and to waive informalities therein.

Samples: Generally, when required, samples will be specifically requested in the solicitation. Samples, when required, are to be furnished free of charge. Except for those samples destroyed or mutilated during testing, samples will be returned at an offeror's request, transportation collect.

Cash Discount Terms: Offeror may quote a cash discount based upon early payment; however discounts offered for less than 30 days will not be considered in making the award. The date



from which discount time is calculated shall be the date a correct invoice is received or receipt of shipment, whichever is later; except that if testing is performed, the date shall be the date of acceptance of the merchandise.

Response:

HP respectfully advises that Cash Discount Terms do not apply.

Taxes: Offered prices shall be exclusive of state sales and federal excise taxes. Where the state government entities are not exempt from sales taxes on sales within their state, the contractor shall add the sales taxes on the billing invoice as a separate entry.

Response:

HP has read and acknowledges. HP will have no responsibility for sales or use taxes resulting from any transaction contemplated under this Agreement, and will invoice these to the purchasing entity.

Modification or Withdrawal of Bids and Proposals: Bids and proposals may be modified or withdrawn prior to the time set for receipt of bids or proposals. After the time set for receipt of bids or proposals, no proposal may be modified or withdrawn.

Patents, Copyrights, Etc: The Contractor shall release, defend, indemnify, and hold harmless NASPO, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from liability of any kind or nature, including the Contractor's use of any copyrighted or uncopyrighted composition, process, patented or unpatented invention, article or appliance furnished or used in performance of this contract.

Response:

HP conditions its indemnification within the limits of the Intellectual Property Rights Infringement provision specified in the Additional Provisions, below.

Award: Multiple master price agreements may be awarded as a result of this solicitation. Awards in requests for proposals (competitive sealed proposals) shall be made to the responsible offeror(s) whose proposals are determined to be the most advantageous to the Participating States, taking into consideration price and the other evaluation factors set forth in the solicitation. Unless otherwise stated in the solicitation, an award in a solicitation denominated as an invitation to bid will be made to the lowest responsive and responsible Bidder(s) meeting specifications and all bid terms and conditions. The Participating States reserve the right to award items separately or by grouping items, or by total lot.

Non-Collusion: By signing the proposal the offeror certifies that the proposal submitted, has been arrived at independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the solicitation, designed to limit independent bidding or competition.

Termination: Unless otherwise stated in the ~~solicitation~~ Master Agreement, any master price agreement entered into as a result of this solicitation may be terminated by either party upon 60-days notice, in writing, prior to the effective date of the termination. Further, any Participating State may terminate its participation upon 30-days written notice, unless otherwise limited or



stated in the ~~special~~ terms and conditions of the Participating Addendum~~solicitation~~. Any termination under this provision shall not effect the rights and obligations attending orders outstanding at the time of cancellation, including any right of any Purchasing Entity to indemnification by the Contractor, rights of payment for goods/services delivered and accepted, and rights attending any warranty or default in performance in association with any order.

Response:

HP respectfully requests the above modifications to allow the mutually negotiated termination language that is in the resultant Master Agreement and Participating Addendum to withstand.

HP clarifies that the parties will enter into a 4 year agreement for the required equipment and services. The Purchasing Entity may terminate the four year agreement earlier (for nonperformance by the Contractor and) in accordance with the terms set forth in the agreement and with all applicable governing law, provided, however, that nothing in this Agreement shall permit the Purchasing Entity to terminate the lease other than in accordance with the terms of the applicable Master Lease Agreement and effective Lease Schedule.

A. Any of the following shall constitute cause to declare the master price agreement or any order under this master price agreement in default:

Default and Remedies:

- (1) Nonperformance of contractual requirements; or
- (2) A material breach of any term or condition of this master price agreement.

B. A written notice of default, and an opportunity to cure, shall be issued by the party claiming default, whether the Lead State (in the case of breach of the master price agreement), a Participating State (in the case of a breach of the Participating Addendum), the Purchasing Entity (with respect to any order), or the Contractor. Time allowed for cure shall not diminish or eliminate any liability for liquidated or other damages.

C. If the default remains after the opportunity for cure, the non-defaulting party may:

- (1) Exercise any remedy provided by law or equity;
- (2) Terminate the master price agreement or any portion thereof, including any orders issued against the master price agreement;
- ~~(3) Impose liquidated damages, as specified in the solicitation or master price agreement;~~
- (4) In the case of default by the contractor, and to the extent permitted by the law of the Participating State or Purchasing Entity, suspend contractor from receiving future solicitations.

Response:

HP respectfully takes exception to including a reference to C.(3) liquidated damages, on a general basis, in the Master Agreement. HP shall make commercially reasonable efforts to remedy on a timely basis any failure for which the State provides written notification.

Notwithstanding anything to the contrary in this response or resulting Master Agreement, any lease under this agreement may be terminated only in accordance with the terms of the instrument governing that lease provided, however, that nothing in this Agreement shall



permit the State to terminate the lease of any Product under this Agreement other than in accordance with the terms of the applicable Master Lease Agreement and effective Lease Schedule.

Laws and Regulations: Any and all supplies, services and equipment offered and furnished shall comply fully with all applicable Federal and State laws and regulations.

Conflict of Terms: In the event of any conflict between these standard terms and conditions and any special terms and conditions in the solicitation, the special terms and conditions shall govern.

Reports: The contractor shall submit quarterly reports to the Lead State contract administrator, and upon request to any Participating State, showing the quantities and dollar volume of purchases by each Purchasing Entity.

Hold Harmless: The contractor shall release, defend or settle, indemnify and hold harmless NASPO, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from and against any third party damage, cost or liability, including reasonable attorneys fees for any or all injuries to persons, property or claims for money damages arising from the negligent acts or omissions of the contractor, its employees or subcontractors or volunteers related to the performance of Contractor's obligations under this Master Agreement.

Response:

HP respectfully requests the above modifications, and clarifies that its obligation is predicated by NASPO, the Participating States, or the Purchasing Entity (as applicable to the claim), providing prompt written notice of the claim to the Contractor; cooperates with Contractor; and allows Contractor to control the defense and related settlement negotiations.

Order Numbers: Master price agreement numbers and purchase order numbers shall be clearly shown on all acknowledgments, shipping labels, packing slips, invoices, and on all correspondence.

Governing Law and Venue: This procurement shall be governed and the resulting master price agreement construed in accordance with the laws of the Lead State. The construction and effect of any Participating Addendum or order against the master price agreement shall be governed by and construed in accordance with the laws of the Purchasing Entity's State. Venue for any claim, dispute or action concerning the construction and effect of the master price agreement shall be in the Lead State. Venue for any claim, dispute or action concerning an order placed against the master price agreement or the effect of a Participating Addendum shall be in the Purchasing Entity's State.

Delivery: The prices offered shall be the delivered price to any NASPO state agency or purchasing entity, excluding applicable taxes payable by the purchasing entity. All deliveries shall be F.O.B. destination with all transportation and handling charges paid by the contractor. Responsibility and liability for loss or damage shall ~~remain the Contractor until final inspection and acceptance when responsibility shall~~ pass to the Purchasing Entity upon delivery to the "Ship to" location identified on the Order, except as to latent defects, fraud and Contractor's warranty obligations. ~~The minimum shipment amount will be found in the special terms and conditions. Any order for less than the specified amount is to be shipped with the freight prepaid and added~~



~~as a separate item on the invoice. Any portion of an order to be shipped without transportation charges that is back ordered shall be shipped without charge.~~

Response:

HP respectfully requests the above modifications to reflect that risk of loss passes upon delivery to the ship to location, when the product is within the control of the purchasing entity.

~~**Warranty:** The contractor acknowledges that the Uniform Commercial Code applies to this master price agreement. In general, the contractor warrants that: (a) the product will do what the salesperson said it would do, (b) the product will live up to all specific claims that the manufacturer makes in their advertisements, (c) the product will be suitable for the ordinary purposes for which such product is used, (d) the product will be suitable for any special purposes that the Purchasing Entity has relied on the contractor's skill or judgment to consider when it advised the Purchasing Entity about the product, (e) the product has been properly designed and manufactured, and (f) the product is free of significant defects or unusual problems about which the Purchasing Entity has not been warned.~~

~~The contractor agrees to warrant and assume responsibility for each hardware, firmware, and/or software product (hereafter called the product) that it licenses, or sells, to the Purchasing Entity under this master price agreement. When applicable, Contractor warrants that product(s) furnished pursuant to this contract shall, when used in accordance with the product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) transitions, including leap year calculations. Where a contractor proposes or an acquisition requires that specific products must perform as a package or system, this warranty shall apply to the products as a system.~~

~~Where contractor is providing ongoing services, including but not limited to: i) consulting, integration, code or data conversion, ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g., billing, invoicing, claim processing), contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of contractor's business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) various date/time transitions, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting therefrom, including but not limited to the failure or untimely performance of such services.~~

~~This Date/Time Warranty shall survive beyond termination or expiration of this contract through: a) ninety (90) days or b) the contractor's or product manufacturer/developer's stated date/time warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this contract for breach of warranty.~~

Response:

HP respectfully replaces the above Warranty section with HP's standard warranty in the Additional Provisions, below, representative and reflective of the scope and competitive prices offered by HP in this proposal.

Amendments: The terms of this master price agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the Master Price Agreement Administrator of the Lead State and Contractor.



Response:

HP respectfully requests the above modification to clarify that such changes are subject to the mutual agreement of the parties.

Assignment/Subcontract: Contractor shall not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this master price agreement, in whole or in part, without the prior written approval of the Master Price Agreement Administrator of the Lead State which will not be unreasonably withheld. Notwithstanding, HP reserves the right to assign financial Leases to HP Financial Services or financiers, without obtaining prior written approval.

Response:

HP respectfully requests the above addition. It is assumed that the subcontractors identified in our proposal are approved, when awarded. For financing options, HP reserves the right to assign financial lease elements to financiers, without obtaining prior written approval.

Nondiscrimination: The offeror agrees to abide by the provisions of Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibit discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age, and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. The offeror further agrees to furnish information and reports to Participating State(s), upon request, for the purpose of determining compliance with these statutes. Offeror agrees to comply with each individual state's certification requirements, if any, as stated in the special terms and conditions. This master price agreement may be canceled if the offeror fails to comply with the provisions of these laws and regulations. The offeror must include this provision in every subcontract relating to purchases by the States to insure that subcontractors and vendors are bound by this provision.

Severability: If any provision of this master price agreement is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected; and the rights and obligations of the parties shall be construed and enforced as if the master price agreement did not contain the particular provision held to be invalid.

Inspections: Goods furnished under this master price agreement shall be subject to inspection and testing by the Purchasing Entity at times and places determined by the Purchasing Entity. If the Purchasing Entity finds goods furnished to be incomplete or not in compliance with proposal specifications, the Purchasing Entity may reject the goods and require Contractor to either correct them without charge, or deliver them at a reduced price, which is equitable under the circumstances and subject to the mutual agreement of the parties. If Contractor is unable or refuses to correct such goods within a commercially reasonable time ~~deemed reasonable by the Purchasing Entity~~, the Purchasing Entity may cancel the order in whole or in part subject to the mutual agreement of the parties and termination provisions of this Agreement. Nothing in this paragraph shall adversely affect the Purchasing Entity's rights including the rights and remedies under the Uniform Commercial Code.



Response:

HP respectfully requests the above modifications to allow for discussion amongst the parties in such instance; to afford an opportunity for cure; and, allow the warranty and termination provisions in this Agreement to stand. The proposed Products are provided with the manufacturer's published specifications.

Payment: Payment for completion of a master price agreement order is normally made within 30 days following the date the entire order is delivered or the date a correct invoice is received, whichever is later. The Contractor may assess overdue account charges on the outstanding balance in accordance with, and up to the maximum allowed by, the laws of the participating state. Payments may be remitted by mail or electronic funds transfer.

Response:

HP has read and clarifies the requested modification above, and addition: Payments. Except for payments due under a lease or lease schedule, payment is due to Contractor net 30 days from invoice date for each Order placed under a Participating Addendum. Notwithstanding, lease payments are strictly governed by the terms and conditions of the applicable lease agreement and lease schedule. Payment terms for a lease transaction are set forth in the Lease Schedule of the Master Lease Agreement. Participating Agreements or Orders entered into by HP pursuant to this Master Agreement may be subject to satisfactory credit checks of the purchasing entity by HP. HP may suspend or cancel performance of open Orders or services if Customer fails to make payments when due.

Force Majeure: Neither party to this master price agreement shall be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control, except for payment obligations. The Lead State may terminate this master price agreement after determining such delay or default will reasonably prevent successful performance of the master price agreement.

Response:

HP respectfully requests the above modification respective of the lease elements proposed.

Hazardous Chemical Information: The Contractor will provide one set of the appropriate material safety data sheet(s) and container label(s) upon delivery of a hazardous material to the Purchasing Entity agency. ~~All safety data sheets and labels will be in accordance with each participating state's requirements.~~

Response:

HP respectfully requests the above modification on the basis material safety data sheets are provided in accordance with applicable federal requirements.

Firm Price: Unless otherwise stated in the special terms and conditions, for the purpose of award, offers made in accordance with this solicitation must be good and firm for a period of ninety (90) days from the date of receipt of bids or proposals. Prices must remain firm for the full term of the master price agreement.



Response:

HP has read and acknowledges.

Extension of Prices: In the case of error in the extension of prices in the proposal, the unit prices will govern.

Proposal Preparation Costs: NASPO and the lead state are not liable for any costs incurred by the offeror in preparation of the bid or proposal.

Certification Regarding Conflict of Interest: Contractor certifies that it has not offered or given any gift or compensation prohibited by the state laws of any Participating State to any officer or employee of NASPO or Participating States to secure favorable treatment with respect to being awarded this contract.

Independent Contractor: Contractor shall be an independent contractor, and as such shall have no authorization, express or implied to bind the Participating States to any agreements, settlements, liability or understanding whatsoever, and agrees not to perform any acts as agent for NASPO or the states, except as expressly set forth herein.

Political Subdivision Participation: Participation under this master price agreement by political subdivisions (i.e., statutorily eligible colleges, school districts, counties, cities, etc.) of a NASPO state, with the prior approval of the state chief procurement official, shall be voluntarily determined by the political subdivision.

The contractor agrees to supply the political subdivisions based upon the same terms, conditions and prices.

Certification Regarding Debarment: The Contractor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract) by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by NASPO.

Records Administration: The Contractor will maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this master price agreement. These records will be retained by the Contractor for at least four years after the master price agreement terminates, or until all audits initiated within the four years have been completed, whichever is later.

Audit of Records: The Contractor agrees to allow NASPO, State and Federal auditors, and state agency staff access to all the records related to this master price agreement, and the right to copy those records, for audit, inspection and monitoring of services. Such access will be during normal business hours, or by appointment.

Response:

HP has read and acknowledges with the following clarification:

During the term, Customer may appoint a nationally recognized third-party auditor to conduct, at its cost, audits of orders from Customer to HP for products and services, including invoices and Customer payment records associated with such orders. Such audits may be conducted only in accordance with the following:



Audits will occur no more than once each calendar year and the scope of the audit will be limited to Customer orders to HP over the preceding twelve (12) month period;

Customer will provide HP with thirty (30) days prior written notice of each audit;

The parties will work together in good faith to establish an audit process that does not interfere with HP's ability to perform its obligations under this Agreement or any other agreement, or compromise any reasonable security processes or procedures;

Prior to conducting the audit, the auditor will sign a confidentiality agreement that is no less protective to HP than the confidentiality terms set forth in this Agreement;

HP will provide the auditor with information reasonably required to effect the audit, provided however that HP reserves the right to impose limitations or require additional assurances from Customer and its auditor as may be necessary to protect the Confidential Information of HP that may be accessed by Customer's auditor as a part of the audit;

The auditor reports prepared in connection with the audits will be deemed confidential information of HP; and

In no event will HP be required to provide Customer or its auditor with access to HP's internal cost and resource utilization data, or data related to employees or other customer of HP.

Prices as Ceiling:

Master Price Agreement prices represent ceiling prices for the supplies and services priced in the master price agreement.

~~The vendor shall report to the Lead State any price reduction or discount, or other more favorable terms, offered to any Purchasing Entity.~~

~~In instances NOT related to the established standards, committed volumes or volume bulk purchases of a participating state or states, the awarded vendor agrees to negotiate in good faith to reestablish ceiling prices or other more favorable terms and conditions applicable to future orders.~~

Response:

HP respectfully requests the above deletion. HP will honor the ceiling prices, and as may otherwise be mutually agreed between the parties in the respective Order statement of work. We do not have mechanisms in place to accurately document and report what constitutes "more favorable terms" and associated "pricing", and make no commitment or representation herein to that effect.

State Participation/Unique Terms and Conditions:

Apart from the Lead State conducting the solicitation, the States included in

Appendix E, State Profiles, have signified their initial intent to participate in a Master Price Agreement resulting from this Solicitation. ~~Attachment A of the Solicitation includes any significant modifications to these terms and conditions or State-specific provisions required by the laws, regulations, or procurement practices of the State(s).~~ Final participation in the Master Price Agreement by the State(s) shall be signified through the execution of a Participating Addendum.



After the solicitation has closed and an award has been made, additional NASPO members may be added with the consent of the contractor through execution of a Participating Addendum.

Response:

Amendment 2 to the RFP made the above deletion, removing Attachment A.

HP will enter into Participating Addendums with eligible Participating Entities, and agrees to good faith negotiations of changes in the Participating Addendum to the provisions of the Master Agreement for the limited purpose of clarifying the operation of the master price agreement for the State concerned, e.g. ordering procedures specific to a State, or other applicable state purchase requirements. A Participating Addendum may not alter the scope of the Master Agreement or any other Participating Addendum. Unless otherwise specified, the Participating Addendum shall renew concurrently with the Master Agreement.

HP looks forward to discussing these terms with the respective Participants and thanks the State for this opportunity.

Rental and Leases:

Rental:

Individual Participating States and Participating Entities may enter in to rental agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in rental agreements with these individual states/entities must subject copies of all of their rental agreements with their responses to this RFP. The rental agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a rental agreement with a Contractor.

Leases:

Individual Participating States and Participating Entities may enter in to lease agreements for the products covered in the contracts resulting from the RFP, if they have the legal authority to enter into these types of agreements without going through a competitive process. Responders who wish to participate in lease agreements with these individual states/entities must submit copies of all of their lease agreements with their response to this RFP. The lease agreements will not be reviewed or evaluated as part of the RFP evaluation process defined in this RFP. The agreements will simply be made available to any state or entity who wishes to negotiate a lease agreement with a Contractor.

Response – Rentals and Leases:

FINANCING TERMS AND CONDITIONS:

For financing, Hewlett-Packard Company (“HP”) is responding as the Lessor with the express intent to assign Purchasing Entity Lease Agreements and Lease Schedules to Hewlett-Packard Financial Services (“HPFS”). The terms and conditions of these finance options are represented in the enclosed Master Lease Agreements below. Any service level agreements and requirements will be the responsibility of HP, the supplier of the equipment. The precedent



and separate terms and conditions applicable to financing are described and reflected exclusively in the State and Local Government Master Lease Purchase Agreement, or the State and Local Government Master Operating Lease included in HP Appendix B and HP Appendix C (“Master Lease Agreements”). Master Lease Purchase Agreements are expressly conditioned on the transaction qualifying for tax-free municipal lease treatment under the Internal Revenue Code.

~~Comprehensive Financial Options that should be Included:~~

- ~~• Purchase~~
- ~~• Operational Leases with varying buyout ownership options at end of term including no ownership option~~
- ~~• Capital Leases Traditional financing with ownership at end of term (software, buyouts of existing leases)~~
- ~~• Cancelable Rentals Cancel with four month penalty on rental payment~~

- ~~• All leases and rentals must have a non-appropriations clause~~

Response:

Not Applicable. The above section, titled “Comprehensive Financial Options” has been removed by the State of Maine in Amendment 2 of RFP 201210412.

HP has included the representative Lease Agreement (2 options) that apply to the Purchasing Entity to finance its acquisition over a 4 year term. HP requests the ability to discuss with the State the Lease Agreements that are available to assure it is appropriately reflected in the resulting Master Agreement, and to address terms and conditions for the flexibility of out-right purchases versus financed purchases that may be entertained by a Purchasing Entity. The terms and conditions of the Lease Agreement and Lease Schedule (as applicable) shall take precedence over the terms and conditions of the Master Agreement and Participating Addendum.

Non-Appropriation: ~~The terms of the Agreement and any purchase order issued for multiple years under this Agreement is contingent upon sufficient appropriations being made by the Legislature or other appropriate governing entity. Notwithstanding any language to the contrary in this Agreement or in any purchase order or other document, a Purchasing Entity may terminate its obligations under this Agreement, if sufficient fiscal appropriations are not made by the governing entity at a level sufficient to allow for payment of the goods or services due for the fiscal period under multiple year agreements, or if operations of the paying entity are being discontinued. The Purchasing Entity’s decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final and binding. At Contractor’s request, the Purchasing Entity shall promptly provide supplemental documentation evidencing such non-appropriation. Nothing in this Section shall be construed as ability by the Purchasing Entity to terminate an Order for its convenience.~~

A Purchasing Entity shall provide sixty (60) days notice, if possible, of its intent to terminate for reason cited above. Excluding Purchasing Entity obligations that may be otherwise specified in the applicable Lease Agreement or Lease Schedule (as applicable), sSuch termination shall



relieve the Purchasing Entity, its officers and employees from any responsibility or liability for the payment of any further amounts under the relevant Purchase Order/

Response:

HP respectfully requests the above modifications. The terms and conditions of the Lease Agreement and Lease Schedule (as applicable) shall take precedence over the terms and conditions of the Master Agreement and Participating Addendum.

WSCA/NASPO eMarket Center: Awarded responders are required to participate in the WSCA/NASPO eMarket Center and, working through WSCA's contractor (SciQuest), connect with the eMarket Center. The ideal situation would be to use either a hosted (by SciQuest) or Punchout Level 2 catalog configurations, but actual requirements will be determined by the Lead State Contract Administrator, WSCA, WSCA's contractor (SciQuest) and the awarded contractor, after award. Participation does not require an awarded responder to have any special level of technology or technological understanding.

Response:

HP understands and currently has an eMarket Center under the WSCA/NASPO eMarket Center for the Computer contract for the catalog purchase of hardware. HP will work with WSCA/NASPO on an eMarket Center based on the hosting levels that may be available through SciQuest and HP for a seat management services solution as mutually agreed by the parties.

ADDITIONAL PROVISIONS

HP respectfully requests the inclusion of the Additional Provisions relevant to the sale, support and use of technology constituting a purchase contract.

Intellectual Property Rights. No transfer of ownership of any intellectual property will occur under this Agreement. Customer grants HP a non-exclusive, worldwide, royalty-free right and license to any intellectual property that is necessary for HP and its designees to perform the ordered services. If deliverables are created by HP specifically for Customer and identified as such in Supporting Material, HP hereby grants Customer a worldwide, non-exclusive, fully paid, royalty-free license to reproduce and use copies of the deliverables internally.

Intellectual Property Rights Infringement. HP will defend and/or settle any claims against Customer that allege that an HP-branded product or service as supplied under this Agreement infringes the intellectual property rights of a third party. HP will rely on Customer's prompt notification of the claim and cooperation with our defense. HP may modify the product or service so as to be non-infringing and materially equivalent, or we may procure a license. If these options are not available, we will refund to Customer the amount paid for the affected product in the first year or the depreciated value thereafter or, for support services, the balance of any pre-paid amount or, for professional services, the amount paid. HP is not responsible for claims resulting from any unauthorized use of the products or services. This section shall also apply to deliverables identified as such in the relevant Support Material except that HP is not responsible for claims resulting from deliverables content or design provided by Customer.

License Term and Termination. Unless otherwise specified, any license granted is perpetual, provided however that if Customer fails to comply with the terms of this Agreement, and lease



agreement (as applicable), HP may terminate the license upon written notice. Immediately upon termination, or in the case of a limited-term license, upon expiration, Customer will either destroy all copies of the software or return them to HP, except that Customer may retain one copy for archival purposes only.

Confidentiality. Information exchanged under this Agreement will be treated as confidential if identified as such at disclosure or if the circumstances of disclosure would reasonably indicate such treatment. Confidential information may only be used for the purpose of fulfilling obligations or exercising rights under this Agreement, and shared with employees, agents or contractors with a need to know such information to support that purpose. Confidential information will be protected using a reasonable degree of care to prevent unauthorized use or disclosure for 3 years from the date of receipt or (if longer) for such period as the information remains confidential. These obligations do not cover information that: i) was known or becomes known to the receiving party without obligation of confidentiality; ii) is independently developed by the receiving party; or iii) where disclosure is required by law or a governmental agency.

Personal Information. Each party shall comply with their respective obligations under applicable data protection legislation. HP does not intend to have access to personally identifiable information (“**PII**”) of Customer in providing services. To the extent HP has access to Customer PII stored on a system or device of Customer, such access will likely be incidental and Customer will remain the data controller of Customer PII at all times. HP will use any PII to which it has access strictly for purposes of delivering the services ordered.

Global Trade compliance. Services and products/deliverables provided under these terms are for Customer’s internal use and not for further commercialization. If Customer exports, imports or otherwise transfers products and/or deliverables provided under these terms, Customer will be responsible for complying with applicable laws and regulations and for obtaining any required export or import authorizations. HP may suspend its performance under this Agreement to the extent required by laws applicable to either party.

Orders. “**Order**” means the accepted order including any supporting material which the parties identify as incorporated either by attachment or reference (“**Supporting Material**”). Supporting Material may include (as examples) specifications, standard or negotiated service descriptions, data sheets and their supplements, and statements of work (SOWs), published warranties and service level agreements, and may be available to Customer in hard copy or by accessing a designated HP website. Where appropriate, Orders must specify a service delivery date. If Customer extends the service delivery date of an existing Order beyond ninety (90) days, then it will be considered a new Order.

Risk of Loss and Title. Risk of loss or damage and title for hardware products will pass upon delivery to Customer or its designee. Notwithstanding the foregoing, title to leased products remains with Lessor or its permitted assignee, unless expressly state otherwise within the applicable Lease Agreement. Where permitted by law, HP retains a security interest in products sold until full payment is received.



Delivery. HP will use all commercially reasonable efforts to deliver products in a timely manner. HP may elect to deliver software and related product/license information by electronic transmission or via download.

Installation. If HP is providing installation with the product purchase, HP's site guidelines (available upon request) will describe Customer requirements. HP will conduct its standard installation and test procedures to confirm completion.

Support Services. HP's support services will be described in the applicable Supporting Material, which will cover the description of HP's offering, eligibility requirements, service limitations and Customer responsibilities, as well as the Customer systems supported.

Warranties:

Product Performance. All HP-branded hardware products are covered by HP's limited warranty statements that are provided with the products or otherwise made available. Hardware warranties begin on the date of delivery or if applicable, upon completion of HP installation, or (where Customer delays HP installation) at the latest 30 days from the date of delivery. Non-HP branded products receive warranty coverage as provided by the relevant third party supplier.

Software Performance. HP warrants that its branded software products will conform materially to their specifications and be free of malware at the time of delivery. HP warranties for software products will begin on the date of delivery and unless otherwise specified in Supporting Material, will last for ninety (90) days. HP does not warrant that the operation of software products will be uninterrupted or error-free or that software products will operate in hardware and software combinations other than as authorized by HP in Supporting Material.

Product Warranty Claims. When we receive a valid warranty claim for an HP hardware or software product, HP will either repair the relevant defect or replace the product. If HP is unable to complete the repair or replace the product within a reasonable time, Customer will be entitled to a full refund upon the prompt return of the product to HP (if hardware) or upon written confirmation by Customer that the relevant software product has been destroyed or permanently disabled. HP will pay for shipment of repaired or replaced products to Customer and Customer will be responsible for return shipment of the product to HP.

Third party products. To the extent HP offers products of other manufacturers or developers, those products may be accompanied by warranties from their manufacturers or developers that would enable the Purchasing Entity to obtain warranty and maintenance services for those products during the warranty periods. HP will pass along to each Purchasing Entity any product warranties from such manufacturers or developers.

Services Performance. Services are performed using generally recognized commercial practices and standards. Customer agrees to provide prompt notice of any such service concerns and HP will re-perform any service that fails to meet that standard.



Services with Deliverables. If Supporting Material for services define specific deliverables, HP warrants those deliverables will conform materially to their written specifications for 30 days following delivery. If Customer notifies HP of such a non-conformity during the 30 day period HP will promptly remedy the impacted deliverables or refund to Customer the fees paid for those deliverables and Customer will return those deliverables to HP.

Eligibility. HP's service, support and warranty commitments do not cover claims resulting from:

- improper use, site preparation, or site or environmental conditions or other non-compliance with applicable Supporting Material;
- Modifications or improper system maintenance or calibration not performed by HP or authorized by HP;
- failure or functional limitations of any non-HP software or product impacting systems receiving HP support or service;
- malware (e.g. virus, worm, etc.) not introduced by HP; or
- abuse, negligence, accident, fire or water damage, electrical disturbances, transportation by Customer, or other causes beyond HP's control.

Remedies. This Agreement states all remedies for warranty claims. To the extent permitted by law, HP disclaims all other warranties.

Professional Services. HP will deliver any ordered IT consulting, training or other services as described in the applicable Supporting Material.

Professional Services Acceptance. The acceptance process (if any) will be described in the applicable Supporting Material, will apply only to the deliverables specified, and shall not apply to other products or services to be provided by HP.

Dependencies. HP's ability to deliver services will depend on Customer's reasonable and timely cooperation and the accuracy and completeness of any information from Customer needed to deliver the services.

Change Orders. We each agree to appoint a project representative to serve as the principal point of contact in managing the delivery of services and in dealing with issues that may arise. Requests to change the scope of services or deliverables will require a change order signed by both parties.

Limitation of Liability. HP's liability to Customer under this Agreement is limited to the greater of \$1,000,000 or the amount payable by Customer to HP for the relevant Order. Neither Customer nor HP will be liable for lost revenues or profits, downtime costs, loss or damage to data or indirect, special or consequential costs or damages. This provision does not limit either party's liability for: unauthorized use of intellectual property, death or bodily injury caused by their negligence; acts of fraud; willful repudiation of the Agreement; nor any liability which may not be excluded or limited by applicable law.

Disputes. If Customer is dissatisfied with any services purchased under these terms and disagrees with HP's proposed resolution, we both agree to promptly escalate the issue to a Vice



President (or equivalent executive) in our respective organizations for an amicable resolution without prejudice to the right to later seek a legal remedy.

Order of Precedence. Documents will apply in the following descending order of precedence:

1. Financing Agreement (MLPA or MOLA);
2. The Participating Addendum;
3. the sections of this Master Agreement;
4. the Statement of Work;
5. all Supporting Materials.

Survival. Any terms in the Agreement which by their nature extend beyond termination or expiration of the Agreement will remain in effect until fulfilled and will apply to both parties' respective successors and permitted assigns.

FINANCING TERMS AND CONDITIONS:

For financing, Hewlett-Packard Company (“HP”) is responding as the Lessor with the express intent to assign Purchasing Entity Lease Agreements and Lease Schedules to Hewlett-Packard Financial Services (“HPFS”). The terms and conditions of these finance options are represented in the enclosed Master Lease Agreements below. Any service level agreements and requirements will be the responsibility of HP, the supplier of the equipment. The precedent and separate terms and conditions applicable to financing are described and reflected exclusively in the State and Local Government Master Lease Purchase Agreement (HP Appendix B—Master Lease Purchase Agreement), or the State and Local Government Master Operating Lease (HP Appendix C—Master Operating Lease Agreement) included in this proposal (“Master Lease Agreements”). Master Lease Purchase Agreements are expressly conditioned on the transaction qualifying for tax-free municipal lease treatment under the Internal Revenue Code. The Cost Proposal rates are based on a 4 year term, Master Lease financing arrangement.



HP Appendices

HP Appendix A—Certificate of Liability Insurance

HP Appendix B—Master Lease Purchase Agreement

HP Appendix C—Master Operating Lease Agreement

HP Appendix D— Professional Development Partners and Programs



HP Appendix A—Certificate of Liability Insurance

Proposal Reference: Section I, question 2c





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
1/3/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh Risk and Insurance Services, Inc. CA License #0437153 777 S. Figueroa Street Los Angeles, CA 90017	CONTACT NAME: Sylvia A Miller														
	PHONE (A/C, No, Ext): 916-251-7130 FAX (A/C, No):														
	EMAIL ADDRESS: smiller@hp.com														
	<table border="1"> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A: Old Republic Insurance Co.</td> <td>24147</td> </tr> <tr> <td>INSURER B: Tall Tree Insurance Co</td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Old Republic Insurance Co.	24147	INSURER B: Tall Tree Insurance Co		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
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INSURER C:															
INSURER D:															
INSURER E:															
INSURER F:															
INSURED Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304															

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> _____ <input type="checkbox"/> _____ GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-SUBJECT <input type="checkbox"/> LOC			MWZY 59745	9/30/2012	9/30/2013	EACH OCCURRENCE \$ 2,500,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 2,500,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,500,000 GENERAL AGGREGATE \$ Not Applicable PRODUCTS - COMP/OP AGG \$ Not Applicable \$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> LEASED <input type="checkbox"/> _____			MWTB 21679	9/30/2012	9/30/2013	COMBINED SINGLE LIMIT (Ea accident) \$ 2,500,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			470-1XL0076 ***XS 2.5M SIR*** ***OR UNDERLYING POLICY***	9/30/2012	9/30/2013	EACH OCCURRENCE \$ 500,000 AGGREGATE \$ 500,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (MANDATORY IN NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	MWC 11790100 "As respects WC only, all states, except CA, WA, OH and Monopolistic States"	9/30/2012	9/30/2013	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER State of Maine Department of Education 23 State House Station Augusta, ME 04333	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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HP Appendix B—Master Lease Purchase Agreement

Proposal Reference: Appendix D—NASPO Standard Terms and Conditions, section Financing Terms and Conditions



Master Agreement Number _____

Lessee's Organization Number _____

Lessee's Tax Identification Number _____

Lessee's UCC Section 9-307 Location _____

STATE AND LOCAL GOVERNMENT MASTER LEASE PURCHASE AGREEMENT

This State and Local Government Master Lease Purchase Agreement (together with Exhibits A and B attached hereto and hereby made a part hereof, (this "Master Agreement"), dated as of _____, is entered into by and between Hewlett-Packard Company, a Delaware corporation ("Lessor"), and _____, an agency, department or political subdivision of the State of _____ ("Lessee"). Capitalized terms used in this Master Agreement without definition have the meanings ascribed to them in Section 31.

1. PURPOSE OF MASTER AGREEMENT. The purpose of this Master Agreement is to set forth the general terms and conditions upon which Lessor shall lease to Lessee, and Lessee shall lease from Lessor, items of Hardware, Software or both (the "Equipment"). In connection with its execution of this Master Agreement, Lessee shall deliver to Lessor an Officer's Certificate in form and substance acceptable to Lessor, executed by a duly authorized officer of Lessee and certifying as to, among other things, Lessee's authority to enter into this Master Agreement, and the authority of Lessee's officers or representatives specified therein to execute this Master Agreement and an opinion of Lessee's counsel in form and content satisfactory to Lessor.

2. COMMENCEMENT PROCEDURES. Subject to the other terms and conditions contained in this Master Agreement and the applicable Schedule, Lessee shall enter into individual Leases (hereinafter defined) with Lessor as follows:

(a) **Execution of Schedule.** Lessor and Lessee mutually agree to enter into a Lease by executing a Schedule in the form of Exhibit A with such changes as Lessor and Lessee shall have agreed to as conclusively evidenced by their execution thereof. Each such Schedule shall specifically identify (by serial number or other identifying characteristics) the items of Equipment to be leased under such Schedule. Each Schedule, when executed by both Lessee and Lessor, together with this Master Agreement, shall constitute a separate and distinct lease ("Lease"), enforceable according to its terms. In the event of any conflict between the terms of this Master Agreement and such Schedule, the provisions of the Schedule shall govern.

(b) **Acceptance; Term of Leases.** Lessee shall accept the Equipment subject to a Lease in accordance with Section 3. The Term of each Lease shall begin on the Acceptance Date of the Equipment subject to such Lease and shall continue for the period described in the applicable Schedule unless a Nonappropriation shall have occurred.

(c) **Adjustments to Schedule.** Lessee acknowledges that the Total Cost of Equipment and the related Rent payments set forth in any Schedule may be estimates, and if the final invoice from the Seller attached to the related Acceptance Certificate(s) specifies a Total Cost that is less than the estimated Total Cost set forth in the Schedule, Lessee hereby authorizes Lessor to reduce the applicable Total Cost and Rent payment on the Schedule by up to ten percent (10%) to reflect such final invoice amount (the "Final Invoice Amount"). All references in this Master Agreement and any Schedule to Total Cost and Rent shall mean the amounts thereof specified in the applicable Schedule, as adjusted pursuant to this paragraph.

(d) **Payment by Lessor.** Within 30 days after Lessee's delivery to Lessor of a properly completed and executed Acceptance Certificate and all other documentation necessary to establish Lessee's acceptance of such Equipment under the related Lease and Lessor's acceptance of such Acceptance Certificate, Lessor shall pay for the Equipment. Lessor shall not accept the Acceptance Certificate until it has received from Lessee (1) evidence of insurance with respect to the Equipment in compliance with Section 14 hereof, (2) a completed and executed original Form 8038-G or 8038-GC, as applicable, or evidence of filing thereof with the Internal Revenue Service in the manner required by Code Section 149(e), (3) an opinion of Lessee's counsel, if required by Lessor, in form and substance reasonably satisfactory to Lessor and (4) any other documents or items reasonably required by Lessor. Notwithstanding the foregoing, Lessor shall not be obligated to pay for the Equipment if a Lessee Default has occurred or an event has occurred and is continuing that with the passage of time or provision of notice would constitute a Lessee Default. Lessor and Lessee acknowledge that the date the Lessor pays for the Equipment shall be the issue date of the obligation for federal income tax purposes in accordance with the Code and no Rent shall accrue prior to such date.

3. ACCEPTANCE OF EQUIPMENT. (a) **Inspection of Equipment.** Lessee agrees to inspect all Equipment as soon as reasonably practicable after the delivery thereof to Lessee.

(b) **Acceptance Certificate.** Upon the satisfactory inspection of the Equipment by Lessee, or if acceptance requirements for such Equipment are specified in the applicable Purchase Documents, as soon as such requirements are met, Lessee shall unconditionally and irrevocably accept the Equipment by executing and delivering to Lessor a properly completed Acceptance Certificate in substantially the form of Exhibit B.

4. RENT; LATE CHARGES. As rent ("Rent") for the Equipment under any Lease, Lessee agrees to pay the amounts specified in the applicable Schedule on the due dates specified in the applicable Schedule. Lessee agrees to pay Lessor interest on any Rent payment or other amount due hereunder that is not paid within 10 days of its due date, at the rate of 1-1/2% per month (or such lesser rate as is the maximum rate allowable under applicable law). Lessee will make provision for such payments in budgets submitted to its governing body for the purpose of obtaining funding for the payments.

5. TRANSFER OF EQUIPMENT ON EXPIRATION OF LEASE TERM. If Lessee has paid all Rent and all other amounts due under the Lease and has satisfied all other terms and conditions of the Lease, the Lease shall terminate and, except as provided in Section 28, Lessee shall be relieved of all of its obligations in favor of Lessor with respect to the Equipment and Lessor shall transfer all of its interest in such Equipment to Lessee "AS IS, WHERE IS," without any warranty, express or implied, from Lessor, other than the absence of any liens or claims by or through Lessor.

6. LEASES NON-CANCELABLE; NET LEASES; WAIVER OF DEFENSES TO PAYMENT. IT IS SPECIFICALLY UNDERSTOOD AND AGREED THAT EACH LEASE HEREUNDER SHALL BE NON-CANCELABLE (EXCEPT AS SET FORTH IN SECTION 7 HEREOF), AND THAT EACH LEASE HEREUNDER IS A NET LEASE SO THAT AMONG OTHER THINGS LESSEE SHALL PAY IN ADDITION TO THE RENT, TAXES, INSURANCE AND MAINTENANCE CHARGES RELATED TO THE EQUIPMENT. LESSEE AGREES THAT IT HAS AN ABSOLUTE AND UNCONDITIONAL OBLIGATION TO PAY ALL RENT AND OTHER AMOUNTS WHEN DUE. LESSEE HEREBY WAIVES ANY RECOUPMENT, CROSS-CLAIM, COUNTERCLAIM OR ANY OTHER DEFENSE AT LAW OR IN EQUITY TO ANY RENT OR OTHER AMOUNT DUE WITH RESPECT TO ANY LEASE, WHETHER ANY SUCH DEFENSE ARISES OUT OF THIS MASTER AGREEMENT, ANY SCHEDULE, ANY CLAIM BY LESSEE AGAINST LESSOR, LESSOR'S ASSIGNEES OR SUPPLIER OR OTHERWISE. IF THE EQUIPMENT IS NOT PROPERLY INSTALLED, DOES NOT OPERATE OR INTEGRATE AS REPRESENTED OR WARRANTED BY SUPPLIER OR IS UNSATISFACTORY FOR ANY REASON WHATSOEVER, LESSEE

WILL MAKE ANY CLAIM ON ACCOUNT OF THOSE ISSUES SOLELY AGAINST SUPPLIER AND WILL NEVERTHELESS PAY ALL SUMS DUE WITH RESPECT TO EACH LEASE.

7. NONAPPROPRIATION. Notwithstanding anything contained in this Master Agreement to the contrary, in the event that sufficient funds are not appropriated and budgeted by Lessee's governing body or are not otherwise available from other legally available sources in any fiscal period for the payment of Rent and other amounts due under any Lease, the Lease shall terminate on the last day of the fiscal period for which appropriations were received or other amounts are available to pay amounts due under the Lease without penalty or expense to Lessee of any kind whatsoever, except as to the portions of Rent payments or other amounts herein agreed upon for which funds shall have been appropriated or are otherwise available. Lessee will immediately notify the Lessor or its assignee of such occurrence. In the event of such termination, Lessee shall immediately cease all use of the Equipment, and shall, at its sole expense and risk, immediately de-install, disassemble, pack, crate, insure, and return the Equipment subject to such Lease to Lessor (all in accordance with Section 10 of this Master Agreement). Such Equipment shall be in the same condition as when received by Lessee (reasonable wear, tear and depreciation resulting from normal and proper use excepted), shall be in good operating order and maintenance as required by this Lease, shall be free and clear of any liens (except Lessor's lien) and shall comply with all applicable laws and regulations. Lessee agrees to execute and deliver to Lessor all documents reasonably requested by Lessor or evidence the transfer of legal and beneficial title to such Equipment to Lessor and to evidence the termination of Lessee's interest in such Equipment. Lessor will have all legal and equitable rights and remedies to take possession of the Equipment. At Lessor's request, Lessee shall promptly provide supplemental documentation as to such Non-Appropriation satisfactory to Lessor. Lessee's exercise of its rights pursuant to this Section 7 shall not affect the survival of any indemnity and other provisions (other than the obligation to lease the Equipment and pay amounts due under the Lease) which survive the termination of the Lease.

8. ASSIGNMENT OF PURCHASE DOCUMENTS. Lessee assigns to Lessor all of Lessee's right, title and interest in and to (a) the Equipment described in each Schedule, and (b) the Purchase Documents relating to such Equipment. Such assignment of the Purchase Documents is an assignment of rights only; nothing in this Master Agreement shall be deemed to have relieved Lessee of any obligation or liability under any of the Purchase Documents, except that, as between Lessee and Lessor, Lessor shall pay for the Equipment in accordance with Section 2(d) hereof. Lessee represents and warrants that it has reviewed and approved the Purchase Documents. In addition, if Lessor shall so request, Lessee shall deliver to Lessor a document acceptable to Lessor whereby Seller acknowledges and provides any required consent to such assignment. For the avoidance of doubt, Lessee covenants and agrees that it shall at all times during the Term of each Lease comply in all respects with the terms of any License Agreement relating to any Equipment leased thereunder. **IT IS ALSO SPECIFICALLY UNDERSTOOD AND AGREED THAT NEITHER SUPPLIER NOR ANY SALESPERSON OF SUPPLIER IS AN AGENT OF LESSOR, NOR ARE THEY AUTHORIZED TO WAIVE OR ALTER ANY TERMS OF THIS MASTER AGREEMENT OR ANY SCHEDULE.**

9. ASSIGNMENT OF SUPPLIER WARRANTIES. To the extent permitted, Lessor hereby assigns to Lessee all Equipment warranties provided by any Supplier in the applicable Purchase Documents. Lessee shall have the right to take any action it deems appropriate to enforce such warranties provided such enforcement is pursued in Lessee's name and at its expense. In the event Lessee is precluded from enforcing any such warranty in its name and to the extent Lessor retains title to the Equipment, Lessor shall, upon Lessee's request, take reasonable steps to enforce such warranty. In such circumstances, Lessee shall, promptly upon demand, reimburse Lessor for all expenses incurred by Lessor in enforcing the Supplier warranty. Any recovery resulting from any such enforcement efforts shall be divided between Lessor and Lessee as their interests may appear.

10. EQUIPMENT RETURN REQUIREMENTS. At any time Lessee is required to return Equipment to Lessor under the terms of this Master Agreement or any Schedule, Lessee shall (a) wipe clean or permanently delete all data contained on the Equipment, including without limitation, any data contained on internal or external drives, discs, or accompanying media, and (b) pack the Equipment to be returned to Lessor in accordance with the manufacturer's guidelines and deliver such Equipment to Lessor at any destination within the continental United States designated by Lessor. In the case of any item of Software or License Agreement subject to a Schedule, at the time of the occurrence of a Non-Appropriation or a Lessee Default, Lessee shall also be automatically deemed to have reassigned any License Agreement, and shall immediately de-install and deliver to Lessor all Software, together with the original certificate of authenticity issued by the licensor of such Software, if any. All dismantling, packaging, transportation, in-transit insurance and shipping charges shall be borne by Lessee. All Equipment shall be returned to Lessor in the same condition and working order as when delivered to Lessee, reasonable wear and tear excepted, and except in the case of PC Equipment and Software, shall qualify for maintenance service by the Supplier at its then standard rates for Equipment of that age, if available. Lessee shall be responsible for, and shall reimburse Lessor promptly on demand for, the cost of returning the Equipment to good working condition or, in the case of Equipment other than PC Equipment and Software, qualifying the Equipment for the Supplier's maintenance service, if available.

11. EQUIPMENT USE, MAINTENANCE AND ADDITIONS. Lessee is solely responsible for the selection, installation, operation and maintenance of the Equipment and all costs related thereto, including shipping charges. Lessee shall at all times operate and maintain the Equipment in good working order, repair, condition and appearance, and in accordance with the manufacturer's specifications and recommendations. On reasonable prior notice to Lessee, Lessor and Lessor's agents shall have the right, during Lessee's normal business hours and subject to Lessee's reasonable, standard security procedures, to enter the premises where the Equipment is located for the purpose of inspecting the Equipment and observing its use. Except in the case of PC Equipment and Software, Lessee shall, at its expense, enter into and maintain and enforce at all times during the Term of each Lease a maintenance agreement to service and maintain the related Equipment, upon terms and with a provider reasonably acceptable to Lessor. Lessee shall make no alterations or additions to the Equipment, except those that (a) will not void any warranty made by the Supplier of the Equipment, result in the creation of any security interest, lien or encumbrance on the Equipment or impair the value or use of the Equipment either at the time made or at the end of the Term of the applicable Lease, and are readily removable without damage to the Equipment ("Optional Additions"), or (b) are required by any applicable law, regulation or order. All additions to the Equipment or repairs made to the Equipment, except Optional Additions, become a part of the Equipment and Lessor's property at the time made; Optional Additions which have not been removed in the event of the return of the Equipment shall become Lessor's property upon such return.

12. EQUIPMENT OWNERSHIP; LIENS; LOCATION. Upon acceptance of the Equipment by Lessee hereunder, title to the Equipment will vest in Lessee; provided, however, that (i) in the event of termination of this Lease by Lessee pursuant to Section 7 hereof, or (ii) upon the occurrence of a Lessee Default as defined in Section 22 hereof, and as long as such Lessee Default is continuing, title to the Equipment (including Substitute Equipment) will immediately vest in Lessor or its assignee. Lessee covenants with respect to each Lease that: (i) it will not pledge or encumber the Equipment or Lessor's interest in the Equipment in any manner whatsoever nor create or permit to exist any levy, lien or encumbrance thereof or thereon except those created by or through Lessor; (ii) the Equipment shall remain personal property whether or not affixed to realty and shall not become a fixture or be made to become a part of any real property on which it is placed without Lessor's prior written consent; and (iii) Lessee shall maintain the Equipment so that it does not become essential to and may be removed from any building in which it is placed without any damage to the building or the Equipment. Provided Lessee remains in possession and control of the Equipment, Lessee may relocate any Equipment from the Equipment Location specified in the applicable Schedule to another of its locations within the State of the Equipment Location upon prior written notice to Lessor specifying the new Equipment Location or to another of its locations within the United States after receiving the written consent of Lessor to such relocation. Lessee shall not locate or relocate any Equipment such that any third party comes into possession or control thereof without Lessor's prior written consent; provided, however, that Lessor shall not unreasonably withhold its consent to the location or relocation of Equipment to a third party co-location or hosting facility if such third party shall have executed and delivered to Lessor a waiver agreement in form and substance acceptable to Lessor pursuant to which, among other things, such third party shall have waived any rights to the Equipment and agreed to surrender the Equipment to Lessor in the event of a Lessee Default under this Master Agreement. Notwithstanding the foregoing, Lessor agrees that computer equipment usable outside of a fixed office environment, such as laptops, notebooks or similar PC

Equipment (collectively, "Mobile PC Equipment") may be relocated on a non-permanent basis from the Equipment Location originally specified in the applicable Schedule without Lessor's prior written consent, provided that (i) such relocation is made by Lessee's primary employee in the custody and control of such Mobile PC Equipment; (ii) the primary employee remains in possession and control of the Mobile PC Equipment, and (iii) the primary employee's principal office is the Equipment Location. For purposes of this Master Agreement and any applicable Schedule, the term Equipment shall be deemed to include all Mobile PC Equipment.

13. SECURITY INTEREST; MAXIMUM RATE. In order to secure all of its obligations hereunder, Lessee hereby, to the extent permitted by law and to secure payment and performance of Lessee's obligations under this Master Agreement and all Leases, grants Lessor a purchase money security interest in the related Equipment and in all attachments, accessories, additions, substitutions, products, replacements, rentals and proceeds (including, without limitation, insurance proceeds) thereto as well as a security interest in any other Equipment financed pursuant to this Master Agreement or any other agreement between Lessor and Lessee (collectively, the "Collateral"). In any such event, notwithstanding any provisions contained in this Master Agreement or in any Schedule, neither Lessor nor any Assignee shall be entitled to receive, collect or apply as interest any amount in excess of the maximum rate or amount permitted by applicable law. In the event Lessor or any Assignee ever receives, collects or applies as interest any amount in excess of the maximum amount permitted by applicable law, such excess amount shall be applied to the unpaid principal balance and any remaining excess shall be refunded to Lessee. In determining whether the interest paid or payable under any specific contingency exceeds the maximum rate or amount permitted by applicable law, Lessor and Lessee shall, to the maximum extent permitted under applicable law, characterize any non-principal payment as an expense or fee rather than as interest, exclude voluntary prepayments and the effect thereof, and spread the total amount of interest over the entire term of this Master Agreement and all Leases. Lessee agrees that Lessor may file this Lease as a financing statement evidencing such security interest or any other financing statement deemed necessary by Lessor and agrees to execute and deliver all certificates of title and other instruments necessary or appropriate to evidence such security interest.

14. RISK OF LOSS AND INSURANCE. Lessee assumes any and all risk of loss or damage to the Equipment from the time such Equipment is delivered to Lessee until such Equipment is returned to and is received by Lessor in accordance with the terms and conditions of this Master Agreement. Lessee agrees to keep the Equipment insured at Lessee's expense against all risks of loss from any cause whatsoever, including without limitation, loss by fire (including extended coverage), theft and damage. Lessee agrees that such insurance shall name Lessor as a loss payee and cover not less than the Stipulated Loss Value of the Equipment. Lessee also agrees that it shall carry commercial general liability insurance in an amount not less than \$2,000,000 total liability per occurrence and cause Lessor and its affiliates and its and their successors and assigns, to be named additional insureds under such insurance. Each policy shall provide that the insurance cannot be canceled without at least 30 days' prior written notice to Lessor, and no policy shall contain a deductible in excess of \$25,000. Upon Lessor's prior written consent, in lieu of maintaining insurance obtained by third party insurance carriers, Lessee may self insure against such risks, provided that Lessor's interests are protected to the same extent as if the insurance had been obtained by third party insurance carriers and provided further that such self insurance program is consistent with prudent business practices with respect with such insurance risk. Lessee shall provide to Lessor (a) on or prior to the Acceptance Date for each Lease, and from time to time thereafter, certificates of insurance evidencing such insurance coverage throughout the Term of each Lease, and (b) upon Lessor's request, copies of the insurance policies. If Lessee fails to provide Lessor with such evidence, then Lessor will have the right, but not the obligation, to purchase such insurance protecting Lessor at Lessee's expense. Lessee's expense shall include the full premium paid for such insurance and any customary charges, costs or fees of Lessor. Lessee agrees to pay such amounts in substantially equal installments allocated to each Rent payment (plus interest on such amounts at the rate of 1-1/2% per month or such lesser rate as is the maximum rate allowable under applicable law).

15. CASUALTY LOSS. Lessee shall notify Lessor of any Casualty Loss or repairable damage to any Equipment as soon as reasonably practicable after the date of any such occurrence but in no event later than 30 days after such occurrence. In the event any Casualty Loss shall occur, on the next Rent payment date Lessee shall (a) at Lessee's option provided no Lessee Default has occurred nor an event that with the passage of time or provision of notice would constitute a Lessee Default has occurred and is continuing or (b) at Lessor's option if a Lessee Default has occurred or an event that with the passage of time or provision of notice would constitute a Lessee Default has occurred and is continuing, (1) subject to Section 7 hereof, pay Lessor the Stipulated Loss Value of the Equipment suffering the Casualty Loss, or (2) substitute and replace each item of Equipment suffering the Casualty Loss with an item of Substitute Equipment. If Lessee shall pay the Stipulated Loss Value of the Equipment suffering a Casualty Loss, upon Lessor's receipt in full of such payment the applicable Lease shall terminate as it relates to such Equipment and, except as provided in Section 28, Lessee shall be relieved of all obligations under the applicable Lease as it relates to such Equipment. If Lessee shall replace Equipment suffering a Casualty Loss with items of Substitute Equipment the applicable Lease shall continue in full force and effect without any abatement of Rent with such Substitute Equipment thereafter being deemed to be Equipment leased thereunder. Upon Lessor's receipt of such payment of Stipulated Loss Value in full or replacement of the Equipment suffering the Casualty Loss with Substitute Equipment, Lessor shall transfer to Lessee all of Lessor's interest in the Equipment suffering the Casualty Loss "AS IS, WHERE IS," without any warranty, express or implied, from Lessor, other than the absence of any liens or claims by or through Lessor. In the event of any repairable damage to any Equipment, the Lease shall continue with respect to such Equipment without any abatement of Rent and Lessee shall, at its expense, from insurance proceeds or other funds legally available, promptly cause such Equipment to be repaired to the condition it is required to be maintained pursuant to Section 11.

16. TAXES. Lessor shall report and pay all Taxes now or hereafter imposed or assessed by any governmental body, agency or taxing authority upon the purchase, ownership, delivery, installation, leasing, rental, use or sale of the Equipment, the Rent or other charges payable hereunder, or otherwise upon or in connection with any Lease, whether assessed on Lessor or Lessee, other than any such Taxes required by law to be reported and paid by Lessee. Lessee shall promptly reimburse Lessor for all such Taxes paid by Lessor, together with any penalties or interest in connection therewith attributable to Lessee's acts or failure to act, excluding (a) Taxes on or measured by the overall gross or net income or items of tax preference of Lessor, (b) as to any Lease the related Equipment, Taxes attributable to the period after the return of such Equipment to Lessor, and (c) Taxes imposed as a result of a sale or other transfer by Lessor of any portions of its interest in any Lease or in any Equipment except for a sale or other transfer to Lessee or a sale or other transfer occurring after and during the continuance of any Lessee Default.

17. GENERAL INDEMNITY. Lessee, to the extent permitted by law, shall indemnify and hold harmless Lessor and assignees, from and against any and all Claims arising directly or indirectly out of or in connection with any matter involving this Master Agreement, the Equipment or any Lease, including but not limited to the selection, manufacture, purchase, acceptance, rejection, ownership, delivery, lease, possession, maintenance, use (including any patent, trademark or copyright infringement), condition, return or operation of any Equipment or the enforcement of Lessor's rights under any Lease. Notwithstanding the foregoing, Lessee shall have no obligation to indemnify or defend against any Claim arising solely as a result of Lessor's gross negligence or willful misconduct.

18. TAX REPRESENTATIONS AND COVENANTS AND TAX PAYMENTS. (a) Lessee represents, covenants and warrants that: (i) Lessee is a political subdivision or agency or department of the State in which it is located; (ii) a portion of the Rent is interest based on the total Equipment cost as shown on a Schedule with such interest portion of the Rent shall be excluded from Lessor's gross income pursuant to Section 103 of the Code; (iii) Lessee will comply with the information reporting requirements of Section 149(e) of the Code, and such compliance shall include but not be limited to the execution of information statements requested by Lessor; (iv) Lessee will not do or cause to be done any act which will cause, or by omission of any act allow, the Lease to be an arbitrage bond within the meaning of Section 148(a) of the Code; (v) Lessee will not do or cause to be done any act which will cause, or by omission of any act allow, this Lease to be a private activity bond within the meaning of Section 141(a) of the Code; (vi) Lessee will not do or cause to be done any act which will cause, or by omission of any act allow, the interest portion of the Rent payments to be or become includable in gross income for federal income taxation purposes under the Code; (vii) Lessee will be the only entity to own, use and operate the Equipment during the Lease Term; (viii) Lessee has never failed to appropriate funds for payment of any amount due pursuant to a lease

purchase agreement, a conditional sales agreement or any similar type of obligation; and (ix) Lessee is not and has never been in default under any bond, note, lease purchase agreement or other type of financial obligation to which it has been a party.

(b) This Master Agreement has been entered into on the basis that Lessor or any Assignee of Lessor shall claim that the interest paid hereunder is exempt from federal income tax under Section 103(a) of the Code. Upon a breach by Lessee of any of its representations, warranties and covenants in Section 18(a) above and as a result thereof, the United States Government disallows, eliminates, reduces, recaptures, or disqualifies, in whole or in part, any benefits of such exemption. Lessee shall then pay to Lessor, at Lessor's election, either: (i) supplemental payment(s) to Lessor during the remaining period of the Term(s) in an amount necessary to permit Lessor to receive (on an after tax basis over the full term of the Master Agreement) the same rate of return that Lessor would have realized had there not been a loss or disallowance of such benefits, together with the amount of any interest or penalty which may be assessed by the governmental authority with respect to such loss or disallowance; or (ii) a lump sum payable upon demand to Lessor which shall be equal to the amount necessary to permit Lessor to receive (on an after tax basis over the full term of the Master Agreement) the same rate of return that Lessor would have realized had there not been a loss or disallowance of such benefits together with the amount of any interest or penalty which may be assessed by the governmental authority with respect to such loss or disallowance.

19. COVENANT OF QUIET ENJOYMENT. So long as no Lessee Default exists, and no event shall have occurred and be continuing which, with the giving of notice or the passage of time or both, would constitute a Lessee Default, neither Lessor nor any party acting or claiming through Lessor, by assignment or otherwise, will disturb Lessee's quiet enjoyment of the Equipment during the Term of the related Lease.

20. DISCLAIMERS AND LESSEE WAIVERS. LESSEE LEASES THE EQUIPMENT FROM LESSOR "AS IS, WHERE IS." IT IS SPECIFICALLY UNDERSTOOD AND AGREED THAT (A) EXCEPT AS EXPRESSLY SET FORTH IN SECTION 19, LESSOR MAKES ABSOLUTELY NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY REPRESENTATION OR WARRANTY WITH RESPECT TO THE DESIGN, COMPLIANCE WITH SPECIFICATIONS, QUALITY, OPERATION, OR CONDITION OF ANY EQUIPMENT (OR ANY PART THEREOF), THE MERCHANTABILITY OR FITNESS OF EQUIPMENT FOR A PARTICULAR PURPOSE, OR ISSUES REGARDING PATENT INFRINGEMENT, TITLE AND THE LIKE; (B) LESSOR SHALL NOT BE DEEMED TO HAVE MADE, BE BOUND BY OR LIABLE FOR, ANY REPRESENTATION, WARRANTY OR PROMISE MADE BY THE SUPPLIER OF ANY EQUIPMENT (EVEN IF LESSOR IS AFFILIATED WITH SUCH SUPPLIER); (C) LESSOR SHALL NOT BE LIABLE FOR ANY FAILURE OF ANY EQUIPMENT OR ANY DELAY IN THE DELIVERY OR INSTALLATION THEREOF; (D) LESSEE HAS SELECTED ALL EQUIPMENT WITHOUT LESSOR'S ASSISTANCE; AND (E) LESSOR IS NOT A MANUFACTURER OF ANY EQUIPMENT. IT IS FURTHER AGREED THAT LESSOR SHALL HAVE NO LIABILITY TO LESSEE, OR ANY THIRD PARTIES FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS MASTER AGREEMENT OR ANY SCHEDULE OR CONCERNING ANY EQUIPMENT, OR FOR ANY DAMAGES BASED ON STRICT OR ABSOLUTE TORT LIABILITY OR LESSOR'S NEGLIGENCE; PROVIDED, HOWEVER, THAT NOTHING IN THIS MASTER AGREEMENT SHALL DEPRIVE LESSEE OF ANY RIGHTS IT MAY HAVE AGAINST ANY PERSON OTHER THAN LESSOR. LESSOR AND LESSEE AGREE THAT THE LEASES SHALL BE GOVERNED BY THE EXPRESS PROVISIONS OF THIS MASTER AGREEMENT AND THE OTHER FUNDAMENTAL AGREEMENTS AND NOT BY THE CONFLICTING PROVISIONS OF ANY OTHERWISE APPLICABLE LAW. ACCORDINGLY, TO THE EXTENT PERMITTED BY APPLICABLE LAW, LESSEE WAIVES ANY RIGHTS AND REMEDIES CONFERRED UPON A LESSEE BY STATUTE OR OTHERWISE, IN EITHER CASE THAT ARE INCONSISTENT WITH OR THAT WOULD LIMIT OR MODIFY LESSOR'S RIGHTS SET FORTH IN THIS MASTER AGREEMENT.

21. LESSEE WARRANTIES. Lessee represents, warrants and covenants to Lessor with respect to each Lease that: (a) Lessee has the power and authority to enter into each of the Fundamental Agreements; (b) all Fundamental Agreements are legal, valid and binding obligations of Lessee, enforceable against Lessee in accordance with their terms and do not violate or create a default under any instrument or agreement binding on Lessee; (c) there are no pending or threatened actions or proceedings before any court or administrative agency that could have a material adverse effect on Lessee or any Fundamental Agreement, unless such actions have been disclosed to Lessor and consented to in writing by Lessor; (d) Lessee shall comply in all material respects with all laws and regulations the violation of which could have a material adverse effect upon the Equipment or Lessee's performance of its obligations under any Fundamental Agreement; (e) each Fundamental Agreement shall be effective against all creditors of Lessee under applicable law, including fraudulent conveyance and bulk transfer laws, and shall raise no presumption of fraud; (f) all financial statements, certificates or summaries relating to Lessee's financial condition, fiscal budget or the assessment and collection of taxes and other related information furnished by Lessee shall be prepared in accordance with generally accepted accounting principles in the United States in effect at that time and shall fairly present Lessee's financial position as of the dates given on such statements; (g) since the date of the most recent annual financial statement, there has been no material adverse change in the financial condition of, or the level of assessment or collection of taxes by, the Lessee; (h) the Equipment, subject to any Lease, is essential to the immediate performance of a governmental or proprietary function by Lessee within the scope of its authority and will be used during the Term of such Lease only by Lessee and only to perform such function; (i) Lessee intends to use the Equipment for the entire Term of such Lease and all Equipment will be used for business purposes only and not for personal, family or household purposes; (j) Lessee has complied fully with all applicable law governing open meetings, public bidding and appropriations required in connection with this Lease and the acquisition of the Equipment; (k) there has been no material change in the budget for Lessee's current Fiscal Period since its adoption; (l) Lessee's obligations to pay Rent and any other amounts due under this Lease constitute a current expense and not a debt of Lessee under applicable state law; (m) no provision of this Lease constitutes a pledge of the tax or general revenues of Lessee; (n) Lessee does not export, re-export, or transfer any Equipment, Software, system software or source code or any direct product thereof to a prohibited destination, or to nationals of proscribed countries wherever located, without prior authorization from the United States government and other applicable governments; (o) Lessee does not use any Equipment, Software or system software or technology, technical data, or technical assistance related thereto or the products thereof in the design, development, or production of nuclear, missile, chemical, or biological weapons or transfer the same to a prohibited destination, or to nationals of proscribed countries wherever located, without prior authorization from the United States and other applicable governments; and (p) Lessee is not an entity designated by the United States government or any other applicable government with which transacting business without the prior consent of such government is prohibited.

22. DEFAULT. Any of the following shall constitute a default by Lessee (a "Lessee Default") under this Master Agreement and all Leases: (a) Lessee fails to pay any Rent payment or any other amount payable to Lessor under this Master Agreement or any Schedule within 10 days after its due date; or (b) Lessee defaults on or breaches any of the other terms and conditions of any Material Agreement, and fails to cure such breach within 10 days after written notice thereof from Lessor; or (c) any representation or warranty made by Lessee in any Material Agreement proves to be incorrect in any material respect when made or reaffirmed; or (d) any change occurs in relation to Lessee's financial condition that, in Lessor's opinion, would have a material adverse effect on Lessee's ability to perform its obligations under this Master Agreement or under any Schedule or (e) Lessee becomes insolvent or fails generally to pay its debts as they become due; or (f) a proceeding under any bankruptcy, reorganization, arrangement of debt, insolvency or receivership law is filed by or against Lessee (and, if such is proceeding is involuntary, it is not dismissed within 60 days after the thereof) or Lessee takes any action to authorize any of the foregoing matters; (g) any Equipment is levied against, seized or attached; or (h) any letter of credit or guaranty issued in support of a Lease is revoked, breached, canceled or terminated (unless consented to in advance by Lessor).

23. REMEDIES. If a Lessee Default occurs, Lessor may, in its sole discretion, exercise one or more of the following remedies: (a) declare all amounts due and to become due during Lessee's current fiscal year under any or all Leases to be immediately due and payable; or (b) terminate this Master Agreement or any Lease(s); or (c) take possession of, or render unusable, any Equipment wherever the Equipment may be located, without demand or notice and without any court order or other

process of law in accordance with Lessee's reasonable security procedures, and no such action shall constitute a termination of any Lease; or (d) require Lessee to deliver the Equipment to a location specified by Lessor; or (e) declare the Stipulated Loss Value for any or all Equipment to be due and payable as liquidated damages for loss of a bargain and not as a penalty and in lieu of any further Rent payments under the applicable Lease or Leases; or (f) proceed by court action to enforce performance by Lessee of any Lease and/or to recover all damages and expenses incurred by Lessor by reason of any Lessee Default; or (g) terminate any other agreement that Lessor may have with Lessee; or (h) exercise any other right or remedy available to Lessor at law or in equity. Also, Lessee shall pay Lessor (i) all costs and expenses that Lessor may incur to maintain, safeguard or preserve the Equipment, and other expenses incurred by Lessor in enforcing any of the terms, conditions or provisions of this Master Agreement (including reasonable legal fees and collection agency costs) and (ii) all costs incurred by Lessor in exercising any of its remedies hereunder (including reasonable legal fees). Upon repossession or surrender of any Equipment, Lessor will lease, sell or otherwise dispose of the Equipment in a commercially reasonable manner, with or without notice and at public or private sale, and apply the net proceeds thereof to the amounts owed to Lessor under this Master Agreement; provided, however, that Lessee will remain liable to Lessor for any deficiency that remains after any sale or lease of such Equipment. Any proceeds of any sale or lease of such Equipment in excess of the amounts owed to Lessor under this Master Agreement will be retained by Lessor. Lessee agrees that with respect to any notice of a sale required by law to be given, 10 days' notice will constitute reasonable notice. With respect to any exercise by Lessor of its right to recover and/or dispose of any Equipment or other Collateral securing Lessee's obligations under any Schedule, Lessee acknowledges and agrees as follows: (i) Lessor shall have no obligation, subject to the requirements of commercial reasonableness, to clean-up or otherwise prepare the Equipment or any other Collateral for disposition, (ii) Lessor may comply with any applicable state or federal law requirements in connection with any disposition of the Equipment or other Collateral, and any actions taken in connection therewith shall not be deemed to have adversely affected the commercial reasonableness of any such disposition, and (iii) Lessor may convey the Equipment and any other Collateral on an "AS IS, WHERE IS" basis, and without limiting the generality of the foregoing, may specifically exclude or disclaim any and all warranties, including any warranty of title or the like with respect to the disposition of the Equipment or other Collateral, and no such conveyance or such exclusion or such disclaimer of any warranty shall be deemed to have adversely affected the commercial reasonableness of any such disposition. These remedies are cumulative of every other right or remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise, and may be enforced concurrently therewith or from time to time.

24. PERFORMANCE OF LESSEE'S OBLIGATIONS. If Lessee fails to perform any of its obligations hereunder, Lessor may perform any act or make any payment that Lessor deems reasonably necessary for the maintenance and preservation of the Equipment and Lessor's interests therein; provided, however, that the performance of any act or payment by Lessor shall not be deemed a waiver of, or release Lessee from, the obligation at issue. All sums so paid by Lessor, together with expenses (including legal fees and costs) incurred by Lessor in connection therewith, shall be paid to Lessor by Lessee immediately upon demand.

25. PURCHASE OPTIONS. Lessee may elect, by delivering to Lessor at least 30 days' prior written notice, to purchase on any Rent payment date not less than all Units of Equipment then subject to the Lease (other than items of Software that may not be sold by Lessor under the terms of any applicable License Agreement) for an amount equal to the sum of the Rent then due, all other amounts due under the Lease and the Concluding Payment for such Equipment as of the designated Rent payment date; provided no Lessee Default shall have occurred and be continuing or no event has occurred which with notice or lapse of time could constitute a Lessee Default. In the event of such an election, Lessee shall pay such amount to Lessor, in immediately available funds, on or before the designated Rent payment date. If Lessee shall have elected to purchase the Equipment, shall have so paid the purchase price and shall have fulfilled the terms and conditions of this Master Agreement and the related Schedule, then (1) the Lease with respect to such Equipment shall terminate on the designated Rent payment date and, except as provided in Section 28, Lessee shall be relieved of all of its obligations in favor of Lessor with respect to such Equipment, and (2) Lessor shall transfer all of its interest in such Equipment to Lessee "AS IS, WHERE IS," without any warranty, express or implied, from Lessor, other than the absence of any liens or claims by or through Lessor.

26. ASSIGNMENT. Lessor shall have the unqualified right to sell, assign, grant a security interest in or otherwise convey any part of its interest in this Master Agreement, any Lease or any Equipment, in whole or in part, without prior notice to or the consent of Lessee. If any Lease is sold, assigned, or otherwise conveyed, Lessee agrees that Lessor's purchaser, assignee or transferee, as the case may be ("Assignee") shall (a) have the same rights, powers and privileges that Lessor has under the applicable Lease, (b) have the right to receive from Lessee all amounts due under the applicable Lease; and (c) not be required to perform any obligations of Lessor, other than those that are expressly assumed in writing by such Assignee. Lessee agrees to execute such acknowledgements to such assignment as may be reasonably requested by Lessor or the Assignee. Lessee further agrees that, in any action brought by such Assignee against Lessee to enforce Lessor's rights hereunder, Lessee will not assert against such Assignee any set-off, defense or counterclaim that Lessee may have against Lessor or any other person. Unless otherwise specified by Lessor and the Assignee, Lessee shall continue to pay all amounts due under the applicable Lease to Lessor; provided, however, that upon notification from Lessor and the Assignee, Lessee covenants to pay all amounts due under the applicable Lease to such Assignee when due and as directed in such notice. Lessee further agrees that any Assignee may further sell, assign, grant a security interest in or otherwise convey its rights and interests under the applicable Lease with the same force and effect as the assignment described herein. Lessee may not assign, transfer, sell, sublease, pledge or otherwise dispose of this Master Agreement, any Lease, any Equipment or any interest therein. Lessee shall acknowledge each such assignment in writing if so requested and keep a complete and accurate record of all such assignments in a manner that complies with Section 149 of the Code, and regulations promulgated thereunder.

27. FURTHER ASSURANCES. Lessee agrees to promptly execute and deliver to Lessor such further documents and take such further action as Lessor may require in order to more effectively carry out the intent and purpose of this Master Agreement and any Schedule. Without limiting the generality of the foregoing, Lessee agrees (a) to furnish to Lessor from time to time, its certified financial statements, officer's certificates and appropriate resolutions, opinions of counsel and such other information and documents as Lessor may reasonably request, and (b) to execute and timely deliver to Lessor such documents that Lessor deems necessary to perfect or protect Lessor's security interest in the Collateral or to evidence Lessor's interest in the Equipment. It is also agreed that Lessor or Lessor's agent may file as a financing statement, any lease document (or copy thereof, where permitted by law) or other financing statement that Lessor deems appropriate to perfect or protect Lessor's security interest in the Collateral or to evidence Lessor's interest in the Equipment. Upon demand, Lessee will promptly reimburse Lessor for any filing or recordation fees or expenses (including legal fees and costs) incurred by Lessor in perfecting or protecting its interests in any Collateral. Lessee hereby appoints Lessor and any agent of Lessor as Lessee's attorney-in-fact, with full power of substitution in its place and stead, in its name or in the name of Lessor to from time to time in Lessor's sole discretion take any action and to execute any instrument which Lessor may deem necessary or advisable to protect Lessor's interests hereunder. Lessee acknowledges and agrees that such appointment is coupled with an interest and is irrevocable until the expiration or termination of all Leases and financings and the satisfaction by Lessee of all of its obligations hereunder. Lessee represents and warrants that Lessee's name as set forth in the signature block below is Lessee's full and accurate legal name and that the information set forth on the first page hereof regarding its organization number, tax identification number and location is true and correct as of the date hereof. Lessee further agrees to provide Lessor advance written notice of any change in the foregoing.

28. TERM OF MASTER AGREEMENT; SURVIVAL. This Master Agreement shall commence and be effective upon the execution hereof by both parties and shall continue in effect until terminated by either party by 30 days' prior written notice to the other, provided that the effective date of the termination is after all obligations of Lessee arising hereunder and pursuant to any Schedule have been fully satisfied. Notwithstanding the foregoing, all representations, warranties and covenants made by Lessee hereunder shall survive the termination of this Master Agreement and shall remain in full force and effect. All of Lessor's rights, privileges and indemnities under this Master Agreement or any Lease, to the extent they are fairly attributable to events or conditions occurring or existing on or prior to the expiration or termination of such Lease, shall survive such expiration or termination and be enforceable by Lessor and Lessor's successors and assigns.

29. WAIVER OF JURY TRIAL. LESSEE AND LESSOR HEREBY EXPRESSLY WAIVE ANY RIGHT TO DEMAND A JURY TRIAL WITH RESPECT TO ANY ACTION OR PROCEEDING INSTITUTED BY LESSOR OR LESSEE IN CONNECTION WITH THIS MASTER AGREEMENT OR ANY FUNDAMENTAL AGREEMENT.

30. NOTICES. All notices, requests, demands, waivers and other communications required or permitted to be given under this Master Agreement or any other Fundamental Agreement shall be in writing and shall be deemed to have been received upon receipt if delivered personally or by a nationally recognized overnight courier service, or by confirmed facsimile transmission, or 3 days after deposit in the United States mail, certified, postage prepaid with return receipt requested, addressed as follows (or such other address or fax number as either party shall so notify the other):

If to Lessor:

Hewlett-Packard Company
Attn:
Fax

If to Lessee:

Attn: _____ (“Authorized Lessee Representative”)
Fax: _____

31. MISCELLANEOUS

(a) Governing Law. THIS MASTER AGREEMENT AND EACH LEASE SHALL BE GOVERNED BY THE INTERNAL LAWS (AS OPPOSED TO CONFLICTS OF LAW PROVISIONS) OF THE STATE OF EQUIPMENT LOCATION.

(b) Credit Review. Lessee consents to a reasonable credit review by Lessor for each Lease.

(c) Captions and References. The captions contained in this Master Agreement and any Schedule are for convenience only and shall not affect the interpretation of this Master Agreement or any Lease. All references in this Master Agreement to Sections and Exhibits refer to Sections hereof and Exhibits hereto unless otherwise indicated.

(d) Entire Agreement; Amendments. This Master Agreement and all other Fundamental Agreements executed by both Lessor and Lessee constitute the entire agreement between Lessor and Lessee relating to the leasing of the Equipment, and supersede all prior agreements relating thereto, whether written or oral, and may not be amended or modified except in a writing signed by the parties hereto.

(e) No Waiver. Any failure of Lessor to require strict performance by Lessee, or any written waiver by Lessor of any provision hereof, shall not constitute consent or waiver of any other breach of the same or any other provision hereof.

(f) Lessor Affiliates. Lessee understands and agrees that Hewlett-Packard Financial Services Company or any affiliate or subsidiary thereof may, as lessor, execute Schedules under this Master Agreement, in which event the terms and conditions of the applicable Schedule and this Master Agreement as it relates to the lessor under such Schedule shall be binding upon and shall inure to the benefit of such entity executing such Schedule as lessor, as well as any successors or assigns of such entity. Lessee agrees that Lessor may disclose any information provided by Lessee to Lessor or created by Lessor in the course of administering the Material Agreements to any parent or affiliate of Lessor.

(g) Invalidity. If any provision of this Master Agreement or any Schedule shall be prohibited by or invalid under law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Master Agreement or such Schedule.

(h) Counterparts. This Master Agreement may be executed in counterparts, which collectively shall constitute one document.

(i) Lessor Reliance. Lessor may act in reliance upon any instruction, instrument or signature reasonably believed by Lessor in good faith to be genuine. Lessor may assume that any employee of Lessee who executes any document or gives any written notice, request or instruction has the authority to do so.

32. DEFINITIONS. All capitalized terms used in this Master Agreement have the meanings set forth below or in the Sections of this Master Agreement referred to below:

“**Acceptance Certificate**” means an Acceptance Certificate in substantially the form of Exhibit B, executed by Lessee and delivered to Lessor in accordance with Section 3.

“**Acceptance Date**” means, as to any Lease, the date Lessee shall have accepted the Equipment subject to such Lease in accordance with Section 3.

“**Assignee**” means any assignee of all or any portion of Lessor’s interest in this Master Agreement, any Schedule or any Equipment, whether such assignee received the assignment of such interest from Lessor or a previous assignee of such interest.

“**Authorized Lessee Representative**” has the meaning specified in Section 30.

“**Casualty Loss**” means, with respect to any Equipment, the condemnation, taking, loss, destruction, theft or damage beyond repair of such Equipment.

“**Casualty Value**” means, as to any Equipment, an amount determined as of the date of the Casualty Loss or Lessee Default in question pursuant to a “Table of Casualty Values” attached to the applicable Schedule or, if no “Table of Casualty Values” is attached to the applicable Schedule, an amount equal to the present value as of the date of the Casualty Loss or Lessee Default in question (discounted at 5% per annum, compounded monthly) of all Rent payments payable after such date

“**Claims**” means all claims, actions, suits, proceedings, costs, expenses (including, without limitation, court costs, witness fees and attorneys’ fees), damages, obligations, judgments, orders, penalties, fines, injuries, liabilities and losses, including, without limitation, actions based on Lessor’s strict liability in tort.

“**Code**” means the Internal Revenue Code of 1986, as amended.

“**Collateral**” has the meaning specified in Section 13.

“**Concluding Payments**” means the list of concluding payments on the attachment to the applicable Schedule.

“**Daily Rent**” means, as to any Lease, an amount equal to the per diem Rent payable under the applicable Schedule (calculated on the basis of a 360 day year and 30 day months).

“**Equipment**” has the meaning specified in Section 1.

“**Equipment Location**” means, as to any Equipment, the address at which such Equipment is located from time to time, as originally specified in the applicable Schedule and as subsequently specified in a notice delivered to Lessor pursuant to Section 12, if applicable.

“**Fair Market Value**” means the total price that would be paid for any specified Equipment in an arm’s length transaction between an informed and willing buyer (other than a used equipment dealer) under no compulsion to buy and an informed and willing seller under no compulsion to sell. Such total price shall not be reduced by the costs of removing such Equipment from its current location or moving it to a new location.

“**Final Invoice Amount**” has the meaning set forth in Section 2(c).

“**First Payment Date**” means, as to any Lease, the date the first Rent payment with respect to such Lease is due, as determined pursuant to the terms of the applicable Schedule.

“**Fiscal Period**” shall mean the fiscal year of Lessee, as it may be more particularly described in a Schedule.

“**Fundamental Agreements**” means, collectively, this Master Agreement, each Schedule and Acceptance Certificate and all other related instruments and documents.

“**Hardware**” means items of tangible equipment and other property.

“**Lease**” has the meaning specified in Section 2(a).

“Lessee” has the meaning specified in the preamble hereof.

“Lessee Default” has the meaning specified in Section 22.

“Lessor” has the meaning specified in the preamble hereof.

“License Agreement” means any license agreement or other document granting the purchaser the right to use Software or any technical information, confidential business information or other documentation relating to Hardware or Software, as amended, modified or supplemented by any other agreement between the licensor and Lessor.

“Master Agreement” has the meaning specified in the preamble hereof.

“Material Agreements” means, collectively, all Fundamental Agreements, all other material agreements by and between Lessor and Lessee, and any application for credit, financial statement, or financial data required to be provided by Lessee in connection with any Lease.

“Mobile PC Equipment” has the meaning specified in Section 12 hereof.

“Non-Appropriation” has the meaning specified in Section 7.

“Optional Additions” has the meaning specified in Section 11.

“PC Equipment” means, collectively, personal computers (e.g., workstations, desktops and notebooks) and related items of peripheral equipment (e.g., monitors, printers and docking stations).

“Purchase Documents” means, as to any Equipment, any purchase order, contract, bill of sale, License Agreement, invoice and/or other documents that Lessee has, at any time, approved, agreed to be bound by or entered into with any Supplier of such Equipment relating to the purchase, ownership, use or warranty of such Equipment.

“Rent” has the meaning specified in Section 4.

“Schedule” means, unless the context shall otherwise require a Schedule executed by Lessor and Lessee pursuant to Section 2(a).

“Seller” means, as to any Equipment, the seller of such Equipment as specified in the applicable Schedule.

“Software” means copies of computer software programs owned or licensed by Lessor, and any disks, CDs, or other media on which such programs are stored or written.

“State” means any of the states of the United States, its territories and possessions.

“Stipulated Loss Value” means, as to any Equipment, an amount equal to the sum of (a) all Rent (including the Daily Rent from the Rent payment date immediately preceding the date of the Casualty Loss or Lessee Default to the date of the Casualty Loss or Lessee Default) and other amounts due and owing with respect to such Equipment as of the date of payment of such amount, plus (b) the Casualty Value of such Equipment.

“Substitute Equipment” means, as to any item of Hardware or Software subject to a Lease, a substantially equivalent or better item of Hardware or Software having equal or greater capabilities and equal or greater Fair Market Value manufactured or licensed by the same manufacturer or licensor as such item of Hardware or Software subject to a Lease. The determination of whether any item of Equipment is substantially equivalent or better than an item of Equipment subject to a Lease shall be based on all relevant facts and circumstances, but shall minimally require, in the case of a computer, that each of processor, hard-drive, random access memory and CD ROM drive, if applicable, be equivalent or better.

“Supplier” means as to any Equipment, the Seller and the manufacturer or licensor of such Equipment collectively, or where the context requires, any of them. In certain Leases, the Supplier may be Lessor.

“System Software” means an item of Software that is pre-loaded on an item of Hardware purchased by Lessor for lease hereunder for which the relevant Purchase Documents specify no purchase price separate from the aggregate purchase price specified for such items of Hardware and Software.

“Taxes” means all license and registration fees and all taxes (local, state and federal), fees, levies, imposts, duties, assessments, charges and withholding of any nature whatsoever, however designated (including, without limitation, any value added, transfer, sales, use, gross receipts, business, occupation, excise, personal property, real property, stamp or other taxes) other than taxes measured by Lessor’s income.

“Term” means the term thereof as specified in the related Schedule.

“Total Cost” means as to any Lease, the total acquisition cost to Lessor of the Equipment subject to such Lease as set forth in the applicable Purchase Documents, including related delivery, installation, taxes and other charges which Lessor has agreed to pay and treat as a portion of such acquisition cost, if any.

“UCC” means the Uniform Commercial Code as enacted and in effect in any applicable jurisdiction.

“Unit of Equipment” means, as to the Equipment leased pursuant to any Schedule (a) each individual item of PC Equipment leased pursuant to such Schedule, and (b) all Equipment taken as a whole leased pursuant to such Schedule other than PC Equipment taken as a whole.

IN WITNESS WHEREOF, LESSEE AND LESSOR HAVE EXECUTED THIS MASTER AGREEMENT ON THE DATES SPECIFIED BELOW.

LESSEE:

By: _____

Name and Title

Date

LESSOR:

HEWLETT-PACKARD COMPANY

By: _____

Name and Title

Date



Master Agreement Number _____
Schedule Number _____

COUNTERPART NO. _____ OF _____. TO THE EXTENT THAT THIS SCHEDULE CONSTITUTES CHATTEL PAPER (AS DEFINED ON THE
UCC), NO SECURITY INTEREST IN THIS SCHEDULE MAY BE CREATED THROUGH THE TRANSFER OR POSSESSION OF ANY
COUNTERPART OTHER THAN COUNTERPART NO. 1.

STATE AND LOCAL GOVERNMENT MASTER LEASE PURCHASE AGREEMENT
SCHEDULE

Hewlett-Packard Company ("Lessor") and _____, an agency, department or political subdivision of the State of _____ ("Lessee") are parties to the State and Local Government Master Lease Purchase Agreement identified by the Master Agreement Number specified above (the "Master Agreement"). This Schedule (which shall be identified by the Schedule Number specified above) and the Master Agreement together comprise a separate Lease between the parties. The terms and conditions of the Master Agreement are hereby incorporated by reference into this Schedule. All capitalized terms used in this Schedule without definition have the meanings ascribed to them in the Master Agreement.

1. LEASE.

A. Description of Items of Leased Equipment Total Cost

B. Term: ____ Months.

2. Rent. See Attachment A. Annual Rate of Interest _____

3. LATEST COMMENCEMENT DATE: _____. Lessor's obligation to purchase and lease the Equipment is subject to the Acceptance Date being on or before the Latest Commencement Date.

4. EQUIPMENT LOCATION: _____ .

5. SELLER: _____ .

6. APPROPRIATIONS: Monies for all Rent and other payments due under the Lease for the Fiscal Period ending _____ are available from Lessee's appropriated funds for such Fiscal Period and that appropriations and/or other funds have been encumbered or designated for the payment of all Rent and other payments that shall become due under the Lease in such Fiscal Period.

7. ADDITIONAL PROVISIONS: _____

8. FISCAL PERIOD: __[Annual]__

LESSOR AGREES TO LEASE TO LESSEE AND LESSEE AGREES TO LEASE FROM LESSOR THE EQUIPMENT DESCRIBED IN SECTION 1.A ABOVE. SUCH LEASE WILL BE GOVERNED BY THE MASTER AGREEMENT AND THIS SCHEDULE, INCLUDING THE IMPORTANT ADDITIONAL TERMS AND CONDITIONS SET FORTH ABOVE. IN THE EVENT OF ANY CONFLICT BETWEEN THE TERMS OF THIS SCHEDULE AND THE MASTER AGREEMENT, THE TERMS OF THIS SCHEDULE SHALL GOVERN. LESSEE HEREBY REPRESENTS AND WARRANTS THAT ON AND AS OF THE DATE HEREOF EACH OF THE REPRESENTATIONS AND WARRANTIES MADE BY LESSEE IN THE MASTER AGREEMENT ARE TRUE, CORRECT AND COMPLETE.

LESSEE:

By: _____

Name and Title

Date

LESSOR:
HEWLETT-PACKARD COMPANY

By: _____

Name and Title

Date

ATTACHMENT A

TO

SCHEDULE TO STATE AND LOCAL GOVERNMENT MASTER LEASE PURCHASE AGREEMENT

The first payment of Rent will be due [__ days after][on] the Acceptance Date and all payments will be due [monthly][quarterly][semi-annually][annually] thereafter.

<u>Rent Payment No</u>	<u>Rent</u>	<u>Interest</u>	<u>Principal</u>	<u>Concluding Payments</u>
------------------------	-------------	-----------------	------------------	----------------------------

PLEASE INITIAL HERE: _____
Lessee



Master Agreement Number _____
Schedule Number _____

**STATE AND LOCAL GOVERNMENT MASTER LEASE PURCHASE AGREEMENT
ACCEPTANCE CERTIFICATE**

Hewlett-Packard Financial Services Company¹ ("Lessor") and _____, an agency, department or political subdivision of the State of _____ ("Lessee") are parties to the State and Local Government Master Lease Purchase Agreement (the "Master Agreement") and Schedule under such Master Agreement (the "Schedule") identified by the Master Agreement Number and Schedule Number, respectively, specified above. The Master Agreement and Schedule together comprise a separate Lease, that is being accepted and commenced pursuant to this Acceptance Certificate. All capitalized terms used in this Acceptance Certificate without definition have the meanings ascribed to them in the Master Agreement.

1. LEASE ACCEPTANCE. Lessee hereby acknowledges that the Equipment described in Section 1 of the Schedule, or if different, the Equipment described in the attached invoice or other attachment hereto, has been delivered to the Equipment Location specified below, inspected by Lessee and found to be in good operating order and condition, and has been unconditionally and irrevocably accepted by Lessee under the Lease evidenced by the Master Agreement and the Schedule as of the Acceptance Date set forth below. Lessee authorizes Lessor to reduce the Rent payments on the Schedule to reflect the Final Invoice Amount set forth on the attached invoice(s) if such amount is different than the Total Cost on the Schedule.

2. LESSEE ACKNOWLEDGEMENTS. Lessee hereby agrees to faithfully perform all of its obligations under the Master Agreement and the Schedule and reaffirms, as of the date hereof, its representations and warranties as set forth in the Master Agreement. Lessee hereby acknowledges its agreement to pay Lessor Rent payments, as set forth in the Schedule, plus any applicable taxes, together with all other costs, expenses and charges whatsoever which Lessee is required to pay pursuant to the Master Agreement and the Schedule, in each instance at the times, in the manner and under the terms and conditions set forth in the Master Agreement and the Schedule, respectively.

3. EQUIPMENT LOCATION. The Equipment has been installed and is located at the following Equipment Location:

4. REPRESENTATIONS AND WARRANTIES. Lessee hereby represents and warrants that on and as of the date hereof each of the representations and warranties made by Lessee in the Master Agreement are true, correct and complete.

[LESSEE]

By: _____

Name and Title

Acceptance Date: _____

HP Appendix C—Master Operating Lease Agreement

Proposal Reference: Appendix D—NASPO Standard Terms and Conditions, section Financing Terms and Condition



Master Agreement Number _____

Lessee's Organization Number _____
Lessee's Tax Identification Number _____
Lessee's UCC Section 9-307 Location _____

STATE AND LOCAL GOVERNMENT MASTER OPERATING LEASE AGREEMENT

This State and Local Government Master Operating Lease Agreement (together with Exhibits A and B attached hereto and hereby made a part hereof, (this "Master Agreement"), dated as of _____, is entered into by and between Hewlett-Packard Company, a Delaware corporation ("Lessor"), and _____, an agency, department or political subdivision of the State of _____ ("Lessee"). Capitalized terms used in this Master Agreement without definition have the meanings ascribed to them in Section 31.

1. PURPOSE OF MASTER AGREEMENT. The purpose of this Master Agreement is to set forth the general terms and conditions upon which Lessor shall lease to Lessee, and Lessee shall lease from Lessor, items of Hardware, Software or both (such Hardware and Software being collectively referred to as "Equipment").

2. COMMENCEMENT PROCEDURES. Subject to the other terms and conditions contained in this Master Agreement and the applicable Schedule, Lessee shall enter into individual Leases (hereinafter defined) with Lessor as follows:

(a) Execution of Schedule. Lessor and Lessee mutually agree to enter into a Lease by executing a Schedule in the form of Exhibit A with such changes as Lessor and Lessee shall have agreed to as conclusively evidenced by their execution thereof. Each such Schedule shall specifically identify (by serial number or other identifying characteristics) the items of Equipment to be leased under such Schedule (other than items of System Software, which shall be deemed to be items of Software leased under the Schedule pursuant to which the related items of Hardware are leased). Each Schedule, when executed by both Lessee and Lessor, together with this Master Agreement, shall constitute a separate and distinct lease ("Lease"), enforceable according to its terms. In the event of any conflict between the terms of this Master Agreement and such Schedule, the provisions of the Schedule shall govern.

(b) Acceptance; Initial Term of Leases. Lessee shall accept the Equipment subject to a Lease in accordance with Section 3. The Initial Term of each Lease shall begin on the Acceptance Date of the Equipment subject to such Lease and shall continue for the period described in the applicable Schedule unless a Nonappropriation shall have occurred.

(c) Adjustments to Schedule. Lessee acknowledges that the Total Cost of Equipment and the related Rent payments set forth in any Schedule may be estimates, and if the final invoice from the Seller attached to the related Acceptance Certificate(s) specifies a Total Cost that is less than the estimated Total Cost set forth in the Schedule, Lessee hereby authorizes Lessor to reduce the applicable Total Cost and Rent payment on the Schedule by up to ten percent (10%) to reflect such final invoice amount (the "Final Invoice Amount"). All references in this Master Agreement and any Schedule to Total Cost and Rent shall mean the amounts thereof specified in the applicable Schedule, as adjusted pursuant to this paragraph.

(d) Payment by Lessor. Within 30 days after Lessee's delivery to Lessor of a properly completed and executed Acceptance Certificate and all other documentation necessary to establish Lessee's acceptance of such Equipment under the related Lease and Lessor's acceptance of such Acceptance Certificate, Lessor shall pay for the Equipment. Lessor shall not accept the Acceptance Certificate until it has received from Lessee (1) evidence of insurance with respect to the Equipment in compliance with Section 13 hereof, (2) an opinion of Lessee's counsel, if required by Lessor, in form and substance reasonably satisfactory to Lessor and (3) any other documents or items reasonably required by Lessor. Notwithstanding the foregoing, Lessor shall not be obligated to pay for the Equipment if a Lessee Default has occurred or an event has occurred and is continuing that with the passage of time or provision of notice would constitute a Lessee Default.

3. ACCEPTANCE OF EQUIPMENT. (a) Inspection of Equipment. Lessee agrees to inspect all Equipment as soon as reasonably practicable after the delivery thereof to Lessee.

(b) Acceptance Certificate. Upon the satisfactory inspection of the Equipment by Lessee, or if acceptance requirements for such Equipment are specified in the applicable Purchase Documents, as soon as such requirements are met, Lessee shall unconditionally and irrevocably accept the Equipment by executing and delivering to Lessor a properly completed Acceptance Certificate in substantially the form of Exhibit B.

4. LESSEE'S END-OF-LEASE-TERM OPTIONS; AUTOMATIC EXTENSION. Lessee shall have the following options in respect of each Lease at the end of each of the Initial Term, any Renewal Term and any optional extension of the Initial Term or any Renewal Term:

a. Purchase Option. Lessee may elect, by delivering to Lessor an End-of-Term Notice at least 90 days prior to the expiration of the Initial Term, any Renewal Term or any optional extension of the Initial Term or any Renewal Term, to purchase any or all Units of Equipment then subject to such Lease (other than items of Software that may not be sold by Lessor under the terms of any applicable License Agreement) for an amount equal to the Fair Market Value of such Units of Equipment as of the end of the Then Applicable Term, provided no Lessee Default shall have occurred and be continuing. In the event of such an election, Lessee shall pay such amount to Lessor, in immediately available funds, on or before the last day of the Then Applicable Term. If Lessee shall have so elected to purchase any of the Units of Equipment, shall have so paid the applicable purchase price and shall have fulfilled the terms and conditions of this Master Agreement, then on the last day of the Then Applicable Term (1) the Lease with respect to such Units of Equipment shall terminate and, except as provided in Section 26, Lessee shall be relieved of all of its obligations in favor of Lessor with respect to such Units of Equipment, and (2) Lessor shall transfer all of its interest in such Units of Equipment to Lessee "AS IS, WHERE IS," without any warranty, express or implied, from Lessor, other than the absence of any liens or claims by or through Lessor. In the event Lessor and Lessee are unable to agree on the Fair Market Value of any Units of Equipment, Lessor shall, at Lessee's expense, select an independent appraiser to conclusively determine such amount.

b. Renewal Option. Lessee may elect, by delivering to Lessor an End-of-Term Notice at least 90 days prior to the expiration of the Initial Term, any Renewal Term, or any optional extension of the Initial Term or any Renewal Term, to renew the Lease with respect to any or all Units of Equipment then subject to such Lease (other than items of Software that may not be re-released by Lessor under the terms of any applicable License Agreement) for an amount equal to the Fair Rental Value of such Units of Equipment as of the end of the Then Applicable Term. In the event of such an election, Lessee shall enter into a mutually agreeable renewal agreement with Lessor ("Renewal Agreement") on or before the last day of the Then Applicable Term confirming the Units of Equipment as to which the Lease is to be renewed, the period for which the Lease is to be renewed (the "Renewal Term"), and the amount of Rent and the times at which such Rent is to be payable during the Renewal

Term. In the event Lessor and Lessee are unable to agree on the Fair Rental Value of any Units of Equipment, Lessor shall, at Lessee's expense, select an independent appraiser to conclusively determine such amount.

c. Return. Lessee may elect, by delivering to Lessor an End-of-Term Notice at least 90 days prior to the expiration of the Initial Term, any Renewal Term or any optional extension of the Initial Term or any Renewal Term, to return any or all of the Units of Equipment then subject to such Lease in accordance with Section 10 of this Master Agreement.

d. Optional Extension. Lessee may elect, by omitting to deliver to Lessor an End-of-Term Notice at least 90 days prior to the expiration of the Initial Term or any Renewal Term, to extend the Initial Term or such Renewal Term, as the case may be. In that event, the Initial Term or such Renewal Term shall, without any additional notice or documentation, be automatically extended for successive calendar months with respect to all items of Equipment then subject to such Lease through the end of the calendar month falling at least 90 days after the date Lessee shall have delivered to Lessor an End-of-Term Notice with respect to such Lease. For each calendar month that the Then Applicable Term of such Lease is so extended, Lessee shall pay to Lessor Rent in an amount equal to the monthly Rent payment in effect immediately prior to such extension (or the appropriate pro rata portion of the Rent payment then in effect in the case of Rent payable other than on a monthly basis), and all other provisions of this Master Agreement and the applicable Schedule shall continue to apply.

If Lessee shall have delivered to Lessor an End-of-Term Notice with respect to a Lease, but shall have subsequently failed to comply with its obligations arising from its elections specified therein (e.g., Lessee shall have failed, on or before the last day of the Then Applicable Term (1) to pay Lessor the purchase price for Equipment to be purchased in accordance with Section 4(a) above, (2) to execute a Renewal Agreement with respect to Equipment as to which the Lease is to be renewed in accordance with Section 4(b) above, or (3) to return to Lessor Equipment to be returned in accordance with Section 4(c) above), then the Then Applicable Term of such Lease shall, without any additional notice or documentation, be automatically extended for successive calendar months with respect to all items of Equipment as to which Lessee shall have so failed to comply with its obligations through the end of the calendar month in which Lessee shall have complied with such obligations. For each calendar month that the Then Applicable Term of any Lease is so extended, Lessee shall pay to Lessor Rent in an amount equal to the monthly Rent payment in effect immediately prior to such extension (or the appropriate pro rata portion of the Rent payment then in effect in the case of Rent payable other than on a monthly basis), and all other provisions of this Master Agreement and the applicable Schedule shall continue to apply. Notwithstanding any of the provisions of this Section 4 to the contrary, if any Lessee Default shall have occurred and be continuing at any time during the last 90 days of the Then Applicable Term of any Lease, Lessor may cancel any Renewal Term or optional or other automatic extension of the Then Applicable Term immediately upon written notice to Lessee.

5. RENT; LATE CHARGES. As rent ("Rent") for the Equipment under any Lease, Lessee agrees to pay the amounts specified in the applicable Schedule on the due dates specified in the applicable Schedule. Lessee agrees to pay Lessor interest on any Rent payment or other amount due hereunder that is not paid within 10 days of its due date, at the rate of 1-1/2% per month (or such lesser rate as is the maximum rate allowable under applicable law). Lessee will make provision for such payments in budgets submitted to its governing body for the purpose of obtaining funding for the payments.

6. LEASES NON-CANCELABLE; NET LEASES; WAIVER OF DEFENSES TO PAYMENT. IT IS SPECIFICALLY UNDERSTOOD AND AGREED THAT EACH LEASE HEREUNDER SHALL BE NON-CANCELABLE (EXCEPT AS SET FORTH IN SECTION 7 HEREOF), AND THAT EACH LEASE HEREUNDER IS A NET LEASE (SO THAT AMONG OTHER THINGS LESSEE SHALL PAY IN ADDITION TO THE RENT, TAXES, INSURANCE AND MAINTENANCE CHARGES RELATED TO THE EQUIPMENT). LESSEE AGREES THAT IT HAS AN ABSOLUTE AND UNCONDITIONAL OBLIGATION TO PAY ALL RENT AND OTHER AMOUNTS WHEN DUE. LESSEE HEREBY WAIVES ANY RECOUPMENT, CROSS-CLAIM, COUNTERCLAIM OR ANY OTHER DEFENSE AT LAW OR IN EQUITY TO ANY RENT OR OTHER AMOUNT DUE WITH RESPECT TO ANY LEASE, WHETHER ANY SUCH DEFENSE ARISES OUT OF THIS MASTER AGREEMENT, ANY SCHEDULE, ANY CLAIM BY LESSEE AGAINST LESSOR, LESSOR'S ASSIGNEES OR SUPPLIER OR OTHERWISE. IF THE EQUIPMENT IS NOT PROPERLY INSTALLED, DOES NOT OPERATE OR INTEGRATE AS REPRESENTED OR WARRANTED BY SUPPLIER OR IS UNSATISFACTORY FOR ANY REASON WHATSOEVER, LESSEE WILL MAKE ANY CLAIM ON ACCOUNT OF THOSE ISSUES SOLELY AGAINST SUPPLIER AND WILL NEVERTHELESS PAY ALL SUMS DUE WITH RESPECT TO EACH LEASE.

7. NONAPPROPRIATION. Notwithstanding anything contained in this Master Agreement to the contrary, in the event that sufficient funds are not appropriated and budgeted by Lessee's governing body or are not otherwise available from other legally available sources in any fiscal period for the payment of Rent and other amounts due under any Lease, the Lease shall terminate on the last day of the fiscal period for which appropriations were received or other amounts are available to pay amounts due under the Lease without penalty or expense to Lessee of any kind whatsoever, except as to the portions of Rent payments or other amounts herein agreed upon for which funds shall have been appropriated or are otherwise available. Lessee will immediately notify the Lessor or its assignee of such occurrence. In the event of such termination, Lessee shall immediately cease all use of the Equipment, and shall, at its sole expense and risk, immediately de-install, disassemble, pack, crate, insure, and return the Equipment subject to such Lease to Lessor (all in accordance with Section 10 of this Master Agreement). Such Equipment shall be in the same condition as when received by Lessee (reasonable wear, tear and depreciation resulting from normal and proper use excepted), shall be in good operating order and maintenance as required by this Lease, shall be free and clear of any liens (except Lessor's lien) and shall comply with all applicable laws and regulations. Lessee agrees to execute and deliver to Lessor all documents reasonably requested by Lessor or evidence the transfer of legal and beneficial title to such Equipment to Lessor and to evidence the termination of Lessee's interest in such Equipment. Lessor will have all legal and equitable rights and remedies to take possession of the Equipment. At Lessor's request, Lessee shall promptly provide supplemental documentation as to such Non-Appropriation satisfactory to Lessor. Lessee's exercise of its rights pursuant to this Section 7 shall not affect the survival of any indemnity and other provisions (other than the obligation to lease the Equipment and pay amounts due under the Lease) which survive the termination of the Lease.

8. ASSIGNMENT OF PURCHASE DOCUMENTS. Lessee assigns to Lessor all of Lessee's right, title and interest in and to (a) the Equipment described in each Schedule, and (b) the Purchase Documents relating to such Equipment. Such assignment of the Purchase Documents is an assignment of rights only; nothing in this Master Agreement shall be deemed to have relieved Lessee of any obligation or liability under any of the Purchase Documents, except that, as between Lessee and Lessor, Lessor shall pay for the Equipment in accordance with Section 2(d) hereof. Lessee represents and warrants that it has reviewed and approved the Purchase Documents. In addition, if Lessor shall so request, Lessee shall deliver to Lessor a document acceptable to Lessor whereby Seller acknowledges and provides any required consent to such assignment. For the avoidance of doubt, Lessee covenants and agrees that it shall at all times during the Total Term of each Lease comply in all respects with the terms of any License Agreement relating to any Equipment leased thereunder. **IT IS ALSO SPECIFICALLY UNDERSTOOD AND AGREED THAT NEITHER SUPPLIER NOR ANY SALESPERSON OF SUPPLIER IS AN AGENT OF LESSOR, NOR ARE THEY AUTHORIZED TO WAIVE OR ALTER ANY TERMS OF THIS MASTER AGREEMENT OR ANY SCHEDULE.**

9. ASSIGNMENT OF SUPPLIER WARRANTIES. To the extent permitted, Lessor hereby assigns to Lessee, for the Total Term of any Lease, all Equipment warranties provided by any Supplier in the applicable Purchase Documents. Lessee shall have the right to take any action it deems appropriate to enforce such warranties provided such enforcement is pursued in Lessee's name and at its expense. In the event Lessee is precluded from enforcing any such warranty in its name, Lessor shall, upon Lessee's request, take reasonable steps to enforce such warranty. In such circumstances, Lessee shall, promptly upon demand, reimburse Lessor for all expenses incurred by Lessor in enforcing the Supplier warranty. Any recovery resulting from any such enforcement efforts shall be divided among Lessor and Lessee as their interests may appear.

10. EQUIPMENT RETURN REQUIREMENTS. At any time Lessee is required to return Equipment to Lessor under the terms of this Master Agreement or any Schedule, Lessee shall (a) wipe clean or permanently delete all data contained on the Equipment, including without limitation, any data contained on internal or external

drives, discs, or accompanying media, and (b) pack the Equipment to be returned to Lessor in accordance with the manufacturer's guidelines and deliver such Equipment to Lessor at any destination within the continental United States designated by Lessor. In the case of any item of Software or License Agreement subject to a Schedule, at the time of the occurrence of a Non-Appropriation or a Lessee Default, Lessee shall also be automatically deemed to have reassigned any License Agreement, and shall immediately de-install and deliver to Lessor all Software, together with the original certificate of authenticity issued by the licensor of such Software, if any. All dismantling, packaging, transportation, in-transit insurance and shipping charges shall be borne by Lessee. All Equipment shall be returned to Lessor in the same condition and working order as when delivered to Lessee, reasonable wear and tear excepted, and except in the case of PC Equipment and Software, shall qualify for maintenance service by the Supplier at its then standard rates for Equipment of that age, if available. Lessee shall be responsible for, and shall reimburse Lessor promptly on demand for the cost of returning the Equipment to good working condition or, in the case of Equipment other than PC Equipment and Software, qualifying the Equipment for the Supplier's maintenance service, if available.

11. EQUIPMENT USE, MAINTENANCE, AND ADDITIONS. Lessee is solely responsible for the selection, installation, operation and maintenance of the Equipment and all costs related thereto, including shipping charges. Lessee shall at all times operate and maintain the Equipment in good working order, repair, condition and appearance, and in accordance with the manufacturer's specifications and recommendations. On reasonable prior notice to Lessee, Lessor and Lessor's agents shall have the right, during Lessee's normal business hours and subject to Lessee's reasonable, standard security procedures, to enter the premises where the Equipment is located for the purpose of inspecting the Equipment and observing its use. If Lessor shall have provided to Lessee any tags or identifying labels, Lessee shall, at its expense, affix and maintain in a prominent position on each item of Equipment such tags or labels to indicate Lessor's ownership of the Equipment. Except in the case of PC Equipment and Software, Lessee shall, at its expense, enter into and maintain and enforce at all times during the Total Term of each Lease a maintenance agreement to service and maintain the related Equipment, upon terms and with a provider reasonably acceptable to Lessor. Lessee shall make no alterations or additions to the Equipment, except those that (a) will not void any warranty made by the Supplier of the Equipment, result in the creation of any security interest, lien or encumbrance on the Equipment or impair the value or use of the Equipment either at the time made or at the end of the Term of the applicable Lease, and are readily removable without damage to the Equipment ("Optional Additions"), or (b) are required by any applicable law, regulation or order. All additions to the Equipment or repairs made to the Equipment, except Optional Additions, become a part of the Equipment and Lessor's property at the time made; Optional Additions which have not been removed in the event of the return of the Equipment shall become Lessor's property upon such return.

12. EQUIPMENT OWNERSHIP; LIENS; LOCATION. As between Lessor and Lessee, Lessor is the sole owner of the Equipment and has sole title thereto, Lessee shall not make any representation to any third party inconsistent with Lessor's sole ownership of the Equipment. Lessee covenants with respect to each Lease that: (i) it will not pledge or encumber the Equipment or Lessor's interest in the Equipment in any manner whatsoever nor create or permit to exist any levy, lien or encumbrance thereof or thereon except those created by or through Lessor; (ii) the Equipment shall remain personal property whether or not affixed to realty and shall not become a fixture or be made to become a part of any real property on which it is placed without Lessor's prior written consent; and (iii) Lessee shall maintain the Equipment so that it does not become essential to and may be removed from any building in which it is placed without any damage to the building or the Equipment. Lessee may permit use of the Equipment by its affiliates or independent contractors at the Equipment Location provided it does not relinquish possession and control of the Equipment. Provided Lessee remains in possession and control of the Equipment, Lessee may relocate any Equipment from the Equipment Location specified in the applicable Schedule to another of its locations within the State of the Equipment Location upon prior written notice to Lessor specifying the new Equipment Location or to another of its locations within the United States after receiving the written consent of Lessor to such relocation. Lessee shall not locate or relocate any Equipment such that any third party comes into possession or control thereof without Lessor's prior written consent; provided, however, that Lessor shall not unreasonably withhold its consent to the location or relocation of Equipment to a third party co-location or hosting facility if such third party shall have executed and delivered to Lessor a waiver agreement in form and substance acceptable to Lessor pursuant to which, among other things, such third party shall have waived any rights to the Equipment and agreed to surrender the Equipment to Lessor in the event of a Lessee Default under this Master Agreement. Notwithstanding the foregoing, Lessor agrees that computer equipment usable outside of a fixed office environment, such as laptops, notebooks or similar PC Equipment (collectively, "Mobile PC Equipment") may be relocated on a non-permanent basis from the Equipment Location originally specified in the applicable Schedule without Lessor's prior written consent, provided that (i) such relocation is made by Lessee's primary employee in the custody and control of such Mobile PC Equipment; (ii) the primary employee remains in possession and control of the Mobile PC Equipment, and (iii) the primary employee's principal office is the Equipment Location. For purposes of this Master Agreement and any applicable Schedule, the term Equipment shall be deemed to include all Mobile PC Equipment.

13. RISK OF LOSS AND INSURANCE. Lessee assumes any and all risk of loss or damage to the Equipment from the time such Equipment is delivered to Lessee until such Equipment is returned to and is received by Lessor in accordance with the terms and conditions of this Master Agreement. Lessee agrees to keep the Equipment insured at Lessee's expense against all risks of loss from any cause whatsoever, including without limitation, loss by fire (including extended coverage), theft and damage. Lessee agrees that such insurance shall name Lessor or its assignee, if applicable, as a loss payee and cover not less than the Stipulated Loss Value of the Equipment. Lessee also agrees that it shall carry commercial general liability insurance in an amount not less than \$2,000,000 total liability per occurrence and cause Lessor and its affiliates and its and their successors and assigns, to be named additional insureds under such insurance. Each policy shall provide that the insurance cannot be canceled without at least 30 days' prior written notice to Lessor, or its assignee if applicable, and no policy shall contain a deductible in excess of \$25,000. Upon Lessor's prior written consent, in lieu of maintaining insurance obtained by third party insurance carriers, Lessee may self insure against such risks, provided that Lessor's interests are protected to the same extent as if the insurance had been obtained by third party insurance carriers and provided further that such self insurance program is consistent with prudent business practices with respect with such insurance risk. Lessee shall provide to Lessor, or its assignee, if applicable, (a) on or prior to the Acceptance Date for each Lease, and from time to time thereafter, certificates of insurance evidencing such insurance coverage throughout the Total Term of each Lease, and (b) upon Lessor's request, copies of the insurance policies. If Lessee fails to provide Lessor or its assigns with such evidence, then Lessor will have the right, but not the obligation, to purchase such insurance protecting Lessor at Lessee's expense. Lessee's expense shall include the full premium paid for such insurance and any customary charges, costs or fees of Lessor. Lessee agrees to pay such amounts in substantially equal installments allocated to each Rent payment (plus interest on such amounts at the rate of 1-1/2% per month or such lesser rate as is the maximum rate allowable under applicable law).

14. CASUALTY LOSS. Lessee shall notify Lessor of any Casualty Loss or repairable damage to any Equipment as soon as reasonably practicable after the date of any such occurrence but in no event later than 30 days after such occurrence. In the event any Casualty Loss shall occur, on the next Rent payment date Lessee shall (a) at Lessee's option provided no Lessee Default has occurred nor an event that with the passage of time or provision of notice would constitute a Lessee Default has occurred and is continuing or (b) at Lessor's option if a Lessee Default has occurred or an event that with the passage of time or provision of notice would constitute a Lessee Default has occurred and is continuing (1) subject to Section 7 hereof, pay Lessor the Stipulated Loss Value of the Equipment suffering the Casualty Loss, or (2) substitute and replace each item of Equipment suffering the Casualty Loss with an item of Substitute Equipment. If Lessee shall pay the Stipulated Loss Value of the Equipment suffering a Casualty Loss, upon Lessor's receipt in full of such payment the applicable Lease shall terminate as it relates to such Equipment and, except as provided in Section 26, Lessee shall be relieved of all obligations under the applicable Lease as it relates to such Equipment. If Lessee shall replace Equipment suffering a Casualty Loss with items of Substitute Equipment (i) the applicable Lease shall continue in full force and effect without any abatement of Rent with such Substitute Equipment thereafter being deemed to be Equipment leased thereunder, and (ii) Lessee shall deliver to Lessor a bill of sale or other documentation, in either case in form and substance satisfactory to Lessor, in which Lessee shall represent and warrant that it has transferred to Lessor good and marketable title to all Substitute Equipment, free and clear of all liens, encumbrances and claims of others. Upon Lessor's receipt of such payment of Stipulated Loss Value in full, or such bill of sale or other documentation, as the case may be, Lessor shall transfer to Lessee all of Lessor's interest in the Equipment suffering the Casualty Loss "AS IS, WHERE IS," without any warranty, express or implied, from Lessor, other than the absence of any liens or claims by or through Lessor. In the event of any repairable damage to any

Equipment, the Lease shall continue with respect to such Equipment without any abatement of Rent and Lessee shall, at its expense, from insurance proceeds or other funds legally available, promptly cause such Equipment to be repaired to the condition it is required to be maintained pursuant to Section 11.

15. TAXES. Lessor shall report and pay all Taxes now or hereafter imposed or assessed by any governmental body, agency or taxing authority upon the purchase, ownership, delivery, installation, leasing, rental, use or sale of the Equipment, the Rent or other charges payable hereunder, or otherwise upon or in connection with any Lease, whether assessed on Lessor or Lessee, other than any such Taxes required by law to be reported and paid by Lessee. Lessee shall promptly reimburse Lessor for all such Taxes paid by Lessor, together with any penalties or interest in connection therewith attributable to Lessee's acts or failure to act, excluding (a) Taxes on or measured by the overall gross or net income or items of tax preference of Lessor, (b) as to any Lease the related Equipment, Taxes attributable to the period after the return of such Equipment to Lessor, and (c) Taxes imposed as a result of a sale or other transfer by Lessor of any portions of its interest in any Lease or in any Equipment except for a sale or other transfer to Lessee or a sale or other transfer occurring after and during the continuance of any Lessee Default.

16. GENERAL INDEMNITY. Lessee, to the extent permitted by law, shall indemnify and hold harmless Lessor and assignees, from and against any and all Claims arising directly or indirectly out of or in connection with any matter involving this Master Agreement, the Equipment or any Lease, including but not limited to the selection, manufacture, purchase, acceptance, rejection, ownership, delivery, lease, possession, maintenance, use (including any patent, trademark or copyright infringement), condition, return or operation of any Equipment or the enforcement of Lessor's rights under any Lease. Notwithstanding the foregoing, Lessee shall have no obligation to indemnify or defend against any Claim arising solely as a result of Lessor's gross negligence or willful misconduct.

17. COVENANT OF QUIET ENJOYMENT. So long as no Lessee Default exists, and no event shall have occurred and be continuing which, with the giving of notice or the passage of time or both, would constitute a Lessee Default, neither Lessor nor any party acting or claiming through Lessor, by assignment or otherwise, will disturb Lessee's quiet enjoyment of the Equipment during the Total Term of the related Lease.

18. DISCLAIMERS AND LESSEE WAIVERS. LESSEE LEASES THE EQUIPMENT FROM LESSOR "AS IS, WHERE IS". IT IS SPECIFICALLY UNDERSTOOD AND AGREED THAT (A) EXCEPT AS EXPRESSLY SET FORTH IN SECTION 17, LESSOR MAKES ABSOLUTELY NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY REPRESENTATION OR WARRANTY WITH RESPECT TO THE DESIGN, COMPLIANCE WITH SPECIFICATIONS, QUALITY, OPERATION, OR CONDITION OF ANY EQUIPMENT (OR ANY PART THEREOF), THE MERCHANTABILITY OR FITNESS OF EQUIPMENT FOR A PARTICULAR PURPOSE, OR ISSUES REGARDING PATENT INFRINGEMENT, TITLE AND THE LIKE; (B) LESSOR SHALL NOT BE DEEMED TO HAVE MADE, BE BOUND BY OR LIABLE FOR, ANY REPRESENTATION, WARRANTY OR PROMISE MADE BY THE SUPPLIER OF ANY EQUIPMENT (EVEN IF LESSOR IS AFFILIATED WITH SUCH SUPPLIER); (C) LESSOR SHALL NOT BE LIABLE FOR ANY FAILURE OF ANY EQUIPMENT OR ANY DELAY IN THE DELIVERY OR INSTALLATION THEREOF; (D) LESSEE HAS SELECTED ALL EQUIPMENT WITHOUT LESSOR'S ASSISTANCE; AND (E) LESSOR IS NOT A MANUFACTURER OF ANY EQUIPMENT. IT IS FURTHER AGREED THAT LESSOR SHALL HAVE NO LIABILITY TO LESSEE, LESSEE'S CUSTOMERS, OR ANY THIRD PARTIES FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS MASTER AGREEMENT OR ANY SCHEDULE OR CONCERNING ANY EQUIPMENT, OR FOR ANY DAMAGES BASED ON STRICT OR ABSOLUTE TORT LIABILITY OR LESSOR'S NEGLIGENCE; PROVIDED, HOWEVER, THAT NOTHING IN THIS MASTER AGREEMENT SHALL DEPRIVE LESSEE OF ANY RIGHTS IT MAY HAVE AGAINST ANY PERSON OTHER THAN LESSOR. LESSOR AND LESSEE AGREE THAT THE LEASES SHALL BE GOVERNED BY THE EXPRESS PROVISIONS OF THIS MASTER AGREEMENT AND THE OTHER FUNDAMENTAL AGREEMENTS AND NOT BY THE CONFLICTING PROVISIONS OF ANY OTHERWISE APPLICABLE LAW. ACCORDINGLY, TO THE EXTENT PERMITTED BY APPLICABLE LAW, LESSEE WAIVES ANY RIGHTS AND REMEDIES CONFERRED UPON A LESSEE BY ARTICLE 2A OF THE UCC (INCLUDING, BUT NOT LIMITED TO, LESSEE'S RIGHTS, CLAIMS AND DEFENSES UNDER UCC SECTIONS 2A-303 AND 2A-508 THROUGH 2A-522) AND THOSE RIGHTS NOW OR HEREAFTER CONFERRED BY STATUTE OR OTHERWISE, IN EITHER CASE THAT ARE INCONSISTENT WITH OR THAT WOULD LIMIT OR MODIFY LESSOR'S RIGHTS SET FORTH IN THIS MASTER AGREEMENT.

19. LESSEE WARRANTIES. Lessee represents, warrants and covenants to Lessor and its assignees with respect to each Lease that: (a) Lessee is an agency or department of, or a political subdivision of the state in which it is located; (b) Lessee has the power and authority to enter into each of the Fundamental Agreements; (c) all Fundamental Agreements are legal, valid and binding obligations of Lessee, enforceable against Lessee in accordance with their terms and do not violate or create a default under any instrument or agreement binding on Lessee; (d) there are no pending or threatened actions or proceedings before any court or administrative agency that could reasonably be expected to have a material adverse effect on Lessee or any Fundamental Agreement, unless such actions have been disclosed to Lessor and consented to in writing by Lessor; (e) Lessee shall comply in all material respects with all laws and regulations the violation of which could have a material adverse effect upon the Equipment or Lessee's performance of its obligations under any Fundamental Agreement; (f) each Fundamental Agreement shall be effective against all creditors of Lessee under applicable law, including fraudulent conveyance and bulk transfer laws, and shall raise no presumption of fraud; (g) all financial statements, certificates or summaries relating to Lessee's financial condition, fiscal budget or the assessment and collection of taxes and other related information furnished by Lessee shall be prepared in accordance with generally accepted accounting principles in the United States in effect at that time and shall fairly present Lessee's financial position as of the dates given on such statements; (h) since the date of the most recent annual financial statement, there has been no material adverse change in the financial condition of, or the level of assessment or collection of taxes by, the Lessee; (i) the Equipment, subject to the Lease, is essential to the immediate performance of a governmental or proprietary function by Lessee within the scope of its authority and will be used during the Term of the Lease only by Lessee and only to perform such function; (j) Lessee intends to use the Equipment for the entire Term of the Lease and all Equipment will be used for business purposes only and not for personal, family or household purposes; (k) Lessee has complied fully with all applicable law governing open meetings, public bidding and appropriations required in connection with the Lease and the acquisition of the Equipment; (l) there has been no material change in the budget for Lessee's current Fiscal Period since its adoption; (m) Lessee's obligations to pay Rent and any other amounts due under the Lease constitute a current expense and not a debt of Lessee under applicable state law; (n) no provision of the Lease constitutes a pledge of the tax or general revenues of Lessee; (o) Lessee does not export, re-export, or transfer any Equipment, Software, system software or source code or any direct product thereof to a prohibited destination, or to nationals of proscribed countries wherever located, without prior authorization from the United States government and other applicable governments; (p) Lessee does not use any Equipment, Software or system software or technology, technical data, or technical assistance related thereto or the products thereof in the design, development, or production of nuclear, missile, chemical, or biological weapons or transfer the same to a prohibited destination, or to nationals of proscribed countries wherever located, without prior authorization from the United States and other applicable governments; and (q) Lessee is not an entity designated by the United States government or any other applicable government with which transacting business without the prior consent of such government is prohibited.

20. DEFAULT. Any of the following shall constitute a default by Lessee (a "Lessee Default") under this Master Agreement and all Leases: (a) Lessee fails to pay any Rent payment or any other amount payable to Lessor under this Master Agreement or any Schedule within 10 days after its due date; or (b) Lessee defaults on or breaches any of the other terms and conditions of any Material Agreement, and fails to cure such breach within 10 days after written notice thereof from Lessor; or (c) any representation or warranty made by Lessee in any Material Agreement proves to be incorrect in any material respect when made or reaffirmed; or (d) any change occurs in relation to Lessee's financial condition that, in Lessor's opinion, would have a material adverse effect on Lessee's ability to perform its obligations under this Master Agreement or under any Schedule; or (e) Lessee becomes insolvent or fails generally to pay its debts as they become due; or (f) a proceeding under any bankruptcy, reorganization, arrangement of debt, insolvency or receivership law is filed by or against Lessee (and if such proceeding is involuntary, it is not dismissed

within 60 days after the filing thereof) or Lessee takes any action to authorize any of the foregoing matters; or (g) any letter of credit or guaranty issued in support of a Lease is revoked, breached, canceled or terminated (unless consented to in advance by Lessor); or (h) any Equipment is levied against, seized or attached.

21. REMEDIES. If a Lessee Default occurs, Lessor may, in its sole discretion, exercise one or more of the following remedies: (a) declare all amounts due and to become due during Lessee's current fiscal year under any or all Leases to be immediately due and payable; or (b) terminate this Master Agreement or any Lease; or (c) take possession of, or render unusable, any Equipment wherever the Equipment may be located, without demand or notice and without any court order or other process of law in accordance with Lessee's reasonable security procedures, and no such action shall constitute a termination of any Lease; or (d) require Lessee to deliver the Equipment to a location specified by Lessor; or (e) declare the Stipulated Loss Value for any or all Equipment to be due and payable as liquidated damages for loss of a bargain and not as a penalty and in lieu of any further Rent payments under the applicable Lease or Leases; or (f) proceed by court action to enforce performance by Lessee of any Lease and/or to recover all damages and expenses incurred by Lessor by reason of any Lessee Default; or (g) terminate any other agreement that Lessor may have with Lessee; or (h) exercise any other right or remedy available to Lessor at law or in equity. Also, Lessee shall pay Lessor (i) all costs and expenses that Lessor may incur to maintain, safeguard or preserve the Equipment, and other expenses incurred by Lessor in enforcing any of the terms, conditions or provisions of this Master Agreement (including reasonable legal fees and collection agency costs) and (ii) all costs incurred by Lessor in exercising any of its remedies hereunder (including reasonable legal fees). Upon repossession or surrender of any Equipment, Lessor will lease, sell or otherwise dispose of the Equipment in a commercially reasonable manner, with or without notice and at public or private sale, and apply the net proceeds thereof to the amounts owed to Lessor under this Master Agreement; provided, however, that Lessee will remain liable to Lessor for any deficiency that remains after any sale or lease of such Equipment. Any proceeds of any sale or lease of such Equipment in excess of the amounts owed to Lessor under this Master Agreement will be retained by Lessor. Lessee agrees that with respect to any notice of a sale required by law to be given, 10 days' notice will constitute reasonable notice. With respect to any exercise by Lessor of its right to recover and/or dispose of any Equipment or other Collateral securing Lessee's obligations under any Schedule, Lessee acknowledges and agrees as follows: (i) Lessor shall have no obligation, subject to the requirements of commercial reasonableness, to clean-up or otherwise prepare the Equipment or any other Collateral for disposition, (ii) Lessor may comply with any applicable state or federal law requirements in connection with any disposition of the Equipment or other Collateral, and any actions taken in connection therewith shall not be deemed to have adversely affected the commercial reasonableness of any such disposition, and (iii) Lessor may convey the Equipment and any other Collateral on an "AS IS, WHERE IS" basis, and without limiting the generality of the foregoing, may specifically exclude or disclaim any and all warranties, including any warranty of title or the like with respect to the disposition of the Equipment or other Collateral, and no such conveyance or such exclusion or such disclaimer of any warranty shall be deemed to have adversely affected the commercial reasonableness of any such disposition. These remedies are cumulative of every other right or remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise, and may be enforced concurrently therewith or from time to time.

22. PERFORMANCE OF LESSEE'S OBLIGATIONS. If Lessee fails to perform any of its obligations hereunder, Lessor may perform any act or make any payment that Lessor deems reasonably necessary for the maintenance and preservation of the Equipment and Lessor's interests therein; provided, however, that the performance of any act or payment by Lessor shall not be deemed a waiver of, or release Lessee from, the obligation at issue. All sums so paid by Lessor, together with expenses (including legal fees and costs) incurred by Lessor in connection therewith, shall be paid to Lessor by Lessee immediately upon demand.

23. TRUE LEASE; SECURITY INTEREST; MAXIMUM RATE. Each Lease is intended to be a "Finance Lease" as defined in Article 2A of the UCC, and Lessee hereby authorizes Lessor to file a financing statement to give public notice of Lessor's ownership of the Equipment. The parties' intent that each Lease be a "Finance Lease" within the meaning of Article 2A and the UCC shall have no effect on the characterization of any Lease for accounting purposes, which characterization shall be made by each party independently on the basis of generally accepted accounting principles in the United States in effect at the time. Lessee, by its execution of each Schedule, acknowledges that Lessor has informed it that (a) the identity of Seller is set forth in the applicable Schedule, (b) Lessee is entitled under Article 2A of the UCC to the promises and warranties, including those of any third party, provided to Lessor in connection with, or as a part of, the applicable Purchase Documents, and (c) Lessee may communicate with Seller and receive an accurate and complete statement of the promises and warranties, including any disclaimers and limitations of them or of remedies. If (1) notwithstanding the express intention of Lessor and Lessee to enter into a true lease, any Lease is ever deemed by a court of competent jurisdiction to be a lease intended for security, or (2) Lessor and Lessee enter into a Lease with the intention that it be treated as a lease intended as security by so providing in the applicable Schedule, then to secure payment and performance of Lessee's obligations under this Master Agreement and all Leases, Lessee hereby grants Lessor a purchase money security interest in the related Equipment and in all attachments, accessories, additions, substitutions, products, replacements, rentals and proceeds (including, without limitation, insurance proceeds) thereto as well as a security interest in any other equipment financed pursuant to this Master Agreement or any other agreement between Lessor and Lessee (collectively, the "Collateral"). In any such event, notwithstanding any provisions contained in this Master Agreement or in any Schedule, neither Lessor nor any Assignee shall be entitled to receive, collect or apply as interest any amount in excess of the maximum rate or amount permitted by applicable law. In the event Lessor or any Assignee ever receives, collects or applies as interest any amount in excess of the maximum amount permitted by applicable law, such excess amount shall be applied to the unpaid principal balance and any remaining excess shall be refunded to Lessee. In determining whether the interest paid or payable under any specific contingency exceeds the maximum rate or amount permitted by applicable law, Lessor and Lessee shall, to the maximum extent permitted under applicable law, characterize any non-principal payment as an expense or fee rather than as interest, exclude voluntary prepayments and the effect thereof, and spread the total amount of interest over the entire term of this Master Agreement and all Leases.

24. ASSIGNMENT. Lessor shall have the unqualified right to sell, assign, grant a security interest in or otherwise convey any part of its interest in this Master Agreement, any Lease or any Equipment, in whole or in part, without prior notice to or the consent of Lessee. If any Lease is sold, assigned, or otherwise conveyed, Lessee agrees that Lessor's purchaser, assignee or transferee, as the case may be ("Assignee") shall (a) have the same rights, powers and privileges that Lessor has under the applicable Lease, (b) have the right to receive from Lessee all amounts due under the applicable Lease; and (c) not be required to perform any obligations of Lessor, other than those that are expressly assumed in writing by such Assignee. Lessee agrees to execute such acknowledgements to such assignment as may be reasonably requested by Lessor or the Assignee. Lessee further agrees that, in any action brought by such Assignee against Lessee to enforce Lessor's rights hereunder, Lessee will not assert against such Assignee any set-off, defense or counterclaim that Lessee may have against Lessor or any other person. Unless otherwise specified by Lessor and the Assignee, Lessee shall continue to pay all amounts due under the applicable Lease to Lessor; provided, however, that upon notification from Lessor and the Assignee, Lessee covenants to pay all amounts due under the applicable Lease to such Assignee when due and as directed in such notice. Lessee further agrees that any Assignee may further sell, assign, grant a security interest in or otherwise convey its rights and interests under the applicable Lease with the same force and effect as the assignment described herein. Lessee may not assign, transfer, sell, sublease, pledge or otherwise dispose of this Master Agreement, any Lease, any Equipment or any interest therein.

25. FURTHER ASSURANCES. Lessee agrees to promptly execute and deliver to Lessor such further documents and take such further action as Lessor may require in order to more effectively carry out the intent and purpose of this Master Agreement and any Schedule. Without limiting the generality of the foregoing, Lessee agrees (a) to furnish to Lessor from time to time, its certified financial statements, officer's certificates and appropriate resolutions, opinions of counsel and such other information and documents as Lessor may reasonably request, and (b) to execute and timely deliver to Lessor such documents that Lessor deems necessary to perfect or protect Lessor's security interest in the Collateral or to evidence Lessor's interest in the Equipment. It is also agreed that Lessor or Lessor's agent may file as a financing statement, any lease document (or copy thereof, where permitted by law) or other financing statement that Lessor deems appropriate to perfect or protect Lessor's security interest in the Collateral or to evidence Lessor's interest in the Equipment. Lessee hereby appoints Lessor and any agent of Lessor as Lessee's attorney-in-fact, with full power of substitution in its place and stead, in its name or in the name of Lessor to from time to time in Lessor's sole discretion take any action and to execute any instrument which Lessor may deem necessary or advisable to protect Lessor's interests hereunder. Lessee acknowledges and agrees that such

appointment is coupled with an interest and is irrevocable until the expiration or termination of all Leases and financings and the satisfaction by Lessee of all of its obligations hereunder. Upon demand, Lessee will promptly reimburse Lessor for any filing or recordation fees or expenses (including legal fees and costs) incurred by Lessor in perfecting or protecting its interests in any Collateral. Lessee represents and warrants that Lessee's name as set forth in the signature block below is Lessee's full and accurate legal name and that the information set forth on the first page hereof regarding its organization number, tax identification number and location is true and correct as of the date hereof. Lessee further agrees to provide Lessor advance written notice of any change in the foregoing.

26. TERM OF MASTER AGREEMENT; SURVIVAL. This Master Agreement shall commence and be effective upon the execution hereof by both parties and shall continue in effect until terminated by either party by 30 days prior written notice to the other, provided that the effective date of the termination is after all obligations of Lessee arising hereunder and pursuant to any Schedule have been fully satisfied. Notwithstanding the foregoing, all representations, warranties and covenants made by Lessee hereunder shall survive the termination of this Master Agreement and shall remain in full force and effect. All of Lessor's rights, privileges and indemnities under this Master Agreement or any Lease, to the extent they are fairly attributable to events or conditions occurring or existing on or prior to the expiration or termination of such Lease, shall survive such expiration or termination and be enforceable by Lessor and Lessor's successors and assigns.

27. WAIVER OF JURY TRIAL. LESSEE AND LESSOR HEREBY EXPRESSLY WAIVE ANY RIGHT TO DEMAND A JURY TRIAL WITH RESPECT TO ANY ACTION OR PROCEEDING INSTITUTED BY LESSOR OR LESSEE IN CONNECTION WITH THIS MASTER AGREEMENT OR ANY FUNDAMENTAL AGREEMENT.

28. NOTICES. All notices, requests, demands, waivers and other communications required or permitted to be given under this Master Agreement or any other Fundamental Agreement shall be in writing and shall be deemed to have been received upon receipt if delivered personally or by a nationally recognized overnight courier service, or by confirmed facsimile transmission, or 3 days after deposit in the United States mail, certified, postage prepaid with return receipt requested, addressed as follows (or such other address or fax number as either party shall so notify the other):

If to Lessor:

Hewlett Packard Company

Attn:

Fax

If to Lessee:

Attn: _____ ("Authorized Lessee Representative")

Fax:

29. MISCELLANEOUS

(a) Governing Law. THIS MASTER AGREEMENT AND EACH LEASE SHALL BE GOVERNED BY THE INTERNAL LAWS (AS OPPOSED TO CONFLICTS OF LAW PROVISIONS) OF THE STATE OF EQUIPMENT LOCATION.

(b) Credit Review. Lessee consents to a reasonable credit review by Lessor for each Lease.

(c) Captions and References. The captions contained in this Master Agreement and any Schedule are for convenience only and shall not affect the interpretation of this Master Agreement or any Lease. All references in this Master Agreement to Sections and Exhibits refer to Sections hereof and Exhibits hereto unless otherwise indicated.

(d) Entire Agreement; Amendments. This Master Agreement and all other Fundamental Agreements executed by both Lessor and Lessee constitute the entire agreement between Lessor and Lessee relating to the leasing of the Equipment, and supersede all prior agreements relating thereto, whether written or oral, and may not be amended or modified except in a writing signed by the parties hereto.

(e) No Waiver. Any failure of Lessor to require strict performance by Lessee, or any written waiver by Lessor of any provision hereof, shall not constitute consent or waiver of any other breach of the same or any other provision hereof.

(f) Lessor Affiliates. Lessee understands and agrees that Hewlett-Packard Company or any affiliate or subsidiary thereof may, as lessor, execute Schedules under this Master Agreement, in which event the terms and conditions of the applicable Schedule and this Master Agreement as it relates to the lessor under such Schedule shall be binding upon and shall inure to the benefit of such entity executing such Schedule as lessor, as well as any successors or assigns of such entity. Lessee agrees that Lessor may disclose any information provided by Lessee to Lessor or created by Lessor in the course of administering the Material Agreements to any parent or affiliate of Lessor.

(g) Invalidity. If any provision of this Master Agreement or any Schedule shall be prohibited by or invalid under law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Master Agreement or such Schedule.

(h) Counterparts. This Master Agreement may be executed in counterparts, which collectively shall constitute one document.

(i) Lessor Reliance. Lessor may act in reliance upon any instruction, instrument or signature reasonably believed by Lessor in good faith to be genuine. Lessor may assume that any employee of Lessee who executes any document or gives any written notice, request or instruction has the authority to do so.

30 DEFINITIONS. All capitalized terms used in this Master Agreement have the meanings set forth below or in the Sections of this Master Agreement referred to below:

"Acceptance Certificate" means an Acceptance Certificate in substantially the form of Exhibit B executed by Lessee and delivered to Lessor in accordance with Section 3.

"Acceptance Date" means, as to any Lease, the date Lessee shall have accepted the Equipment subject to such Lease in accordance with Section 3.

"Authorized Lessee Representative" has the meaning specified in Section 28.

"Assignee" means any assignee of all or any portion of Lessor's interest in this Master Agreement, any Schedule or any Equipment, whether such assignee received the assignment of such interest from Lessor or a previous assignee of such interest.

"Casualty Loss" means, with respect to any Equipment, the condemnation, taking, loss, destruction, theft or damage beyond repair of such Equipment.

"Casualty Value" means, as to any Equipment, an amount determined as of the date of the Casualty Loss or Lessee Default in question pursuant to a "Table of Casualty Values" attached to the applicable Schedule or, if no "Table of Casualty Values" is attached to the applicable Schedule, an amount equal to the sum of (i) the present value as of the date of the Casualty Loss or Lessee Default in question (discounted at 5% per annum, compounded monthly) of all Rent payments payable after such date through the scheduled date of expiration of the Then Applicable Term, plus (ii) the present value as of the date of the Casualty Loss or Lessee Default in question (discounted at 5% per annum, compounded monthly, from the scheduled date of expiration of the Then Applicable Term) of an amount determined by multiplying the applicable casualty percentage specified below by the Total Cost of such Equipment. The applicable casualty percentage shall be 35% for Equipment having an Initial Term of less than 24 months; 30% for Equipment having an Initial Term of 24 months or greater, but less than 36 months; 25% for Equipment having an Initial Term of 36 months or greater, but less than 48 months; and 20% for Equipment having an Initial Term of 48 months or greater.

"Claims" means all claims, actions, suits, proceedings, costs, expenses (including, without limitation, court costs, witness fees and attorneys' fees), damages, obligations, judgments, orders, penalties, fines, injuries, liabilities and losses, including, without limitation, actions based on Lessor's strict liability in tort.

"Code" means the Internal Revenue Code of 1986, as amended.

"Collateral" has the meaning specified in Section 23.

“Daily Rent” means, as to any Lease, an amount equal to the per diem Rent payable under the applicable Schedule (calculated on the basis of a 360 day year and 30 day months).

“End-of-Term Notice” means, as to any Lease, a written notice delivered by Lessee to Lessor at least 90 days prior to the end of the Initial Term, any Renewal Term or any optional extension of the Initial Term or any Renewal Term setting forth Lessee’s elections pursuant to Section 4 with respect to the Equipment subject to such Lease. Each End-of-Term Notice shall specify on a line item basis and in the same format as the Equipment is described in the applicable Schedule (or if different, in the applicable Acceptance Certificate) the Units of Equipment to be purchased by Lessee (if any), as to which the Lease is to be renewed (if any) and that are to be returned to Lessor (if any).

“Equipment” has the meaning specified in Section 1.

“Equipment Location” means, as to any Equipment, the address at which such Equipment is located from time to time, as originally specified in the applicable Schedule and as subsequently specified in a notice delivered to Lessor pursuant to Section 12, if applicable.

“Fair Market Value” means the total price that would be paid for any specified Equipment in an arm’s length transaction between an informed and willing buyer (other than a used equipment dealer) under no compulsion to buy and an informed and willing seller under no compulsion to sell. Such total price shall not be reduced by the costs of removing such Equipment from its current location or moving it to a new location.

“Fair Rental Value” means the amount of periodic rent that would be payable for any specified Equipment in an arm’s length transaction between an informed and willing lessee and an informed and willing lessor, neither under compulsion to lease. Such amount shall not be reduced by the costs of removing such Equipment from its current location or moving it to a new location.

“Final Invoice Amount” has the meaning set forth in Section 2(c).

“First Payment Date” means, as to any Lease, the date the first Rent payment with respect to the Initial Term of such Lease is due, as determined pursuant to the terms of the applicable Schedule.

“Fiscal Period” shall mean the fiscal year of Lessee, as it may be more particularly described in a Schedule.

“Fundamental Agreements” means, collectively, this Master Agreement, each Schedule and Acceptance Certificate and all other related instruments and documents.

“Hardware” means items of tangible equipment and other property.

“Initial Term” means, as to any Lease, the initial term thereof as specified in the related Schedule.

“Lease” has the meaning specified in Section 2(a).

“Lessee” has the meaning specified in the preamble hereof.

“Lessee Default” has the meaning specified in Section 20.

“Lessor” has the meaning specified in the preamble hereof.

“License Agreement” means any license agreement or other document granting the purchaser the right to use Software or any technical information, confidential business information or other documentation relating to Hardware or Software, as amended, modified or supplemented by any other agreement between the licensor and Lessor.

“Master Agreement” has the meaning specified in the preamble hereof.

“Material Agreements” means, collectively, all Fundamental Agreements, all other material agreements by and between Lessor and Lessee, and any application for credit, financial statement, or financial data required to be provided by Lessee in connection with any Lease.

“Mobile PC Equipment” has the meaning specified in Section 12 hereof.

“Non-Appropriation” has the meaning specified in Section 7.

“Optional Additions” has the meaning specified in Section 11.

“PC Equipment” means, collectively, personal computers (e.g., workstations, desktops and notebooks) and related items of peripheral equipment (e.g., monitors, printers and docking stations).

“Purchase Documents” means, as to any Equipment, any purchase order, contract, bill of sale, License Agreement, invoice and/or other documents that Lessee has, at any time, approved, agreed to be bound by or entered into with any Supplier of such Equipment relating to the purchase, ownership, use or warranty of such Equipment.

“Renewal Agreement” has the meaning specified in Section 4.

“Renewal Term” has the meaning specified in Section 4.

“Rent” has the meaning specified in Section 5.

“Schedule” means, unless the context shall otherwise require a Schedule executed by Lessor and Lessee pursuant to Section 2(a).

“Seller” means, as to any Equipment, the seller of such Equipment as specified in the applicable Schedule.

“Software” means copies of computer software programs owned or licensed by Lessor, and any disks, CDs, or other media on which such programs are stored or written.

“State” means any of the states of the United States, its territories and possessions.

“Stipulated Loss Value” means, as to any Equipment, an amount equal to the sum of (a) all Rent and other amounts due and owing with respect to such Equipment as of the date of payment of such amount, plus (b) the Casualty Value of such Equipment.

“Substitute Equipment” means, as to any item of Hardware or Software subject to a Lease, a substantially equivalent or better item of Hardware or Software having equal or greater capabilities and equal or greater Fair Market Value manufactured or licensed by the same manufacturer or licensor as such item of Hardware or Software subject to a Lease. The determination of whether any item of Equipment is substantially equivalent or better than an item of Equipment subject to a Lease shall be based on all relevant facts and circumstances, but shall minimally require, in the case of a computer, that each of processor, hard-drive, random access memory and CD ROM drive, if applicable, be equivalent or better.

“Supplier” means as to any Equipment, the Seller and the manufacturer or licensor of such Equipment collectively, or where the context requires, any of them. In certain Leases, the Supplier may be Lessor.

“System Software” means an item of Software that is pre-loaded on an item of Hardware purchased by Lessor for lease hereunder for which the relevant Purchase Documents specify no purchase price separate from the aggregate purchase price specified for such items of Hardware and Software.

“Taxes” means all license and registration fees and all taxes (local, state and federal), fees, levies, imposts, duties, assessments, charges and withholding of any nature whatsoever, however designated (including, without limitation, any value added, transfer, sales, use, gross receipts, business, occupation, excise, personal property, real property, stamp or other taxes) other than taxes measured by Lessor’s income.

“Term” means the term thereof as specified in the related Schedule.

“Then Applicable Term” means, as to any Lease, the term of the Lease in effect at the time of determination, whether it be the Initial Term, any Renewal Term or any optional or other automatic extension of the Initial Term or any Renewal Term pursuant to Section 4.

“Total Cost” means as to any Lease, the total acquisition cost to Lessor of the Equipment subject to such Lease as set forth in the applicable Purchase Documents, including related delivery, installation, taxes and other charges which Lessor has agreed to pay and treat as a portion of such acquisition cost, if any.

“Total Term” means, as to any Lease, the aggregate term of such Lease, including the Initial Term, any Renewal Term and any optional or other automatic extension of the Initial Term or any Renewal Term pursuant to Section 4.

“UCC” means the Uniform Commercial Code as enacted and in effect in any applicable jurisdiction.

“Unit of Equipment” means, as to the Equipment leased pursuant to any Schedule (a) each individual item of PC Equipment leased pursuant to such Schedule, and (b) all Equipment taken as a whole leased pursuant to such Schedule other than PC Equipment taken as a whole.

IN WITNESS WHEREOF, LESSEE AND LESSOR HAVE EXECUTED THIS MASTER AGREEMENT ON THE DATES SPECIFIED BELOW.

LESSEE:

By: _____

Name and Title

Date

LESSOR:

HEWLETT-PACKARD COMPANY

By: _____

Name and Title

Date



to Master Agreement

Exhibit B

Master Agreement Number _____
Schedule Number _____

**STATE AND LOCAL GOVERNMENT MASTER OPERATING LEASE AGREEMENT
ACCEPTANCE CERTIFICATE**

Hewlett-Packard Company ("Lessor") and _____, an agency, department or political subdivision of the State of _____ ("Lessee") are parties to the State and Local Government Master Operating Lease Agreement (the "Master Agreement") and Schedule under such Master Agreement (the "Schedule") identified by the Master Agreement Number and Schedule Number, respectively, specified above. The Master Agreement and Schedule together comprise a separate Lease, that is being accepted and commenced pursuant to this Acceptance Certificate. All capitalized terms used in this Acceptance Certificate without definition have the meanings ascribed to them in the Master Agreement.

1. LEASE ACCEPTANCE. Lessee hereby acknowledges that the Equipment described in Section 1 of the Schedule, or if different, the Equipment described in the attached invoice or other attachment hereto, has been delivered to the Equipment Location specified below, inspected by Lessee and found to be in good operating order and condition, and has been unconditionally and irrevocably accepted by Lessee under the Lease evidenced by the Master Agreement and the Schedule as of the Acceptance Date set forth below. Lessee authorizes Lessor to adjust the Rent payments on the Schedule to reflect the Final Invoice Amount set forth on the attached invoice(s) if such amount is different than the Total Cost on the Schedule.

2. LESSEE ACKNOWLEDGEMENTS. Lessee hereby agrees to faithfully perform all of its obligations under the Master Agreement and the Schedule and reaffirms, as of the date hereof, its representations and warranties as set forth in the Master Agreement. Lessee hereby acknowledges its agreement to pay Lessor Rent payments, as set forth in the Schedule, plus any applicable taxes, together with all other costs, expenses and charges whatsoever which Lessee is required to pay pursuant to the Master Agreement and the Schedule, in each instance at the times, in the manner and under the terms and conditions set forth in the Master Agreement and the Schedule, respectively.

3. EQUIPMENT LOCATION. The Equipment has been installed and is located at the following Equipment Location:

4. REPRESENTATIONS AND WARRANTIES. Lessee hereby represents and warrants that on and as of the date hereof each of the representations and warranties made by Lessee in the Master Agreement are true, correct and complete.

[LESSEE]

By: _____

Name and Title

Acceptance Date: _____



HP Appendix D— Professional Development Partners and Programs

Proposal Reference: Section 10 Professional Development

The following organizations have teamed with ENA and HP to provide their best professional development offerings to support the MLTI. The professional development plan leverages the skills and experience of each of the professional development partners. Each partner contributes a unique blend of educator, leadership and technology trainings delivered in a broad variety of modes that together meet and exceed the professional development requirements of the MLTI RFP as well as address the most difficult challenges identified.

Detailed information on each partner's professional development offerings is provided below.



Partners in Learning Vision

Every child deserves a great education - Microsoft Partners in Learning can help.

We believe that education can change the world.

We believe that education is the single most important investment in the future of individuals, communities, nations, and the world - that it is vital to sustainable social and economic success. It is also a fundamental human right. The reality is that education, globally, faces a crisis; a crisis of resources, of time, and of support. Governments need help. School leaders need help. Educators need help. Students need help.

That's where Microsoft Partners in Learning can lend a hand. We help educators and school leaders connect, collaborate, create, and share so that students can realize their greatest potential. We have the tools and the technology to help educators do what they do best: teaching kids and growing young minds. Microsoft Partners in Learning is a 10-year, almost 500 million dollar global initiative aimed at improving teaching and learning. Since 2003, we've led the way in partnering with educators, helping nearly 8 million educators and reaching more than 190 million students in 114 countries in our first 7 years alone.

We believe that technology is simply a tool that when used appropriately in an educational context can help improve teaching and learning. But technology is only one piece of a larger solution supported by peer coaching, professional development for school leaders and educators,



Education Networks of America

and the innovations in teaching and learning being led by educators on the ground, every day. Based on our Innovative Teaching and Learning (ITL) Research <http://www.itlresearch.com/>

As similar to the TPACK Framework, our global research has discovered many important findings around the maximum use of innovative teaching and learning.

Who?

ITL Research is the product of multinational research collaboration, with a design that is both global and local in scope. ITL's research network is led by SRI International, the organization responsible for research design, coordination, and global analysis. In each participating country, a leading research organization adapts common designs to local contexts and conducts local data collection, analysis, and reporting. The program is sponsored by Microsoft Partners in Learning in partnership with a governmental agency or policy organization in each country; in some countries these partners also fund the research. ITL Research is globally coordinated by Langworthy Research and benefits from the support of an advisory team of international experts.

What?

ITL Research focuses on teaching practices that have been shown to have strong relationships with 21st century learning outcomes, with a model that draws extensively from leading global research and frameworks (e.g., Law et al., 2008; OECD, 2006; UNESCO, 2008; Partnership for 21st Century Skills, 2004; Government of South Australia, 2008; ISTE, 2007, 2008). As shown in Figure 1, “innovative teaching” in this research refers to three categories of practices: **Figure 1: Innovative Teaching Practices and Students' 21st Century Skills**

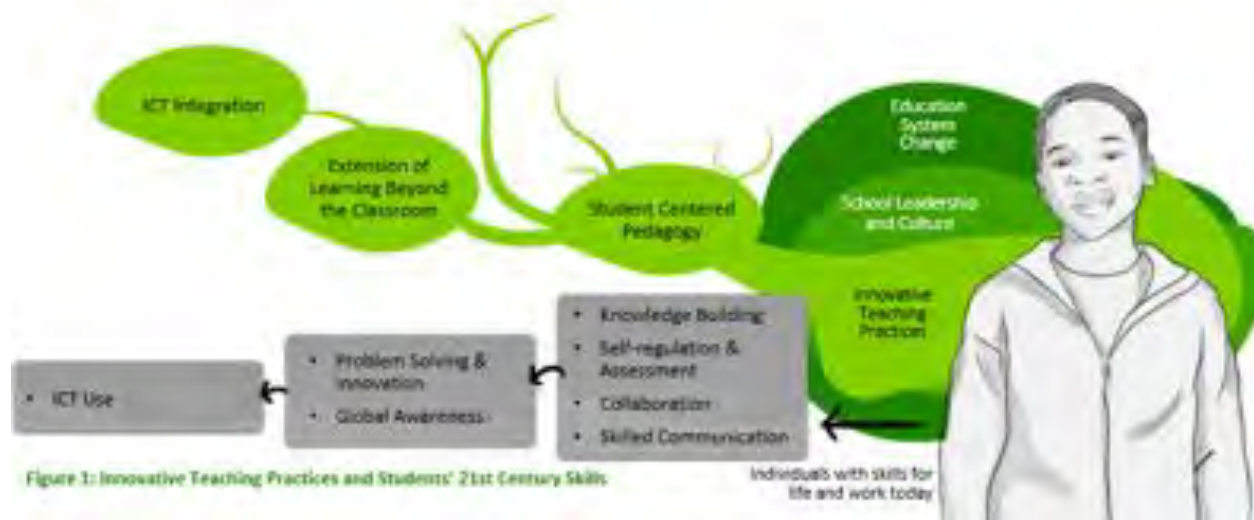


Figure 1: Innovative Teaching Practices and Students' 21st Century Skills

Individuals with skills for life and work today

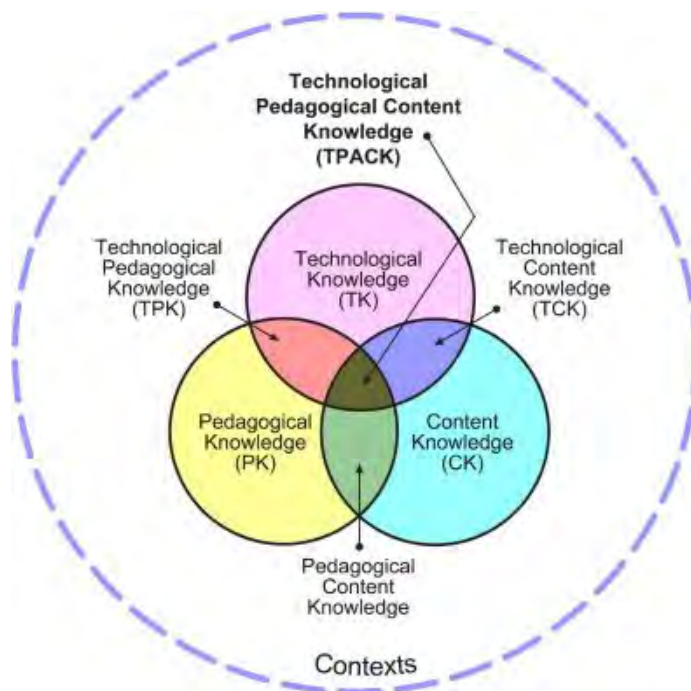


Education Networks of America

- Student-centered pedagogies that promote personalized and powerful learning for students;
- Extending learning beyond the classroom in ways most relevant to knowledge-building and problem-solving in today's world; and
- Technology integration into pedagogy in ways that support learning goals. It is important to note that Technology use is not a goal in itself, but a tool to broaden and deepen learning opportunities. Figure 1 also shows the specific elements that comprise "students' 21st century skills" in the ITL model.

Key Findings from ITL Research in 2011

- ✓ Innovative teaching supports students' development of the skills that will help them thrive in future life and work.
- ✓ However, students' opportunities to develop these skills are typically scarce and uneven, both within and across the sample of schools in the study (across all countries).
- ✓ While ICT use in teaching is becoming more common, ICT use by students in their learning is still an exception in many of these schools.
- ✓ Innovative teaching practices are more likely to flourish when particular supportive conditions are in place. These conditions include:
- ✓ Teacher collaboration that focuses on peer support and the sharing of teaching practices
- ✓ Professional development that involves the active and direct engagement of teachers, particularly in practicing and researching new teaching methods
- ✓ A school culture that offers a common vision of innovation as well as consistent support that encourages new types of teaching
- ✓ While we saw examples of innovative teaching practices in the classes we visited, a coherent and integrated set of conditions to support the adoption of innovative teaching was lacking in most of the schools and all of the systems in our sample.



TPACK has similar findings as excerpted from their website and reference in the RFP.

- *“At the heart of the TPACK framework, is the complex interplay of three primary forms of knowledge: Content (CK), Pedagogy (PK), and Technology (TK). The TPACK approach goes beyond seeing these three knowledge bases in isolation. TPACK*



also emphasizes the new kinds of knowledge that lie at the intersections between them, representing four more knowledge bases teachers applicable to teaching with technology: Pedagogical Content Knowledge (PCK), Technological Content Knowledge (TCK), Technological Pedagogical Knowledge (TPK), and the intersection of all three circles, Technological Pedagogical Content Knowledge (TPACK).

- *Effective technology integration for pedagogy around specific subject matter requires developing sensitivity to the dynamic, transactional relationship between these components of knowledge situated in unique contexts. Individual teachers, grade-level, school-specific factors, demographics, culture, and other factors ensure that every situation is unique, and no single combination of content, technology, and pedagogy will apply for every teacher, every course, or every view of teaching.”*

In essence, this confirms the TPACK model and the ITL both agree that it is critical to blend the technology, pedagogy and the content for an effective teaching and learning model. It is through this approach that we are offering several methods and assets to maximize the potential creating an effective environment.

Additionally, we have worked closely with Dr. Punya Mishra through our Partners in Learning program and have embodied many of our programs and offerings with this type of framework in consideration. He is quoted below:

“The TPACK framework has increasingly been a crucial part of the efforts of the broader Microsoft Partners in Learning initiatives. I have been part of the ongoing conversations regarding this. Most specifically, the influence of the TPACK framework can be seen in the Teacher Education Initiative (TIE). I have been a key member of this project which has involved establishing a series of professional development workshop modules for several content areas, developed in collaboration with some of the top teacher educators in the nation. The TPACK framework is the foundation on which these modules are constructed. This emphasis and understanding of the importance of thinking of content, pedagogy and technology in coordination has significant promise in meeting the needs of developing the next generation of teachers and teacher educators who can meet the demands of 21st century learning.”

Dr. Punya Mishra, Professor and Director
Master's Program in Educational Technology, College of Education
Michigan State University

Summary of Microsoft Professional Development Programs and Assets

Through our investments globally, we have created several programs that encourage and implement professional development for teachers, administrators, and principals to provide the most impactful teaching and learning environment within schools.



Microsoft, in partnership with HP and ENA, has solutions which help schools, districts and states:

- Support school leaders and educators with a broad-range of research-based and globally validated professional development solutions
- Assess and measure impact of professional development over time - - at the system, school, and individual educator level
- Builds capacity within districts and schools so that professional development becomes continuous and sustainable long-term
- Supports educators and school leaders through a global network providing inspiration and recognition for their learning achievements and the impact they have on students

Microsoft Innovative Educator Teacher Professional Development Program

The [Microsoft Innovative Educator \(MIE\) Program](#) is Microsoft's flagship professional development program that has trained educators across the United States for over three years reaching over 200,000 teachers with a scalable, training model focused on relevant, technology integration for all grade levels.

Project-based Learning & Technology Integration

The MIE Program is focused on guiding teachers and teacher leaders to effectively integrating technology in relevant ways in the classroom taking full advantage of many tools they already have. The professional development program is designed around the concepts of project-based learning integrating technology that most teachers have some familiarity with (e.g., Microsoft Office) enabling them to get more out of the tools they have, while exploring many free products that Microsoft makes available for teachers and students.

Customized Delivery Formats

The foundational format of the MIE Program is a 2-day, in-person, train-the-trainer program that delivers hands-on technology integration training embedded in a project-based pedagogical approach. All of the training has been modularized so it can be delivered in shorter sessions (e.g., 30 mins to 1 hr. in-service sessions) as well as via webinar or podcast.

The complete curriculum is easily customizable based on the skill levels of the teachers and is provided in a copyright-free Microsoft OneNote Notebook enabling further customization based on the teachers being trained and can be delivered in-person and through webinars.

A typical 2-day workshop format would focus on hands-on learning across these products and topics:

- Microsoft Office & Office 365 – desktop and cloud-based
- Microsoft OneNote – the ideal digital notebook for 1:1 environments



- Project-based Learning and Technology Integration
- Free Tools for Teachers & Students – movie making, photo creativity tools and much more
- Tips & Tricks for Using Microsoft Office & Windows in the Classroom
- Gaming & Learning in the Classroom with Kinect
- Microsoft Partners in Learning Network – Microsoft’s free online community for educators include lesson plans, how-to’s, free software, discussions groups, and online PD

Training to Support 1:1 Environments

A core element of the MIE training is focused on use of Microsoft OneNote. OneNote, part of Microsoft Office, is the ultimate digital notebook and the ideal application for 1:1 environments. OneNote is designed for tablet, PC, cloud and mobile environments, enabling students and teachers to organize notes, video, photos and voice in personal digital notebooks accessible on multiple devices and in the cloud. OneNote is embedded into all aspects of the Microsoft Innovative Educator training, and should be a fundamental tool when considering 1:1 deployments.

In addition to in-person delivery of teacher professional development, also available is a series of free e-learning courses through the Partners in Learning Network. The Teaching with Technology e-learning course is a series of self-paced online learning courses aligned to UNESCO ICT Competency Framework for Teachers and ISTE NETS for Teachers. These online learning courses are designed to be both self-serve as well as facilitated in a blended learning environment, all accessible through the Microsoft [Partners in Learning Network](#).

Microsoft Innovative Educator Teacher Certificates

Any educator that completes the Microsoft Innovative Educator Program earns a MIE Certificate and has the opportunities to earn additional badges as they complete subsequent training, encouraging ongoing professional learning with documentation noting completion and achievement. The certificates can be used to track, monitor and acknowledge an educator’s progress.

Online Resources and Support through the Partners in Learning Network

MIE Trainers (teacher leaders who have completed the 2-day MIE training), have access to a special online community of MIE trainers where best training practices are shared amongst teacher trainers to encourage and share creative and effective training practices.

All teachers have access to the [Microsoft Partners in Learning Network](#), which is Microsoft’s global community of over 4.6 million educators, who are actively sharing lesson plans, how-to



tutorials and participating in discussion groups that support the products and approaches outlined in the Microsoft Innovative Educator Program.

For more information on the Microsoft Innovative Educator (MIE) Program:

- Program Overview, sample agenda and a short video:
www.microsoft.com/innovativeeducator
- MIE Professional Development Community on the Partners in Learning Network:
<http://bit.ly/MIEcomm>

Windows in the Classroom

This three hour seminar will be added to the MIE professional development workshop extending the workshop to 3 days. This seminar will help you explore the tools and technologies available to help educators teach 21st century skills and optimize the classroom for advanced student achievement. It's a great starting point for any school considering a 1-to-1 learning program, and it allows you to see the diversity of Microsoft software and devices applied to learning.

The seminar will:

- Include rich curriculum samples and global examples of best practices that demonstrate how technology can enhance teaching, learning, and assessment for students.
- Help you understand how technology and devices enable consumption, creation, and collaboration for students, educators, and parents.
- Demonstrate how different devices can bring learning to life in a range of scenarios.
- Show how students can continue learning where they left off – at home, in the library, or at the park.
- Illuminate how students can organize their learning, take notes, and become highly efficient in the way they study.
- Demonstrate free tools that spark imagination and inspire learning and show you where to get them for your school and classrooms.

Agenda

- Introduction to Windows 8
- Exploring the Innovative Teaching and Learning Research
- Supporting Community and Collaboration through the Partners in Learning Network
- The Ultimate Collaboration and Learning Tool for the Classroom – OneNote
- The world is your classroom – Using Lync to connect your students to the wider world
- Share, and Share again using Skydrive and Office 365
- New ways to learn – Kinect in the Classroom
- Education Application that will help the educator support student learning – Explore the applications in Microsoft Learning Suite including; Microsoft Math, World Wide Telescope, Photosynth, Community Clips, Auto Collage and many other free tools.



- How will you use these tools in your classroom? Questions for the group and for the presenter

To Learn more about Windows in the Classroom go to
<http://www.microsoft.com/education/ww/leadership/Pages/Windows-in-the-Classroom.aspx>

[Teaching with Technology \(technology + pedagogy\)](#)

The Microsoft Teaching with Technology Online Learning curriculum helps educators move beyond learning technology tools to develop a deeper understanding of how technology integration can enhance the teaching and learning experience, enable 21st century skill acquisition in students, and save them time. Teaching with Technology offers a self-assessment to identify learning gaps, 36 hours of eLearning content, summative assessments, a range of consolidation learning activities and tutorials as well as an optional valid and reliable assessment of educator competencies via the Microsoft Certified Educator Exam. [Explore](#) Teaching with Technology.

[Digital Literacy/Productivity Application Specialist](#)

- This curriculum, available online or offline, helps educators develop a fundamental understanding of computers and productivity software. The courses help them learn the essential skills to begin computing with confidence. The **Standard curriculum** features five courses that cover computer basics; using the internet and productivity programs; security and privacy; and digital lifestyles. These five courses are available in three versions that use examples and screenshots from different versions of Windows and Microsoft Office. The **Advanced curriculum** features four courses that cover creating an e-mail account, creating a great resume, searching for content on the World Wide Web and social networking. This program is offered online or offline and can be administered across the state. This program allows for individuals who may be new to using technology and the internet.

Partners in Learning Network www.pil-network.com

Microsoft is working to bring technology skills and its benefits to all. We share the ultimate goal of all stakeholders—use technology to help improve education and the learning experience, create opportunity, and raise living standards for people around the world.

The potential of education being the equalizer of social disparity might never be greater – economic imperatives and demographic realities make change more necessary, and technology makes change more accessible and scalable.

Given an overall market size of approximately 4M institutions, 77M educators, and 1.4B students, the international ICT (Information Communication Technology) standards which prepare K-12 students for greater success in their professional careers has resulted in an



increased global focus on education, a top prioritization by Microsoft, and competitive pressure in the education market.

To this end, Microsoft's Partners in Learning is a global initiative with the objective of improving learning experiences through ICT and to help teachers and school leaders enable students to build 21st century skills. The Partners in Learning Network (PiLN) serves as the focal point for Partners in Learning; it is the public face, it creates the first impression for most educators and school leaders when engaging with Microsoft in education, and it helps connect the dots of the programmatic offerings for Microsoft.

In order to create the foundation needed to effectively engage and help educators build capacity by incorporating ICT skills into their teaching and learning practices the PiLN has evolved into a more agile, flexible, and reliable cloud-based architecture which allows an ability to better serve our audience by reacting quicker to user feedback, proactively pushing feature enhancements, and the return on the investment for our customer.

The newly revamped network will drive value for educators and school leaders by focusing on three fundamental themes:

1. Enable educators to find resources that can be immediately used in the classroom, such as: access to software, tools, lesson plans, and other user-generated content.
2. Provide an opportunity to connect and collaborate with other educators, school leaders, and their classrooms by building global communities of innovating teaching practices.
3. Support educators and school leaders in acquiring the skills needed to use ICT teaching and learning practices through a meaningful set of professional development content and curriculum.

We believe the Partners in Learning Network is well positioned to meet the professional development needs of the participating states' educators and is a robust online solution which can easily scale to supporting educators and schools state wide.

The PiLN will serve as the primary vehicle for supporting NASPO MSLTI Participant States' educator and school leader audience and will be the online engine used to serve this community by providing value on five key elements:

- 1 **Better Access to Microsoft Technology**—Microsoft has a wide array of products for educators to incorporate into their learning activities for students; the PiLN has consolidated over 30 free education relevant products and will make them available for NASPO MSLTI Participant States' educators.
- 2 **Support Innovative Approaches to Integrating Technologies in the Classroom**—The PiLN will support teacher's efforts to harness the use of technology as an effective



teaching and learning tool by providing access to product tutorials and user generated learning activities contextualized for the classroom.

- 3 **Helping Close the Professional Development Gap**—The support of competency-based professional development models via our Teaching with Technology curriculum for educators will address their professional development needs in helping understand how pedagogy and technology interoperate. This online curriculum is aligned to the global standards of the UNESCO ICT Competency Framework for Teachers.
- 4 **Offer Education Leaders the Tools to Envision Implement and Manage Change-** The PiLN provides access to self-assessment research system that helps educators and school leaders understand and measure innovative teaching practices that develop the 21st C skills students need via The [Partners in Learning School Research](#).
- 5 **Creating Communities of Practice**—The PiLN serves as the backbone for enabling members to have a ‘voice’ on the Network, share best practices and connect with other ‘like-minded’ individuals. Private groups will be created to support the NASPO MSLTI Participant States’ ability to communicate directly with their educators, post resources, and share news and announcements. Educators from the NASPO MSLTI Participant States will also have access to the global community of PiL members where communities of practice can be established on a world-wide basis.

[Partners in Learning School Research – www.pilsr.com](http://www.pilsr.com)

Partners in Learning School Research is a free, online survey sent out by a school administrator to school leaders and teachers to gain their individual self-assessments of innovative teaching practices in their school and in their own classes. Everyone is encouraged to participate (it only takes fifteen minutes), and all responses are anonymous and confidential. Once the surveys have been taken, your school receives a data-driven, action-oriented report with concrete recommendations for how your school can develop and expand its innovative teaching and learning practices. The surveys can be used to measure progress by establishing a baseline of your school's current teaching practices using the initial survey results, and then conducting subsequent research every year thereafter to assess how those practices have evolved.



Subject Matter Experts

Professor Chris Dede Harvard University



Full Professor, Harvard University

I am the Timothy E. Wirth Professor in Learning Technologies at Harvard's Graduate School of Education. From 2001-2004, I also served as Chair of the Learning & Teaching department in the School. My research interests span emerging technologies for learning, educational policy, and leadership in educational innovation. My funded research includes five grants from NSF and the Gates Foundation to design and study immersive simulations, transformed social interactions, and online professional development. I have served as a member of the National Academy of Sciences Committee on Foundations of Educational and Psychological Assessment, a member of the U.S. Department of Education's Expert Panel on Technology, an International Steering Committee member for the Second International Technology in Education Study, and a member of the 2010 National Educational Technology Plan Technical Working Group I co-edited two recently published volumes: *Scaling Up Success: Lessons Learned from Technology-based Educational Improvement*, and *Online Professional Development for Teachers: Emerging Models and Methods*. My latest book, *Digital Teaching Platforms*, will be published by Teachers College Press in 2012. In 2007, I was honored by Harvard University as an outstanding teacher, and in 2011 I was named a Fellow of the American Educational Research Association.

Professional Experience

- 2000-present: Timothy E. Wirth Professor in Learning Technologies, Harvard University
- 1991-2000: Full Professor, George Mason University
- 1996-1997: Senior Program Director, National Science Foundation (on leave from GMU)
- 1981-1990: Full Professor, University of Houston—Clear Lake
- 1984-1990: Visiting Scientist, Johnson Space Center, NASA
- 1984: Visiting Scientist, Computer Science Lab, MIT (Sabbatical)
- 1979-80: Policy Fellow, Office of the Director, National Institute of Education (via the Institute for Educational Leadership)



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1974-81: Associate and Assistant Professor, UH—Clear Lake

1972-74: Assistant Professor, University of Massachusetts

Education Ed.D. University of Massachusetts, 1972
science education
B.S. California Institute of Technology, 1969
double major: chemistry and English

Representative Government Activities

National Academy of Sciences

invited Paper and Talk, Workshop on Games and Simulations in Science Education
co-chair, Committee on Enhancing Professional Development for Teachers: Potential Uses of Information Technology; Workshop on Online Teacher Professional Development
member, Committee on Psychological and Educational Foundations of Assessment
presenter, Workshop on the Roles of Information Technology in Improving Teaching and Learning in Undergraduate Science, Mathematics, Engineering, and Technology Education
Keynote, Board on Science Education Workshop on Information and Communications Technology Fluency

National Science Foundation

Served for one year (on sabbatical) as Senior Program Director in the National Science Foundation's Directorate of Education and Human Resources. Responsible for initiating and directing \$25M funding program, "Research on Education, Policy, and Practice"
Member, Committee of Visitors, CAREER program
Participant, NSF Cyberlearning Workshop
Speaker, NSF/HER/REC Workshop on strategic planning for communication activities
Participant, Computer Research Association Cyberlearning Workshop on Modeling, Simulation, and Gaming Technologies Applied to Learning
Invited poster session, National Workshop on K-12 STEM Education (sponsored by NSF/NSA)
Panelist, NSF Centers for Learning & Teaching Reverse Site Visit 05
Chair, Committee of Visitors, ISE program
Invited talks to NSF program officers on scalability of educational innovations and on the relationship of 21st century skills initiatives to STEM
Invited plenary talks to NSF ITEST Principal Investigators Meeting 09



Board of Advisors, CADRE DRK-12 Technical Support Project

U.S. Congress

Testified to the Science Committee, U.S. House of Representatives, May, 2001

Testified to the Congressional Web-based Education Commission, June, 2000

U.S. Department of Education

Technical Working Group, Evidence of Effectiveness Initiative

Briefing on Educational Technology, Secretary Duncan's Leadership Team

Technical Working Group, National Education Technology Plan 2009

Invited Panelist, US. Dept of Education Policy Briefing on Technology

Organizer, Workshop on Reinventing High Schools for the 21st Century

Member, Technology Expert Panel

Advisory Board, Designing a National Study of the Effectiveness of Educational Technology

Advisory Board, Ready to Learn Television program

U.S. Department of Defense

Expert Panelist on the comprehensive technology plan for the Department of Defense
Education Activities

Invited Keynote, Educational Simulations and Serious Games Symposium, Defense
Intelligence Analysis Center

U.S. Agency for International Development

Expert Panelist on designing and studying applications of educational technology for
developing countries

Massachusetts State Government

Member, Task Force on 21st Century Skills

Testimony, Special Committee on Educational Technology

Representative Corporate Activities

Wireless Generation: Consulting

The Capital Group: Invited briefing

Intel: External Research Advisory Committee

Qualcomm: Co-Chair Wireless EdTech Conference 2010, 2011; consultant



ETS: Standing Committee, NAEP Technology and Engineering Literacy Assessment

Lenovo: Advisory Board, Education Research Initiative

Sony: Invited presentation to Executive Advisory Board

Pearson: workshop on instructional design

Laureate: presenter, consultant

aal: Keynote, Users Conference

Mitre: Presenter, Interagency Distance Learning Advisory Council

Microsoft: Advisor for the U.S. Partners in Learning Mid-Tier Grant Program

Dell: Speaker at Superintendents Forum

IBM: Consultant on New Models of Management Education;
Invited Talk at IBM Research Center: Education Group



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Punya Mishra, Ph.D.

*Professor & Director Masters Program in Educational Technology
Department of Counseling, Educational Psychology & Special Education
College of Education, Michigan State University*



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Dr. Punya Mishra is professor of *Educational Technology & Educational Psychology* at *Michigan State University* where he directs the *Master of Arts in Educational Technology*, Program. He is former chair of the *Innovation and Technology Committee* of the *American Association of Colleges of Teacher Education*, as well as co-chair of the 2011 annual conference of the *Society of Information Technology in Teacher Education*. He has an undergraduate degree in Electrical Engineering (from *Birla Institute of Technology & Science, Pilani*), Masters degrees in *Visual Communication* (from the Industrial Design Center, *Indian Institute of Technology, Mumbai*), and Mass Communications (from *Miami University, Oxford Ohio*), and a Ph.D. in Educational Psychology (from the *University of Illinois at Urbana-Champaign*).

His research has focused on the role of technology in teaching, teacher knowledge, creativity and design. The *Technological Pedagogical Content Knowledge (TPACK) Framework* for teacher knowledge for technology integration (co-developed with Dr. Matthew J. Koehler), has been described as being “the most significant advancement in the area of technology integration in the past 25 years.” He has received around \$5 million in grants from national and international agencies. He has published over 30 peer-reviewed research journals and book chapters, and has edited two books.

Dr. Mishra teaches courses at both the masters and doctoral levels at the *College of Education* in the area of educational technology, design, media. He has also taught courses and conducted workshops on creativity, innovation and design for the MBA program at the *Indian School of Business* (Hyderabad) as well as the Executive MBA program at the *Broad School of Business*, Michigan State University. Dr. Mishra has received many accolades for his teaching, including a *Lilly Faculty Fellowship* (2001), the *MSU Teacher Scholar Award* (2004), the College of Education’s *Teaching Excellence Award* (2006), and the *AT&T-MSU award for Instructional Technology* (2008).



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Dr. Mishra is also an accomplished visual artist and poet. His work has been featured in international design and puzzle magazines and websites. You can find out more about him by going to <http://punyamishra.com/>

Education

- 1998: *Ph.D. in Educational Psychology*
University of Illinois at Urbana-Champaign
- 1992: *Master of Arts in Mass Communication*
Miami University, Oxford OH
GPA : 4.0/4.0
- 1990: *Master of Design: Visual Communication*
Industrial Design Center, Indian Institute of Technology, Bombay
- 1998: *Bachelor of Engineering: Electrical & Electronics Engineering*
Birla Institute of Technology & Science, Pilani

PROFESSIONAL EXPERIENCE

Faculty

- 2010- Professor, Technology & Education
College of Education, Michigan State University
- 2005-10 Associate Professor, Technology & Education
College of Education, Michigan State University
- 1998-05 Assistant Professor, Technology and Education
College of Education, Michigan State University
- 1990-91 Instructor, Masters program in Visual Communications
Industrial Design Center, Indian Institute of Technology, Bombay

KEY PUBLICATIONS

Books

- Mishra, P. (1990) *A 2 Z: A dictionary of design*. Published by The Industrial Design Center Press: Bombay, India
- Mishra, P., Koehler, M.J., & Zhao, Y. (Eds.) (2007). *Faculty development by design: Integrating technology in higher education*. Information Age Publishing, Greenwich, CT.



Education Networks of America

Select list of journal articles

- Mishra, P., Spiro, R. J. & Feltovich, P. (1996) Technology, representation & cognition. In von Oostendorp, H. (Ed.) *Cognitive aspects of electronic text processing*. (pp. 287-306). Norwood, NJ: Ablex Publishing Corporation.
- Mishra, P. (1999/2004). The role of abstraction in scientific illustration: Implications for pedagogy. *Journal of Visual Literacy*. 19(2), 139-158. To be reprinted in C. Handa (Ed.). *Visual rhetoric in a digital world: A critical sourcebook*. (pp. 177-194). Boston, MA: Bedford/St. Martin's Press.
- Mishra, P., Yong, Z., & Tan, S. (1999). From concept to software: Developing a framework for understanding the process of software design. *Journal of Computing in Education*. 32(3). 220-238.
- Mishra, P. & Brewer, W. F. (2003) Theories as a form of mental representation and their role in the recall of text information. *Contemporary Educational Psychology*, 28, p.277-303.
- Mishra, P., Hershey, K. (2004). Etiquette and the design of educational technology. *Communications of the ACM*, 47(4), 45-49.
- Koehler, M. J. & Mishra, P. (2005). What happens when teachers design educational technology? The development of Technological Pedagogical Content Knowledge. *Journal of Educational Computing Research*. 32(2), 131-152.
- Mishra, P., & Koehler, M. J. (2006). Technological Pedagogical Content Knowledge: A new framework for teacher knowledge. *Teachers College Record* 108 (6), 1017-1054.
- Mishra, P. (2006). Affective Feedback from Computers and its Effect on Perceived Ability and Affect: A Test of the Computers as Social Actor Hypothesis. *Journal of Educational Multimedia and Hypermedia*. 15 (1), pp. 107-131.
- Mishra, P., & Yadav, A. (2006). Using hypermedia for learning complex concepts in chemistry: A qualitative study on the relationship between prior knowledge, beliefs and motivation. *Education and Information Technologies*. 11(1), 33-69.
- Heeter, C., Egidio, R., Mishra, P., Winn, B., & Winn, J. (2008). Alien Games: Do girls prefer games designed by girls? *Games & Culture Journal*. (4)1. p. 74-100.
- Harris, J., Mishra, P., & Koehler, M.J. (2009). Teachers' technological pedagogical content knowledge and learning activity types: Curriculum-based technology integration reframed. *Journal of Research on Technology in Education*, 41(4).
- Mishra, P. & Koehler, M. J. (2009). Too cool for school? No way! Using the TPACK framework: You can have your hot tools and teach with them, too. *Learning & Leading with Technology*, 36(7), 14-18.
- Mishra, P., Koehler, M. J., & Kereluik, K. (2009). The song remains the same: Looking Back to the Future of Educational Technology. *TechTrends*, 53(5). p. 48-53.
- Mishra, P., Koehler, M.J., & Henriksen, D (2011). The seven trans-disciplinary habits of mind: Extending the TPACK framework towards 21st century learning. *Educational Technology*.



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- Koehler, M. J., Mishra, P., Bouck, E., DeSchryver, M., Kereluik, K., Shin, T. S., & Wolf, L. G. (2011). Deep-play: Developing TPACK for 21st century teachers. *International Journal of Learning Technology*, 6(2), 146-163.
- Voogt, J., Estrad, O., Dede, C., Mishra, P. (2012). Challenges for learning and schooling in the 21st Century. *Journal of Computer Assisted Learning*.
- Mishra, P. & the Deep-Play Research Group (2012). Crayons are the future: Rethinking Technology & Creativity in the 21st Century. *Tech Trends*, 56(5), 13-16.
- Mishra, P., Henriksen, D. & the Deep-Play Research Group (2012). On Being *In-Disciplined*. *Tech Trends*. 56(6), 18-21.
- Mishra, P., Terry, C., Henriksen, D. & the Deep-Play Research Group (in press). Square peg, round hole, good engineering. *Tech Trends*.
- Mishra, P., Fahnoe, C., Henriksen, D. & the Deep-Play Research Group (in press). Creativity, self-directed learning and the architecture of technology rich environments. *Tech Trends*.
- Koehler, M. J., Mishra, P., Kereluik, K., Shin, T. S., & Graham, C. R. (in press). Technological pedagogical content knowledge. In M. Specter et al. (Eds.), *Handbook of Research on Educational Communications and Technology*.

FUNDED GRANTS

- 2010-13 Supporting teacher preparation and university development for the 21st Century: A collaborative partnership between Azim Premji Foundation and Michigan State University. *Azim Premji Foundation*. PI Punya Mishra. \$400,000.
- 2010-11 The creativity initiative at Michigan State University. *Office of the Vice President of Research, Michigan State University*. PI Mark Sullivan, Dean Rehberger, Punya Mishra, and others. \$80,000.
- 2009 Exploiting serious games to build system thinking skills for achieving globalization literacy. *ISE Global Competency Initiative, Office of the Provost, Michigan State University*. With Co-PI's Ron Rosenberg & Brian Winn \$11,000.
- 2008-09 *Research and evaluation of the design based engineering curriculum*. Intramural Research Grant Program, Co-PI's Neeraj Buch & Matthew J. Koehler \$60,000.
- 2004-06 *Reaching and educating at risk children in India*. In collaboration with the American Institutes of Research, Juarez Associates and World Learning. Funded by the U.S. Agency for International Development. \$500,000
- 2003-06 *Does Involving Girls as Designers Result in Girl-Friendly Science Education Software? Comparing processes and outcomes of same-sex 5th and 8th grade girl and boy design teams*. Proposal to the National Science Foundation. With Co-PIs Rhonda Egidio and Carrie Heeter. \$640,000.



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- 2003-06 *Teachers as designers: A problem-based approach to preparing teachers.* US Department of Education. PI with Yong Zhao, Matthew Koehler & Cheryl Rosean. \$1,500,000.
- 2001-03 *Perceived intelligence and the design of computer interfaces.* Intramural Research Grant Program, \$50,000.
- 2000-03 *Communities of designers: A comprehensive project-based approach to preparing tomorrow's teachers to use technology.* US Department of Education, PI with Yong Zhao, \$1,419,552.
- 2000-03 *Bringing Attribution Theory to Educational Technology: Developing a new research agenda.* Proposal submitted to the Joe L. Byers & Lucy Bates-Byers Endowment. \$60,000

Languages

Fluent in English, Hindi & Oriya (spoken)

Personal Interests

Visual wordplay, writing palindromic & children's poetry
Graphic design, typography, 20th century literature

