

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	(1) Dell Power Edge R640 or equal	1.00000	EA	\$9,057.930000	\$9,057.93

Comm Code	Manufacturer	Specification	Model #
43211501			

Extended Description : Dell Power Edge R640 or equal configured as described in the specifications section 3.1.1

Comments: Lenovo SR630

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	(1) Dell Power Edge R640 or equal	1.00000	EA	\$8,250.000000	\$8,250.00

Comm Code	Manufacturer	Specification	Model #
43211501			

Extended Description : Dell Power Edge R640 or equal configured as described in the specifications section 3.1.2

Comments: Lenovo SR630



State of West Virginia
Request For Quotation

Procurement Folder : 534954

Document Description : (2) Dell Power Edge R640 Servers or equal (6319B0058)


Procurement Type : Agency Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version	Phase
2019-01-28	2019-02-11 11:00:00	ARFQ 0803 DOT1900000029	1	Final

SUBMIT RESPONSES TO:	VENDOR
FINANCE & ADMINISTRATION DIVISION OF HIGHWAYS BLDG 5, RM A-220 1900 KANAWHA BLVD E CHARLESTON US	Vendor Name, Address and Telephone <i>ASTechnologies 383 King St N Ave SE # 357 Brooklyn NY 11213 718-473-1024</i>

0204
X203

FOR INFORMATION CONTACT THE
 Dusty J Smith
 (304) 558-9398
 dusty.j.smith@wv.gov

Signature X  FEIN # *611569225* DATE *02/10/2019*

ADDITIONAL INFORMATION:

*****NOTICE*****

MAKE SURE YOU DOWNLOAD ALL INFORMATION
TERMS AND CONDITIONS-SPECIFICATIONS-PURCHASING AFFIDAVIT-PRICING PAGES

PLEASE NOTE THAT TO BE AWARDED THIS CONTRACT YOU WILL BE TO A REGISTER VENDOR WITH WV STATE PURCHASING, AND COMPLIANT WITH SEVERAL AGENCIES SUCH AS THE WVSOS, TAX DEPARTMENT, WORKER'S COMPENSATION, AND UNEMPLOYMENT INSURANCE

INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV25305-0430 US		DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV 25305-0430 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
1	(1) Dell Power Edge R640 or equal	1.00000	EA	\$9,057.93	\$9,057.93

Commodity Code	Manufacturer	Model #	Specification
43211501	Lchoro	SR630	meets or exceeds the

Extended Description

Dell Power Edge R640 or equal configured as described in the specifications section 3.1.1

specifications requested

INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV25305-0430 US		DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV 25305-0430 US	

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2	(1) Dell Power Edge R640 or equal	1.00000	EA	\$8,250.00	\$8,250.00

Commodity Code	Manufacturer	Model #	Specification
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Extended Description

Dell Power Edge R640 or equal configured as described in the specifications section 3.1.2

specifications requested

SCHEDULE OF EVENTS

Line	Event	Event Date
1	TECHNICAL QUESTION @ 10AM	2019-02-04

Date 02/10/2019

DIVISION OF HIGHWAYS
Solicitation: DOT1900000029
Dusty J Smith

Dell Power Edge R640 Servers or equal (6319B0058)

Dear Dusty,

Proposal

After extensive research, we are proposing a solution by Lenovo. Lenovo is the leading PC manufacture in the world. Over the past **30 quarters** they have had the highest growth rate of any major PC manufacture in the world. Their US headquarters is located in Raleigh, North Carolina and all tech support is handled by US technicians based out of Atlanta, GA. Lenovo has acquired prestigious accounts, including the NYC Board of Education (largest school district in the country), Clark County School District (Las Vegas) and the United Nations Etc.

Lenovo Corporation has been in business for over 25 years. They began as a small manufacturer of PC clone computers and 10 years ago they purchased the IBM ThinkPad line computers. Just as, IBM they value engineering and quality. The products that they release meets the heights standards of quality and durability. **Gartner**, an independent and well known testing lab, rates Lenovo as the leader in this industry. We will be attaching the **Gartner Table** for your consideration.

Solution

QTY (1) Dell Power Edge R640 Server or equivalent server hardware

For this solution, we are proposing **QTY 1 of the Lenovo ThinkSystem SR630 - 5YR NBD On-Site service warranty that meet or exceeds the specifications that you requested.**

Please see the build below on what we are proposing. I have attached Data sheets on the server for your convenience.

Lenovo System SR630 QTY 1 (Configuration per machine)

Components	Description	Qty
7X02S4B900	ThinkSystem SR630 -	1
AUW0	ThinkSystem SR630 2.5" Chassis with 8 Bays	1
AWEL	Intel Xeon Gold 6126 12C 125W 2.6GHz Processor	1
AUND	ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM	2
AUWB	ThinkSystem SR530/SR630/SR570 2.5" SATA/SAS 8-Bay Backplane	1
5977	Select Storage devices - no configured RAID required	1

AUNJ	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter	1
AUUE	ThinkSystem 2.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	2
AUUJ	ThinkSystem 2.5" 2TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
AUWC	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit	1
AUWQ	Lenovo ThinkSystem 1U LP+LP BF Riser Bracket	1
AUKL	ThinkSystem 10Gb 2-port Base-T LOM	1
AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	1
AVWA	ThinkSystem 750W (230/115V) Platinum Hot-Swap Power Supply	2
6400	2.8m, 13A/100-250V, C13 to C14 Jumper Cord	2
AUPW	ThinkSystem XClarity Controller Standard to Enterprise Upgrade	1
B0MJ	Feature Enable TPM 1.2	1
AXCA	ThinkSystem Toolless Slide Rail	1
AUWW	Front VGA Connector Upgrade Kit for 1U 2.5"	1
AUWX	8x2.5" HDD BP Cable Kit	1
AV00	6.8m Super Cap Cable	1
AVEN	ThinkSystem 1x1 2.5" HDD Filler	2
AVJ2	ThinkSystem 4R CPU HS Clip	1
AUX4	MS 1U Service Label LI	1
AUX3	ThinkSystem SR630 Model Number Label	1
AUX0	ThinkSystem Package for SR630	1
AUWK	Lenovo ThinkSystem 4056 Fan Dummy	1
AUWL	Lenovo ThinkSystem 1U LP Riser Dummy	1
AULP	ThinkSystem 1U CPU Heatsink	1
AUTV	ThinkSystem large Label for non-24x2.5"/12x3.5"/10x2.5"	1
AUTJ	ThinkSystem common Intel Label	1
AUTC	ThinkSystem SR630 Lenovo Agency Label	1
AUTA	XCC Network Access Label	1
B173	Companion Part for XClarity Controller Standard to Enterprise Upgrade in Factory	1
AVWJ	ThinkSystem 750W Platinum RDN PSU Caution Label	1
AVWK	ThinkSystem EIA Plate with Lenovo Logo	1
AUNP	FBU345 SuperCap	1
AUS6	Lenovo ThinkSystem 1U height CPU HS Dummy	1
AURR	ThinkSystem M3.5 Screw for Riser 2x2pcs and SR530/550/558/570/590 Planar 5pcs	2
AURS	Lenovo ThinkSystem Memory Dummy	10
AURN	Lenovo ThinkSystem Super Cap Box	1
AUW3	Lenovo ThinkSystem Mainstream MB - 1U	1
ASFE	Notice for Advanced Format 512e Hard Disk Drives	1
AWF9	ThinkSystem Response time Service Label LI	1
AWGE	ThinkSystem SR630 WW Lenovo LPK	1
B0ML	Feature Enable TPM on MB	1

5WS7A01490	WARRANTY Fdn Svc-5Y	1
00WH545	PWRC 2.8m, 13A/120V, C13 US	2

QTY (1) Dell Power Edge R640 Server or equivalent server hardware

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AUUE	ThinkSystem 2.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	6
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AUWQ	Lenovo ThinkSystem 1U LP+LP BF Riser Bracket	1
AUKL	ThinkSystem 10Gb 2-port Base-T LOM	1
AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	1
AVWA	ThinkSystem 750W (230/115V) Platinum Hot-Swap Power Supply	2
6400	2.8m, 13A/100-250V, C13 to C14 Jumper Cord	2
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AUS6	Lenovo ThinkSystem 1U height CPU HS Dummy	1
AURR	ThinkSystem M3.5 Screw for Riser 2x2pcs and SR530/550/558/570/590 Planar 5pcs	2
5WS7A01490	WARRANTY Fdn Svc-5Y	1
00WH545	PWRC 2.8m, 13A/120V, C13 US	2

Insurance

Y&S Technologies maintains all required commercial insurance policies and will be more than happy to provide proof of insurance if the State requests it.

Pricing

Please see bid paperwork for pricing.

Delivery

We can provide delivery within 25 days ARO. Our price includes shipping and handling.

Y&S References

Y&S has provided solutions like this throughout the country. Here are a few references for your convenience:

- 1) **Reginal Transportation Authority** in Dayton, OH. Point of Contact is Jim Canaday, Ph #937-425-8320, E-mail jcanaday@greaterdaytonrta.org. We provided 5 Lenovo System X servers with Microsoft Licenses worth over \$189,000 in June 2016.

- 2) **Applied Materials** in Hopewell Junction, NY. Point of Contact is Paul Llanos, Ph #845-227-0298, E-mail Paul.Llanos@amat.com. We provided Applied Materials with over \$700,000 worth of System X Server equipment over the past couple of years.
- 3) **Knoxville Utility Board** in Knoxville, KY. Point of Contact is Rebekah Taylor. Ph #865-558-2307, E-mail Rebekah.taylor@kub.org. KUB purchases over \$150,000 worth of System X servers over the past couple of years.
- 4) **Craven County Schools**, in New Bern, NC. The point of contact is Lori Prescott who can be reached at 252-514-6357 or by E-mail at Lori.prescott@craven.k12.nc.us. We supplied over 750 Lenovo Chromebooks with services valued over \$350, 000 in over the past couple of years.
- 5) **Booneville School District** in Booneville, MS. Point of contact is Dustin Pounders, Ph #662-728-2171, E-mail dpounders@boonevilleschools.org. We supplied over 800 Lenovo Chromebooks with services valued over \$150,000.
- 6) **Wilton Public Schools** in Wilton, CT. The point of contact is Helaine Walker who is the senior Admin for the IT Director. Helaine can be reached by 203-834-4874 or by walkerh@wilton.k12.ct.us. We sold over \$575,000 worth of Lenovo Laptops and accessories with Image services.
- 7) **West Virginia Alcohol Beverage Control Administration**. The point of contact is Randy Haynes. We supplied over 6 Lenovo servers in January of 2018 worth over \$50,000 we were over \$30,000 dollars cheaper than the next bidder.

Point of Contact

Saul Finck (Sales Manager) will be your point of contact for this contract and will assist the States and its personnel in any matters related to this contract. Contact Information is as follows: PH #718-473-0284 Ext 200. E-mail saul@yandstech.com.

Brief History of our Company

Y&S Technologies have been in business for over eleven years with our primary focus on the education and government sector. Our senior staffs have over 40 years of combined experience, selling and servicing the academic and government market. Y & S Technologies was established in the midst of the worst recession since the Great Depression. We have not only survived but we have grown our business every year by a minimum of 20%. We offer our customers highly competitive solutions, the best products at the best prices, and a high level of service and support. These directly contribute to our successful and expanding business.

If you should need any further information please feel free to contact me at your earliest convenience. Thanking for the opportunity to do business with your city.

Saul Finck
Sales Manager
Y&S Technologies

Lenovo ThinkSystem SR630

Built for business-critical versatility



Highly Versatile

Featuring the largest storage capacity and highest performance in Lenovo's 1U server portfolio, Lenovo ThinkSystem SR630 excels at many workloads. With a wide selection of processors, drives, and interconnects, it helps you: 1) transform resources into services, using validated designs for hybrid cloud; 2) perform analytics on streaming data, using validated designs for Big Data; 3) improve performance of virtualized transactional systems, using validated designs for OLTP databases; or 4) simplify storage scale-out, using configuration guides for hyperconverged infrastructure (HCI) or software-defined storage (SDS).

Highly Flexible

ThinkSystem SR630 includes two powerful Intel® Xeon® processor Scalable family CPUs with 27 percent more cores, twice the memory capacity and 50 percent more bandwidth than the prior generation*. It has up to four⁸ PCIe 3.0 slots for I/O flexibility. Unique Lenovo AnyBay technology provides optimized storage flexibility and performance, with up to 12 SFF or 4 LFF SAS/SATA HDDs/SSDs. Four direct-connect NVMe ports on the motherboard provide ultra-fast read/writes with NVMe drives and reduce costs by eliminating PCIe switch adapters. Plus, storage can be tiered for greater application performance, to provide the most cost-effective solution. Optional mirrored M.2 boot drives ensure reliability and quick OS initialization. SR630 also supports modular LOM, ML2, and PCIe network adapters. To reduce energy costs, it features 80 PLUS Platinum and Titanium PSUs, and continuous operation at 45°C.

Easily Managed

Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

Lenovo servers continue to be the industry's #1 most reliable¹, with the industry's highest customer satisfaction** rating.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

Lenovo™

WWW.LENOVO.COM

ThinkSystem



Specifications

Form Factor/Height	1U rack server
Number of Processors	Up to 2x Intel® Xeon® Platinum processors, up to 205W
Memory	Up to 3TB ¹ in 24x slots, using 128GB ¹ DIMMs; 2666MHz TruDDR4
Expansion Slots (max)	Up to 4x PCIe 3.0 slots (with two CPUs), incl. 1x dedicated PCIe for RAID adapter
Drive Bays	Up to 12 bays (incl. 4x AnyBay): LFF: 4x HS SAS/SATA; SFF: 4x HS AnyBay + 6x HS SAS/SATA + 2x rear; or 8x HS SAS/SATA; plus up to 2x mirrored M.2 boot
HBA/RAID Support	Hardware RAID (up to 16 ports) with flash cache; up to 16-port HBAs
Security and Availability	TPM 1.2/2.0; PFA; HS/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port
Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM with Base-T or SFP+; 1x dedicated 1GbE management port
Power	2x hot-swap/redundant: 550W/750W/1100W AC 80 PLUS Platinum; or 750W AC 80 PLUS Titanium
Systems Management	XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management
OSes Supported	Microsoft Windows Server, SLES, RHEL, VMware vSphere. Visit lenovopress.com/osig for more information.
Limited Warranty	1- and 3-year customer replaceable unit and onsite service, next business day 9x5; opt. service upgrades

* Compared to the Lenovo x3550 M5; [§] One slot is dedicated for a RAID adapter.; [†] 2016-2017 Global Hardware, Server OS Reliability Report, ITIC; October 2016.

** 2H16 Corporate IT Buying Behavior and Customer Satisfaction Study, TBR; December 2016. ¹ 1.5TB at GA; 128GB DIMMs available in the near future. Available prior to GA via special bid.

Featured Options

M.2 128GB SATA 6Gbps Non-Hot-Swap SSD	10Gb 2-port SFP+ LOM	2.5-inch 7.68TB SAS 12Gb Hot-Swap SSD
7N47A00130	7ZT7A00546	7N47A00122
Boot drive. Better performance and reliability than USB key or SD card; lower cost than HDDs	Low-cost Intel LOM available for 1Gb, 10Gb, SFP+, and RJ45 connectivity	High-performance, reliable storage solution for read-intensive, high-capacity enterprise applications

Visit [Options](#) for more information.

For More Information

To learn more about the Lenovo ThinkSystem SR630, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specs, consult the SR630 Product Guide.

NEED STORAGE?

[Learn more about Lenovo Storage
www.lenovo.com/systems/storage](http://www.lenovo.com/systems/storage)

NEED SERVICES?

[Learn more about Lenovo Services
www.lenovo.com/systems/services](http://www.lenovo.com/systems/services)

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Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographical errors. **Warranty:** For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services.

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