CONTRACT free that also, NO  SEFECTIVE DATE 25 JUN 2000  ADMINISTRETO BY "Value data from the CODE EXTENDANCY  OR ADMINISTRETO BY "VALUE AND THE	AWARD	/CONTRACT	1. THIS CONTRACT			R			RATING NONE	PAGE OF F	29
SCAN DEFROIT  SOURCE FOOD OF STATE OR  SERVICE TO ANALY AND ADDRESS OF CONTRACTOR  (Fig. 60m; 60m; 60m; 60m; 60m; 60m; 60m; 60m;	2. CONTRACT /	roc Inst. Idens.) NO.		Γ.				STI ION/P			<u>.</u> 5
TABLE OF CONTENTS  SEE SCHEDULE    1	3701 N FAIRFAX OR	LOSKI	HR0011		DOMA DETRO	HT JK & AUTC	MOTIVE COM		,	)E S2306A	
NA    NA   NA   NA   NA   NA   NA   NA	RAYTHEON COMPAN 1016 PRODUCTION F	5D 1A	TOR (No., street, til); t	county, state a	nei zap ewde)			[ ]	FOBORIGIN [X] C		rn-J
Section G  CODE 37695  FACILITY CODE  IS SIGNAN IN:  IS SIGNAN IN:	FORT WAYNE IN 468	08-4106							UNI FOR IROM FLATME		
LI SETTO TO TOWN ARK FOR CODE   MIGHT    12. PAYMENT WILL BE MADE BY    6. FAS COLUMBUS CHITE    13. AUTHORITY FUR USING OTHER THAN FULL AND OPEN    14. ACCOUNTING AND APPROPRIATION DATA    5. SEE SCHEDULE    15. AUTHORITY FUR USING OTHER THAN FULL AND OPEN    15. ATTEM NO.   158. SUPPLIES / SERVICES    15. A SOLICITAL INDIVIDUAL CONTRACT FORM    15. A SOLICITAL INDIVIDUAL CALLES    16. TABLE OF CONTRINTS    17. A SOLICITAL INDIVIDUAL CALLES    18. A SOLICITAL INDIVIDUAL CALLES    19. A SOLICITAL INDIVIDUAL CALLES    20. A SOLICITAL INDIVIDUAL CALLES    21. A SOLICITAL INDIVIDUAL CALLES    22. A SOLICITAL INDIVIDUAL CALLES    23. A SOLICITAL INDIVIDUAL CALLES    24. A SOLICITAL INDIVIDUAL CALLES    25. A SOLICITAL INDIVIDUAL CALLES    26. DESCRIPTION CONTRACT FORM    27. A SOLICITAL INDIVIDUAL CALLES    28. A SOLICITAL INDIVIDUAL CALLES    29. A SOLICITAL INDIVIDUAL CALLES    20. A SOLICITAL INDIVIDUAL CALLES    20. A SOLICITAL INDIVIDUAL CALLES    21. A SOLICITAL INDIVIDUAL CALLES    22. A SOLICITAL INDIVIDUAL CALLES    23. A SOLICITAL INDIVIDUAL CALLES    24. A COUNTRACT CALLES    25. A SOLICITAL INDIVIDUAL CALLES    26. DESCRIPTION SERCES / WORKS STATEMENT    27. A SOLICITAL INDIVIDUAL CALLES    28. A SOLICITAL INDIVIDUAL CALLES    29. A SOLICITAL INDIVIDUAL CALLES    20. A SOLICITAL INDIVIDUAL CALLES    20. A SOLICITAL INDIVIDUAL CALLES    21. A SOLICITAL INDIVIDUAL CALLES    22. A SOLICITAL INDIVIDUAL CALLES    23. A SOLICITAL INDIVIDUAL CALLES    24. A SOLICITAL INDIVIDUAL CALLES    25. A SOLICITAL INDIVIDUAL CALLES    26. DESCRIPTION SERCES / WORKS STATEMENT    27. A SOL	20DF 27606		Tracin Tracoon		······································	*		14 cupies to TO VIIE /	nless otherwise spec (fied) ADDRESS		G
COMPETITION  ID US C 2304(c)    14 U.S.C. 253(c)   25 SEE SCHEDULE    15 C QUANTITY   15 D UNIT   15 E UNIT PRICE   15 F. AMOUNT	11. SHIP TO/MAI DARPA LARRY STOTTS ATTN: STRATEGIC 1 3701 NORTH FAIRFA	FECHNOLOGY OFFICE			DFAS COLU NORTH ENT P O. BOX 18	MBUS CEI 17 LEMENT 2266	NTER FOPERATION		Cor	DE HQ0337	
SEE SCHEDULE    ISG. TOTAL AMOUNT OF CONTRACT   \$24,366,009,00	COMPETITIO	ON:		ì	1		AND APPI	ROPRIAT	ION DATA		
SEC   DESCRIPTION   PAGE	ISA. ITEM NO.		***************************************		ISC. QUA	NTITY	15D. UN	TIV	15E, UNIT PRICE	ISF. AM	TAUC
International Contract State   International Contract Contract State   International Contract		SEE \$	SCHEDUL								+
SEC   DESCRIPTION   PAGE			16	TABLE C	E CONTE		G. TOTAL	AMOUN	T OF CONTRACT	\$24,366,0	00.00
X   A SOLICITATION/ CONTRACT FORM   1	X) SEC.		N								PAGE(S)
X   B   SUPPLIES OR SERVICES AND PRICES/ COSTS   2 - 5   PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS   29	X A SOLIO			1	TXT I	CONT			ONTRACT CLAUSES		24 - 28
X   D   PACKAGING AND MARKING   8   PART IV - REPRESENTATIONS AND INSTRUCTIONS	X B SUPP	LIES OR SERVICES AN	D PRICES/ COSTS			- LIST	OF DOCUM	MENTS.	EXHIBITS AND OTHE	R ATTACHME	
X E INSPECTION AND ACCEPTANCE 9 K REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS  X G CONTRACT ADMINISTRATION DATA 13 - 15 L INSTRS., CONDS., AND NOTICES TO OFFERORS  X H SPECIAL CONTRACT REQUIREMENTS 16 - 23 M EVALUATION FACTORS FOR AWARD  CONTRACTING OFFICER, WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE  10 [X] CONTRACTORS NEGOTIATED AGREEMENT Contractor agreed to treat or perform all the services set tentil on otherwise identified above and on deliver all terms or perform all the services set tentil on otherwise identified above and on deliver all terms or perform all the services set tentil on otherwise identified above and on any continuation in tentil to the consideration and consideration from a figure and constitutions and governed by the following documents: (a) this award-constitutions and specifications are listed therein.  All ALL AND TITLE OF SIGNED  190 DATE SIGNED  191 DATE SIGNED  191 DATE SIGNED  192 DATE SIGNED  193 DATE SIGNED  194 DATE SIGNED  195 DATE SIGNED  196 DATE SIGNED  197 DATE SIGNED  198 DATE OF CONTRACTING OFFICER  Robin M. Swatioski, Contracting Officer)  208 DATE SIGNED  197 DATE SIGNED  198 DATE SIGNED  199 DATE SIGNED  190 DATE SIGNE				<del></del>	1 × 1 1				ATION'S AND INSTRI	CTHONS	29
X   DELIVERES OF PERFORMANCE   10 - 12   OTHER STATEMENTS OF OFFERORS    X   G   CONTRACT ADMINISTRATION DATA   13 - 15   L   INSTRS., CONDS., AND NOTICES TO OFFERORS    X   H   SPECIAL CONTRACT REQUIREMENTS   16 - 23   M   EVALUATION FACTORS FOR AWARD    CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE    13   L   INSTRS., CONDS., AND NOTICES TO OFFERORS    W   EVALUATION FACTORS FOR AWARD    CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE    15   L   INSTRS., CONDS., AND NOTICES TO OFFERORS    W   EVALUATION FACTORS FOR AWARD    CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE    15   L   WARD   Contractors and instruction in this decouple of the process set text) to understant in the process of text in the process set text) to understant in the process of text in	The state of the s			-		REPR				<u></u>	
X H SPECIAL CONTRACT REQUIREMENTS 16-23 M EVALUATION FACTORS FOR AWARD  CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE  18 [] AWARD (Contractor a not required to sign this deciment) and define all tentrors of perform all the strong of perform all the strong set fortile to otherwise desired down and on any continuations there for the consideration sated farm. The rights and obligations of the parties to the consideration sated farm. The rights and obligations of the parties to the construct shift be subject to and governed by the following documents: (a) the parties to this award-construct, (b) the soluctation, if any, and (c) such provisions, representations, conflictations, and specifications are fluided by reference herein.  (Altochappens are fluided herein)  104 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer  TEL: 572-218-4542 ENAIL: Robin, Swatloski, Parties of Supractions of Supracting Officer)  195 DATE SIGNED  196 DATE SIGNED  197 DATE SIGNED  198 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer)  200, DATE SIGNED  198 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer)  200, DATE SIGNED  306-26-09  307 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer)  200, DATE SIGNED  307 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer)  200, DATE SIGNED  308 AVAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer)						OTHE		,,			<u> </u>
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE  12 [X] CONTRACTOR'S NEGOTIATED AGREEMENT Confractor is required to sign that she was or perform all the strong of perform all the strong of perform all the strong set forth or otherwise described above and on any continuation therets for the consideration stated therem. The rights and obligations of the parties to this obligations of the parties to this obligations of the parties to the solicitation at the therem. The rights and obligations of the parties to this obligations of the parties to the solicitation. If are, and (c) into provisions, representations, confinences, and specifications and specifications and specifications and specifications and specifications are shaded or moniparated by reference herein.  (Anticulargular are listed herein.)  104 NAME OF CONTRACTING OFFICER  Robin M. Swathoski, Contracting Officer  TEL: 572-218-4542 ENAIL: Robin, Swatloski, Parties of Suprison and Solicitation Solicitation Solicitation Solicitation Solicitation Solicitation Solicitation Solicitation Solicitati										)	-
Secured of person at the extrement set from an undersome set from				<del></del>							
terms of perform all the services set torth on otherwise identified above and on any continuous thresh for the consideration stated herem. The rights and obligations of the parties to thus consideration stated herem. The rights and obligations of the parties to thus consideration stated herem. The rights and obligations of the parties to thus consideration stated device and on any continuous above, is hereby accepted us to the items listed above and on any continuous above. This way and (c) that provisions, representations, continuous and specifications are attached or monitorated by reference herein.  (A) the soluctation, if any, and (c) the provisions, representations, continuous and specifications and specifications and specifications and specifications. (b) this invaridocentees. No further contractural document is necessary.  (b) this invaridocentees. No further contractural document in necessary.  20A. NAME OF CONTRACTING OFFICER Robin M. Swatloski, Contracting Officer  TEL: 571-218-4542 SMAIL: Robin, Swatloski, Particles (1908).  BY  (Signafigle of parson malborized to arigh)  (Signafigle of parson malborized to arigh)  (Signafigle of parson malborized to arigh)	(2) [X ] CONTRACT	UR'S NECOTIATED AGREEME	NT Contractor is required to	e sign this	18 [ ] 81	VARD (Co	niem in 100 tr	pir at baring	<u>n this gocument i</u> Yeur offer	on Solicitation Number	T
29A. NAME OF CONTRACTING OFFICER Robin M. Swatloski, Contracting Officer TEL: 571-218-4542 ENAIL: Robin, Ewatleski derpa. mt.)  19B. NAME OF CONTRACTING OFFICER Robin M. Swatloski, Contracting Officer TEL: 571-218-4542 ENAIL: Robin, Ewatleski derpa. mt.)  19C. DATE SIGNED  20B. INITED STATES OF AMERICA  20C. DATE SIGNED  36 Jun 09  (Signature of Constructing Officer)	items or perform all the streets for the consider contract shall be subjec- (b) the solicitation, if a tax are attached or med	e services set forth or otherwise ich atten stated herem. The rights and at to and governed by the following my, and (c) then provisions, represendanted by reference herein.	entified above and on any contra abligations of the parties to thu aboutments: (a) this award on	กราหาใน เรา	above, is her the contract	eby accepted which censi	d as to the items ists of the tidlow	ing document przied aporc	and on my continuation sheets. These (a) the Covernment's solicitation	us assert constantance	
BY (5.5gnadgle of person malborized to sign)  06-26-09  BY (5.5gnadgle of person malborized to sign)  36Jun 09	(b)(4)	D TITLE OF SIGNED	(7		Rol	oin M. Sv	watłoski, Co		Officer	closki9darpa.	mí)
(Signating) of person matherized to sign) (Signature of Constructing Officer)	(b)(4)	CONTRACTOR			(b)					20C. DATE:	SIGNED
NSN 7540-01-152-8060 26-107 STANDARD FORM 26 (REV. )	(Signal NSN 7540-(1)-152-80	· · · · · · · · · · · · · · · · · · ·			26-107		(Signam	re of Canifu		A POAL	10 J

# Section B - Supplies or Services and Prices

ITEM NO 0001

SUPPLIES/SERVICES

MainGate CPFF

Contractor shall furnish the necessary personnel, material, facilities and other services as may be required to perform the work in accordance with the contract, Attachment 1, Statement of Work (SOW), Attachment 2, Contract Data Requirements List (CDRL), and Attachment 3, Program Metrics from the proposal entitled Mobile Ad hoc Interoperability Network GATEway (MAINGATE) dated 26 AUG 2008 and updated 13 MAY 2009 and 04 JUN 2009 for the WIPN Gateway and Spatial Diversity Multiple Input / Multiple Output (SD MIMO). FOB: Destination

ESTIMATED FIXED
COST FEE
(b)(4)

TOTAL EST. COST PLUS FIXED FEE \$24,366,000.00

\$24,366,000.00

ITEM NO 000101

SUPPLIES/SERVICES

Funding for CLIN 0001

**CPFF** 

FOB: Destination AO No. Y410/00

AO No. Y410/00

ESTIMATED COST

\$0.00

FIXED FEE

\$0.00

TOTAL EST. COST PLUS FIXED FEE

> \$0.00 \$0.00

ACRN AA

\$21,746,737.00

ITEM NO. 0002 OPTION

SUPPLIES/SERVICES QUANTITY

JANTITY UNIT (b)(4) Each

UNIT PRICE

AMOUNT \$62,712,493.00

Option 1 - Limited User Test (LUT 1)

**FFP** 

Contractor shall furnish the necessary personnel and material and other services as may be required to perform Option 1 LUT work in accordance with the contract, Attachment 1, SOW, and Attachment 2, CDRL and Attachment 3, Program Metrics.

FOB: Destination

**NET AMT** 

\$62,712,493.00

ITEM NO 0003 OPTION SUPPLIES/SERVICES

Option 2 - CONUS Test Support CPFF

Contractor shall furnish the necessary personnel and material and other services as may be required to perform Option 2 CONUS Test Support work in accordance with the contract, Attachment 1, SOW, and Attachment 2, CDRL and Attachment 3, Program Metrics.

FOB: Destination

ESTIMATED COST FIXED FEE (b)(4) TOTAL EST.
COST PLUS
FIXED FEE
\$3,100,000.00
\$3,100,000.00

ITEM NO. 0004 OPTION SUPPLIES/SERVICES

QUANTITY

UNIT Each UNIT PRICE (b)(4) AMOUNT \$62,847,303.00

Option 3 - Limited User Test (LUT 2)

**FFP** 

Contractor shall furnish the necessary personnel and material and other services as may be required to perform Option 3 LUT work in accordance with the contract, Attachment 1, SOW, and Attachment 2, CDRL and Attachment 3, Program Metrics.

FOB: Destination

**NET AMT** 

\$62,847,303.00

ITEM NO 0005 OPTION SUPPLIES/SERVICES

Option 4 - OCONUS Test Support

**CPFF** 

Contractor shall furnish the necessary personnel and material and other services as may be required to perform Option 4 OCONUS Test Support work in accordance with the contract, Attachment 1, SOW, and Attachment 2, CDRL and Attachment 3, Program Metrics.

FOB: Destination

ESTIMATED COST

FEE (b)(4) TOTAL EST.
COST PLUS
FIXED FEE
\$1,550,000.00
\$1,550,000.00

TOTAL EST.

ESTIMATED COST

\$0.00

FIXED FEE COST PLUS FIXED FEE

\$0.00

\$0.00 NSP

0006 Reports and Other Deliverables

SUPPLIES/SERVICES

**CPFF** 

ITEM NO

The contractor shall provide the Reports and Other Deliverables in accordance with Sections C-2 and F-2, and contractor's proposal identified in CLIN 0001. FOB: Destination

FOB: Destination AO No. Y410/00

#### Section C - Descriptions and Specifications

#### CLAUSES INCORPORATED BY FULL TEXT

### C-1 Scope of Work

- (a) The Contractor shall furnish the necessary personnel, materials, facilities, and other services as may be required to perform Contract Line Item Numbers (CLINs) 0001 and 0006, and Option CLINs 0002, 0003 and 0004, in accordance with the contract, Attachment 1, Statement of Work (SOW), Attachment 2, Contract Data Requirements List (CDRL), and Attachment 3, Program Metrics attached hereto. The work and services to be performed hereunder shall be subject to the requirements and standards contained in the Contractor's proposal entitled "Mobile Ad hoc Interoperability Network GATEway (MAINGATE)" dated 26 AUG 2008 and updated 13 MAY 2009 and 04 JUN 2009, copies of which are in the possession of both parties.
- (b) In the event of an inconsistency between the provisions of this contract and the Contractor's proposal, the inconsistency shall be resolved by giving precedence in the following order: (1) the contract, (2) the attachments to the contract, and then (3) the Contractor's proposal. (end of clause)

# C-2 Reports and Other Deliverables

- (a) The Contractor shall submit the reports in accordance with Attachment 2, CDRL, and other deliverables in accordance with the delivery schedule set forth in Section F. Reports and other deliverables shall be submitted in writing, as defined in FAR 2.101, or as otherwise specified in this contract.
- (b) Reports delivered by the Contractor in the performance of the contract shall be considered "Technical Data" as defined in Section I contract clauses entitled "Rights in Technical Data Noncommercial Items" and "Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation."
- (c) Bulky Reports shall be mailed by other than first-class mail unless the urgency of submission requires use of first-class mail. In this situation, one copy shall be mailed first-class and the remaining copies forwarded by less than first-class.
- (d) All papers and articles published as a result of DARPA sponsored research shall include a statement reflecting the sponsorship. In addition, a bibliography of the titles and authors of all such papers are to be included in the Final Technical Report
  - (1) The cover or title page of each of the above reports or publications prepared, will have the following citation:

Sponsored by
Defense Advanced Research Projects Agency
Strategic Technology Office (STO)
Program: Mobile Ad hoc Interoperability Network GATEway
ARPA Order No. Y410/00, Program Code: 9410
Issued by DARPA/CMO under Contract No. HR0011-09-C-0083

(2) The title page shall include a disclaimer worded substantially as follows:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government."

(3) All technical reports must (i) be prepared in accordance with American National Standards Institute (ANSI) Standard Z39.18; (ii) include a Standard Form 298, August 1998; and (iii) be marked with an appropriate Distribution Statement.

(end of clause)

# Section D - Packaging and Marking

# CLAUSES INCORPORATED BY FULL TEXT

# D-1 Packaging and Marking

All items shall be preserved, packaged, packed and marked in accordance with best commercial practices to meet the packing requirements of the carrier, and to ensure safe delivery at destination. (end of clause)

# Section E - Inspection and Acceptance

# INSPECTION AND ACCEPTANCE TERMS

# Supplies/services will be inspected/accepted at:

CLIN 0001 000101 0002 0003 0004 0005	INSPECT AT Destination N/A Destination Destination Destination Destination	INSPECT BY Government N/A Government Government Government	ACCEPT AT Destination N/A Destination Destination Destination	ACCEPT BY Government N/A Government Government
0005 0006	Destination Destination	Government Government	Destination Destination	Government Government
0006	Destination	Government	Destination	Governm

# CLAUSES INCORPORATED BY REFERENCE

52.246-8	Inspection Of Research And Development Cost	MAY 2001
	Reimbursement	
252.246-7000	Material Inspection And Receiving Report	MAR 2008

# **DELIVERY INFORMATION**

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	20-AUG-2010		DARPA LARRY STOTTS ATTN: STRATEGIC TECHNOLOGY OFFICE 3701 NORTH FAIRFAX DRIVE ARLINGTON VA 22203-1714 571-218-4346 FOB: Destination	HR0011
000101	20-AUG-2010		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011
0002	30-SEP-2011		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011
0003	31-OCT-2011		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011
0004	30-JUN-2012		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011
0005	31-JUL-2012		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011
0006	20-AUG-2010		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011

# CLAUSES INCORPORATED BY REFERENCE

52.242-15 Alt I	Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.247-34	F.O.B. Destination	NOV 1991

# CLAUSES INCORPORATED BY FULL TEXT

# F-1 Term of Contract

- (a) The term of the contract commences on 23 MAR 2009 and continues through 20 AUG 2010 unless the government exercises any Option as set forth below.
- (b) The period of performance for Option 1, as set forth in CLIN 0002, shall be from the Option Exercise Date plus seventeen (17) months. The government may exercise Option 1, CLIN 0002, Limited User Test (LUT 1), at

the price specified in the contract. The Contracting Officer may exercise the option by written notice to contractor on or before 30 SEP 2010.

- (c) The period of performance for Option 2, as set forth in CLIN 0003, shall be from the Option Exercise Date plus eighteen (18) months. The government may exercise Option 2, CLIN 0003, CONUS Test Support, at the price specified in the contract. The Contracting Officer may exercise the option by written notice to contractor on or before 30 SEP 2010.
- (d) The period of performance for Option 3, as set forth in CLIN 0004, shall be from the Option Exercise Date plus seventeen (17) months. The government may exercise Option 3, CLIN 0004, Limited User Test (LUT 2), at the price specified in the contract. The Contracting Officer may exercise the option by written notice to contractor on or before completion of the tenth (10<sup>th</sup>) month of Limited User Test (LUT 1) (CLIN 0002) to allow for continuous production and retention of contractor personnel.
- (e) The period of performance for Option 4, as set forth in CLIN 0005, shall be from the Option Exercise Date plus seven (7) months. The government may exercise Option 4, CLIN 0005, OCONUS Test Support, at the price specified in the contract. The Contracting Officer may exercise the option by written notice to contractor on or before completion of the tenth (10<sup>th</sup>) month of Limited User Test (LUT 1) (CLIN 0002) to allow for continuous production and retention of contractor personnel.
  (end of clause)

### F-2 Reports and Other Deliverables

Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with Attachment 2, CDRL. (end of clause)

# F-3 Report Distribution

(a) DARPA/STO

Attn: Dr. Larry Stotts, Program Manager 3701 North Fairfax Drive Arlington, VA 22203-1714 Email: Larry.Stotts@darpa.mil (one copy each report)

(b) DARPA/STO

Attn: Patrick Bailey, ADPM 3701 North Fairfax Drive Arlington, VA 22203-1714 Phone: (703) 696-5277 Fax: (703) 807-0968

Email: Patrick.Bailey@darpa.mil

(one copy each report)

(c) DARPA/Library
3701 North Fairfax Drive
Arlington, VA 22203-1714
Email: <a href="mailto:library@darpa.mil">library@darpa.mil</a>
(one copy of the Final Technical Report)

(d) Defense Technical Information Center

# (1) Email: TR@dtic.mil (one electronic copy of the Final Technical Report, if unclassified)

OR

(2) Attn: DTIC-BCS 8725 John J. Kingman Road, Suite 0944 Fort Belvoir, VA 22060-0944 (two hard copies of the Final Technical Report if unclassified)

### (e) DARPA/CMO

Attn: Robin Swatloski, Contracting Officer

3701 North Fairfax Drive Arlington, VA 22203-1714 Phone: (571) 218-4542 Fax: (703) 741-7801

Email: Robin.Swatloski@darpa.mil

(one copy each report)

#### (f) COR

Attn: Neil Hoff SPAWAR Systems Center Pacific (Code 55450) 4297 Pacific Highway, Bldg. 7 San Diego, CA 92110-5000

Phone: 619-553-9402 Email: neil.hoff@navy.mil (one copy each report)

(end of clause)

# F-4 Notice Regarding Late Delivery

In the event the Contractor anticipates difficulty in complying with the contract delivery schedule, the Contractor shall immediately notify the Contracting Officer in writing, giving pertinent details, including the date by which it expects to make delivery; PROVIDED, however, that this date shall be informational only in character and the receipt thereof shall not be construed as a waiver by the Government of any contract delivery schedule, or any rights or remedies provided by law or under this contract.

(end of clause)

#### ACCOUNTING AND APPROPRIATION DATA

#### CLAUSES INCORPORATED BY FULL TEXT

### G-1 Procuring Office Representative

The Procuring Office Representative is Robin Swatloski, Contracting Officer, DARPA/CMO, 3701 North Fairfax Drive, Arlington, VA 22203-1714, telephone: (571) 218-4542, e-mail: Robin.Swatloski@darpa.mil. (end of clause)

# G-2 Electronic Submission of Payment Requests

- (a) Invoices for goods received or services rendered under this contract shall be submitted electronically through Wide Area Work Flow Receipt and Acceptance (WAWF):
  - (1) Vendors that have never used WAWF shall follow the directions in the  $\underline{WAWF}$  Vendor Getting Started  $\underline{Guide}$  available at the following website:

http://www.dfas.mil/contractorpay/electroniccommerce/wideareaworkflow.html. This website also contains links for Vendor training and practice. Additional support can be obtained by calling WAWF Customer Service at 866-618-5988.

- (2) Back up documentation (such as timesheets, monthly status reports, etc.) can be included and attached to the invoice in WAWF. Attachments should be in PDF format, but Attachments created in any Microsoft Office product may be attached. Total limit for the size of files per invoice is 5 megabytes.
- (b) The following information, regarding invoice routing DoDAAC's, must be entered for completion of the invoice in WAWF:

WAWF Invoice Type:	Cost Voucher for all Cost or T&M contracts or CLINs
Issuing Office DoDAAC	HR0011
Admin Offfice DoDAAC	S2305A
Service Approver DoDAAC (Cost Voucher)	S2305A
DCAA Office DoDAAC (Used on Cost Vouchers	HAA155
only)	·
Paying Office DoDAAC	HQ0337

(c) Cost Vouchers from Contractors approved by DCAA for direct billing will be directly routed to DFAS. Cost Vouchers from Contractors not approved for direct billing will be routed to DCAA for approval before the Cost Voucher is routed to DFAS. All Final Cost Voucher submissions will be routed to the Service Approver for approval. The DCAA office for this award is:

1010 Production Road, Mail Stop D4 33 Fort Wayne, IN 46808-4106

DoDAAC: HAA155

Phone No: Larry Roberts, 260-429-6454

E-mail: larryj.roberts@dcaa.mil

(d) For each invoice/cost voucher submitted for payment, the contractor shall also e-mail the WAWF automated invoice notice directly to the following points of contact:

Name	E-mail	Phone	Role
Neil Hoff	neil.hoff@navy.mil	619-553-9402	COR

- (e) Submission of Invoices under Fixed Price Type Contracts
  - 1. "Invoice" as used in this paragraph does not include the contractor's requests for progress payments.
  - 2. The use of WAWF-RA electronic form and invoice are in accordance with DFARS Appendix F.
- 3. In addition to the requirements of the Prompt Payment clause of the contract, the contractor shall cite on each invoice the contract line item (CLIN); the contract subline item number (SUBCLIN), if applicable; the accounting classification reference number (ACRN), and the payment terms.
  - 4. The contractor shall prepare either:
     a separate invoice for each activity designated to receive the supplies or services or a consolidated invoice covering all shipments delivered under an individual order.
- 5. If acceptance is at origin, the contractor shall submit the WAWF-RA electronic form or other acceptance verification directly to the designated payment office.
- 6. If acceptance is at destination, the consignee will forward acceptance verification to the designated payment office.
- G-3 Delegation of Authority for Contract Administration

DCMA Detroit, is hereby designated as the Contracting Officer's authorized representative for administering this contract in accordance with current directives.

(end of clause)

- G-4 Contracting Officer's Representative (COR)
  - (a) Performance of work under this contract shall be subject to the technical direction of Neil Hoff, SPAWAR Systems Center Pacific (Code 55450),4297 Pacific Highway, Bldg. 7, San Diego, CA 92110-5000, Phone: 619-553-9402, Email: neil.hoff@navy.mil. Such technical direction includes those instructions to the Contractor necessary to accomplish the Statement of Work. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or to change the specifications of the contract.
  - (b) Technical direction shall not include any direction which:
    - (1) Constitutes additional work outside the scope of work;

- (2) Constitutes a change as defined in Section I contract clause entitled "Changes";
- (3) In any manner causes an increase or decrease in the total estimated cost or the time required for contract performance; or
- (4) Changes any of the stated terms, conditions, or specifications of the contract. (end of clause)

# G-5 Payment Instructions for Multiple Accounting Classification Citations

Payments under contract line items funded by multiple accounting classification citations shall be made from the earliest available fiscal year funding sources. The earliest assigned ACRN must be fully disbursed before making disbursements from a succeeding ACRN.

(end of clause)

# G-6 Incremental Funding

This contract shall be subject to incremental funding with \$21,746,737 presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor's performance through 15 JUN 2010. Except in accordance with the Section I clause FAR 52.232-22, "Limitation of Funds," no legal liability of the part of the Government for payment of any money in excess of \$21,746,737 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract. (end of clause)

#### G-7 Payment of Cost and Fee

As consideration for the proper performance of work required under this contract, the Contractor shall be paid as follows:

- (1) Costs, as provided for under Section I contract clause titled "Allowable Cost and Payment" not to exceed the amount set forth as "Total Estimated Cost" in Section B, and subject further to those Section I clauses entitled "Limitation of Cost" or "Limitation of Funds".
- (2) A fixed fee in the amount set forth as "Fixed Fee" in Section B, in accordance with the Section I contract clause entitled "Fixed Fee". The Contractor may bill on each invoice the amount of the fixed fee bearing the same percentage to the total fixed fee as the amount of cost billed bears to the total estimated cost. (end of clause)

### G-8 Payment Terms for Limited User Test (LUT) Options

Performance based payments or progress payments will be determined upon exrecise of Option CLIN 0002. (end of clause)

### Section H - Special Contract Requirements

#### CLAUSES INCORPORATED BY FULL TEXT

#### H-1 Contracting Officer

Notwithstanding any other provision of this contract, the Contracting Officer is the only individual authorized to redirect the effort or in any way amend or modify any of the terms of this contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statement of work, a modification must be issued in writing and signed by the Contracting Officer.

(end of clause)

#### H-2 Type of Contract

This is a Cost Plus Fixed Fee (CPFF) contract. Options are provided as CPFF (CLINs 0003 and 0005) and Firm Fixed Price (FFP) (CLINs 0002 and 0004). (end of clause)

#### H-3 Public Release or Dissemination of Information

- (a) There shall be no dissemination or publication, except within and between the Contractor and any subcontractors, of information developed under this contract or contained in the reports to be furnished pursuant to this contract without prior written approval of the DARPA Technical Information Officer (DARPA/TIO). All technical reports will be given proper review by appropriate authority to determine which Distribution Statement is to be applied prior to the initial distribution of these reports by the Contractor. Papers resulting from unclassified contracted fundamental research are exempt from prepublication controls and this review requirement, pursuant to DoD Instruction 5230.27 dated October 6, 1987.
- (b) When submitting material for written approval for open publication as described in subparagraph (a) above, the Contractor must submit a request for public release request to the DARPA TIO and include the following information: 1) Document Information: document title, document author, short plain-language description of technology discussed in the material (approx 30 words), number of pages (or minutes of video) and document type (briefing, report, abstract, article, or paper); 2) Event Information: event type (conference, principle investigator meeting, article or paper), event date, desired date for DARPA's approval; 3) DARPA Sponsor: DARPA Program Manager, DARPA office, and contract number; and 4) Contractor's Information: POC name, e-mail and phone. Allow four weeks for processing; due dates under four weeks require a justification. Unusual electronic file formats may require additional processing time. Requests can be sent either via e-mail to tio@darpa.mil or via 3701 North Fairfax Drive, Arlington VA 22203-1714, telephone (571) 218-4235. Refer to www.darpa.mil/tio for information about DARPA's public release process.
  (end of clause)

#### H-4 Key Personnel

(a) The Contractor shall notify the Contracting Officer prior to making any change in key personnel. Key personnel are defined as follows:

(b)(4)		

(b)(4)

- (1) Personnel identified above as key individuals to be assigned for participation in the performance of the contract:
- (2) Personnel listed above were submitted with the proposal; or
- (3) Individuals who are designated as key personnel by agreement of the Government and the Contractor during negotiations.
- (b) The Contractor must demonstrate that the qualifications of the prospective personnel are equal to or better than the qualifications of the personnel being replaced. Notwithstanding any of the foregoing provisions, key personnel shall be furnished unless the Contractor has demonstrated to the satisfaction of the COR that the qualifications of the proposed substitute personnel are equal to or better than the qualifications of the personnel being replaced.

(end of clause)

### H-5 Restrictions on Printing

Unless otherwise authorized in writing by the Contracting Officer, reports, data, or other written material produced using funds provided by this contract and submitted hereunder shall be reproduced only by duplicating processes and shall not exceed 5,000 single page reports or a total of 25,000 pages of a multiple-page report. These restrictions do not preclude the writing, editing, preparation of manuscript or reproducible copy of related illustrative materials if required as part of this contract, or incidental printing such as forms or materials necessary to be used by the Contractor to respond to the terms of the contract. (end of clause)

#### H-6 Contractor Representations and Certifications

The Contractor's (a) ORCA Submission valid for the period of 21 JAN 2009 through 21 JAN 2010, and (b) Representations and Certifications dated 26 JUN 2009 are incorporated herein by reference. (end of clause)

#### H-7 Insurance Schedule

The Contractor shall maintain the types of insurance listed in FAR 28.307-2 (a), (b) and (c), with the minimum amounts of liability indicated therein. The types of insurance coverage listed in paragraphs (d) and (e) shall also be maintained when applicable. (end of clause)

### H-8 Travel

- (a) Reimbursement for travel-related expenses shall be in accordance with the Contractor's approved travel policy. The Federal Travel Regulations, Joint Travel Regulations (JTR), and Standardized Regulations as stated in FAR 31.205-46 will be used as a guide in determining reasonableness of per diem costs. Costs for travel shall be allowable subject to the provisions of FAR 31.205-46.
- (b) In connection with direct charge to the contract of travel-related expenses, the Contractor shall hold travel to the minimum required to meet the objectives of the contract, and substantial deviations from the amount of travel agreed to during contract negotiation shall not be made without the authorization of the Contracting Officer.

When applicable, the Contractor shall notify the COR of proposed travel of an employee beyond that agreed to during negotiations.

- (c) Approval of the Contracting Officer shall be obtained in advance for attendance by personnel at training courses, seminars, and other meetings not directly related to contract performance if the costs for the courses, seminars, and other meetings are charged to the contract.
- (d) All foreign travel shall be authorized and approved in advance, in writing, by the Contracting Officer. Request for such travel must be submitted to the Contracting Officer at least thirty (30) days in advance of traveler's anticipated departure date, and shall include traveler's itinerary of United States Flag Air Carriers.

(end of clause)

#### H-9 Metric System

- (a) The Defense Advanced Research Projects Agency (DARPA) will consider the use of the metric system in all of its activities consistent with operational, economical, technical and safety requirements.
- (b) The metric system will be considered for use in all new designs. When it is deemed not to be in the best interest of the DoD to provide metric design, justification shall be provided.
- (c) Physical and operational interfaces between metric items and U.S. customary items will be designed to assure that interchangeability and interoperability will not be affected.
- (d) Existing designs dimensioned in U.S. customary units will be converted to metric units only if determined to be necessary or advantageous. Unnecessary retrofit of existing systems with new metric components will be avoided where both the new metric and existing units are interchangeable and interoperable. Normally, the system of measurement in which an item is originally designed will be retained for the life of the item.
- (e) During the metric transition phase hybrid metric and U.S. customary designs will be necessary and acceptable. Material components, parts, subassemblies, and semi-fabricated material, which are of adequate or when it is otherwise specifically determined to be in the best interest of the Department of Defense. Bulk materials will be specified and accepted in metric units when it is expedient or economical to do so.
- (f) Technical reports, studies, and position papers, (except those pertaining to items dimensioned in U.S. customary units) will include metric units of measurement in addition to or in lieu of U.S. customary units. With respect to existing contracts, this requirement applies only if such documentation can be obtained without an increase in contract costs.
- (g) Use of the dual dimensions (i.e., both metric and U.S. customary dimensions) on drawings will be avoided unless it is determined in specific instances that such usage will be beneficial. However, the use of tables on the document to translate dimensions from one system of measurement to the other is acceptable. (end of clause)

#### H-10 Consent to Subcontract

(a) Pursuant to the clause of the General Provisions entitled "Subcontracts (JUN 2007)," FAR 52.244-2(j), the Contracting Officer hereby consents to the placement of subcontract(s) with the following firm(s)/consultant(s) at the ceiling amounts specified:

NAME	TOTAL AMOUNT
(b)(4)	As Proposed
	As Proposed



As Proposed As Proposed As Proposed As Proposed

(b) Approval must be obtained from the Administrative Contracting Officer to increase the use or number of subcontractors from the level established in subparagraph a. (end of clause)

#### H-11 Pre-contract Costs

The extent of allowability of costs incurred by the Contractor prior to the effective date of the contract shall be governed by the advance agreement listed in Section J as Attachment 5. (end of clause)

H-12 RESERVED (end of clause)

#### H-13 Government Furnished Property/Facilities and Services

In accordance with the Section I contract clause entitled "Government Property", the following property, facilities and/or services shall be provided for use in the performance of this contract.

Need Date QTY PROPERTY NOMENCLATURE

**DELIVERY TO** 

See Statement of Work attached to this contract as Attachment 1

Contractor shall provide a preliminary request for GFE two (2) weeks after contract award and any additional GFE identified in the SOW will be requested thirty (30) days prior to the need date. (end of clause)

#### H-14 Contractor-Acquired Property (Facilities)

(a) The Contractor is authorized to acquire the following items of facilities which are needed to accomplish this contract:

Items To Be Acquired

**Estimated Cost** 

#### NONE AUTHORIZED AS OF THE EFFECTIVE DATE OF THIS CONTRACT

#### Total

- (b) The costs incurred by the Contractor in acquiring the facilities listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the facilities does not exceed \$0. The Contractor shall have no obligation to acquire facilities and the Government shall have no obligation to reimburse any amount for facilities in excess of the amount set forth above unless the contract is amended to increase this amount.
- (c) The facilities listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1, incorporated by reference in Section I.

- (d) The Contractor shall not use Contractor-acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer.
  (end of clause)
- H-15 Contractor-Acquired Property (Special Test Equipment)
  - (a) The Contractor is authorized to acquire the following items of special test equipment which are needed to accomplish this contract:

Items To Be Acquired

**Estimated Cost** 

### NONE AUTHORIZED AS OF THE EFFECTIVE DATE OF THIS CONTRACT

#### Total

- (b) The costs incurred by the Contractor in acquiring the special test equipment listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the special test equipment does not exceed \$0. The Contractor shall have no obligation to acquire special test equipment and the Government shall have no obligation to reimburse any amount for special test equipment in excess of the amount set forth above unless the contract is amended to increase this amount.
- (c) The special test equipment listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1, incorporated by reference in Section I.
- (d) The Contractor shall not use Contractor-acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer. (end of clause)
- H-16 Contractor-Acquired Property (Special Tooling)
  - (a) The Contractor is authorized to acquire the following items of special tooling which are needed to accomplish this contract:

Items To Be Acquired

**Estimated Cost** 

### NONE AUTHORIZED AS OF THE EFFECTIVE DATE OF THIS CONTRACT

#### Total

- (b) The costs incurred by the Contractor in acquiring the special tooling listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the special tooling does not exceed \$0. The Contractor shall have no obligation to acquire special tooling and the Government shall have no obligation to reimburse any amount for special tooling in excess of the amount set forth above unless the contract is amended to increase this amount.
- (c) The special tooling listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1, incorporated by reference in Section I.
- (d) The Contractor shall not use Contractor-acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer. (end of clause)
- H-17 Contractor Acquired Property (IT)

(a) Performance of this contract will require use of the information technology (IT) resources listed below, acquisition of which (or equivalent) is hereby authorized:

**ITEM** 

#### TOTAL AMOUNT

#### NONE AUTHORIZED AS OF THE EFFECTIVE DATE OF THIS CONTRACT

- (b) The costs incurred by the Contractor in acquiring the IT listed in paragraph (1.) above shall be considered allowable costs under the contract provided that the total net amount of the IT does not exceed \$0. The Contractor shall have no obligation to acquire IT and the Government shall have no obligation to reimburse any amount for IT in excess of the amount set forth above unless the contract is modified to increase this amount.
- (c) The IT resources listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1, incorporated in Section I.
- (d) The Contractor shall not use Contractor acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer.

(end of clause)

# H-18 Proprietary Technical Data and Computer Software

Any deliverable technical data or computer software developed or generated at private expense and considered to be proprietary by the Contractor or subcontractors shall be delivered in accordance with DFARS 252.227-7013 and 252.227-7014. A list of such data and/or software is incorporated into the contract as Attachment No. 4. (end of clause)

### H-19 Technical Data - Withholding of Payment

- (a) If technical data specified to be delivered under this contract, is not delivered within the time specified by this contract or is deficient upon delivery (including having restrictive markings not identified in the list described in the clause at 252.227-7013(e)(2) or 252.227-7018(e)(2) of this contract), the Contracting Officer may until such data is accepted by the Government, withhold payment to the Contractor in the amount of One Hundred Thousand Dollars (\$100,000). Payments shall not be withheld nor any other action taken pursuant to this paragraph when the Contractor's failure to make timely delivery or to deliver such data without deficiencies arises out of causes beyond the control and without the fault or negligence of the Contractor.
- (b) The withholding of any amount or subsequent payment to the Contractor shall not be construed as a waiver of any rights accruing to the Government under this contract.

#### H-20 Consultants

(a) The contractor is authorized to use the following consultants to the extent indicated:

Name

No. of Hours

Rate

**Total Amount** 

NO CONSULTANTS AUTHORIZED AS OF THE EFFECTIVE DATE OF THIS CONTRACT.

(b) Approval must be obtained from the Administrative Contracting Officer to increase the use of consultants from the level estimated in subparagraph (1.).

(end of clause)

H-21 (RESERVED) (end of clause)

### H-22 Export Control Clause

Should this project develop beyond fundamental research (basic and applied research ordinarily published and shared broadly within the scientific community) with military or dual-use applications the following apply:

- (a) The contractor shall comply with all U. S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of this contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of (including deemed exports) hardware, technical data, and software, or for the provision of technical assistance.
- (b) The Contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of this contract, including instances where the work is to be performed on-site at any Government installation (whether in or outside the United States), where the foreign person will have access to export-controlled technical data or software.
- (c) The Contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.
- (d) The Contractor shall be responsible for ensuring that the provisions of this clause apply to its subcontractors.

#### H-23 Contractor Code of Business Ethics

The "agency Office of the Inspector General" referenced in FAR clause 52.203-13, "Contractor Code of Business Ethics" (DEC 2008) contained in Section I of this Contract, shall be the Department of Defense Office of the Inspector General (DoD OIG). Contact information is as follows:

Office of the Inspector General United States Department of Defense Investigative Policy and Oversight Contract Disclosure Program 400 Army Navy Drive, Suite 1037 Arlington, VA 22202-4704 Toll Free Telephone: 866-429-8011 (end of clause)

#### H-24 Invention Disclosure and Reports

All written communications required for invention disclosures and reports shall be submitted to the Administrative Contracting Officer (ACO). All unclassified required reporting shall be accomplished using the i-Edison.gov reporting website (<a href="https://s-edison.info.nih.gov/iEdison/">https://s-edison.info.nih.gov/iEdison/</a>). (end of clause)

#### H-25 Security

Military Security requirements in the performance of this contract shall be maintained in accordance with the security provisions required by the DD Form 254, Contract Security Classification Specification, Attachment No. 6 hereto. The highest classification involved in the performance of this effort is Secret. The contract is unclassified. (end of clause)

# Section I - Contract Clauses

# CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6		SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or	JAN 1997
	Improper Activity	
52.203-10		JAN 1997
52.203-12		SEP 2007
	Transactions	
52.203-13	Contractor Code of Business Ethics and Conduct	DEC 2008
52.203-14	Display of Hotline Poster(s)	DEC 2007
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.209-6	Protecting the Government's Interest When Subcontracting	SEP 2006
	With Contractors Debarred, Suspended, or Proposed for	
	Debarment	
52.211-5	Material Requirements	AUG 2000
52.215-2	Audit and RecordsNegotiation	MAR 2009
52.215-8	Order of PrecedenceUniform Contract Format	OCT 1997
52.215-9	Changes or Additions to Make-or-Buy Program	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-13	Subcontractor Cost or Pricing DataModifications	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-16	Facilities Capital Cost of Money	JUN 2003
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits	
	(PRB) Other than Pensions	
52.215-19	Notification of Ownership Changes	OCT 1997
52.215-21	Requirements for Cost or Pricing Data or Information Other	OCT 1997
	Than Cost or Pricing DataModifications	
52.216-7	Allowable Cost And Payment	DEC 2002
52.216-8	Fixed Fee	MAR 1997
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-9	Small Business Subcontracting Plan	APR 2008
52.219-28	Post-Award Small Business Program Rerepresentation	APR 2009
52.222-2	Payment For Overtime Premiums	JUL 1990
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime	JUL 2005
	Compensation	
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans	
	the Vietnam Era, and Other Eligible Veterans	
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veteran	
	Of The Vietnam Era, and Other Eligible Veterans	

52.222-39	Notification of Employee Rights Concerning Payment of Union Dues or Fees	DEC 2004
52.222-50		FEB 2009
52.223-6		MAY 2001
52.223-13	Certification of Toxic Chemical Release Reporting	AUG 2003
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.226-1	Utilization Of Indian Organizations And Indian-Owned	JUN 2000
	Economic Enterprises	
52.227-1 Alt I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.228-7	InsuranceLiability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	OCT 2008
52.230-4	Disclosure and Consistency of Cost Accounting Practices for	OCT 2008
	Contracts Awarded to Foreign Concerns	
52.230-6	Administration of Cost Accounting Standards	MAR 2008
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	OCT 2008
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-25	Prompt Payment	OCT 2008
52.232-33	Payment by Electronic Funds TransferCentral Contractor	OCT 2003
32.232-33	Registration	001 2003
52.233-1	Disputes	JUL 2002
52.233-2	Service Of Protest	SEP 2006
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2 Alt V	ChangesCost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.243-2 Att V	Subcontracts	JUN 2007
		DEC 1996
52.244-5	Competition In Subcontracting	
52.244-6	Subcontracts for Commercial Items	MAR 2009
52.245-1	Government Property	JUN 2007
52.245-9	Use And Charges	JUN 2007
52.246-23	Limitation Of Liability	FEB 1997
52.246-24	Limitation Of LiabilityHigh-Value Items	FEB 1997
52.247-67	Submission Of Transportation Documents For Audit	FEB 2006
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	JAN 2009
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defens Contract-Related Felonies	e- DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
	A Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7006	Billing Instructions	OCT 2005

252.204-7009	Requirements Regarding Potential Access to Export- Controlled Items	JUL 2008
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By	DEC 2006
232.203-7004	The Government of a Terrorist Country	DEC 2000
252.211-7000		DEC 1991
252.211-7003		AUG 2008
252.211-7007		NOV 2008
232.211-7007	Item Unique Identification (IUID) Registry	140 7 2008
252.215-7000		DEC 1991
252.215-7000		DEC 2006
252.215-7002		MAY 2008
252.219-7004	Small Business Subcontracting Plan (DOD Contracts)	APR 2007
252.223-7002		MAY 1994
252.223-7004	Drug Free Work Force	SEP 1988
252.225-7001	Buy American Act And Balance Of Payments Program	JAN 2009
252.225-7001	Qualifying Country Sources As Subcontractors	APR 2003
252.225-7012	Preference For Certain Domestic Commodities	DEC 2008
252.225-7013	Duty-Free Entry	OCT 2006
252.225-7031	Secondary Arab Boycott Of Israel	JUN 2005
252.227-7000	Non-estoppel	OCT 1966
252.227-7013	Rights in Technical DataNoncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and	JUN 1995
	Noncommercial Computer Software Documentation	
252.227-7015	Technical DataCommercial Items	NOV 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted RestrictionsComputer Software	JUN 1995
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical DataWithholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.227-7038	Patent RightsOwnership by the Contractor (Large Business)	DEC 2007
252.227-7039	PatentsReporting Of Subject Inventions	APR 1990
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving	MAR 2008
	Reports	
252.232-7010	Levies on Contract Payments	<b>DEC 2006</b>
252.234-7001	Notice of Earned Value Management System	APR 2008
252.235-7010	Acknowledgment of Support and Disclaimer	MAY 1995
252.235-7011	Final Scientific or Technical Report	NOV 2004
252.242-7004	Material Management And Accounting System	NOV 2005
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial	JAN 2009
	Components (DoD Contracts)	
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

# CLAUSES INCORPORATED BY FULL TEXT

# 52.247-1 COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)

When the Contracting Officer authorizes supplies to be shipped on a commercial bill of lading and the Contractor will be reimbursed these transportation costs as direct allowable costs, the Contractor shall ensure before shipment is made that the commercial shipping documents are annotated with either of the following notations, as appropriate:

(a) If the Government is shown as the consignor or the consignee, the annotation shall be:
"Transportation is for the and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the Government."
(b) If the Government is not shown as the consignor or the consignee, the annotation shall be:
"Transportation is for the and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by the Government, pursuant to cost-reimbursement contract no This may be confirmed by contacting"
(End of clause)
52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)
This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):
http://farsite.hill.af.mil
(End of clause)
52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)
(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation (48 CFR Part 201 et seq.) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.
(End of clause)
252.225-7006 QUARTERLY REPORTING OF ACTUAL CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES (MAY 2007)
(a) Definition. United States, as used in this clause, means the 50 States, the District of Columbia, and outlying areas.
(b) Reporting requirement. Except as provided in paragraph (c) of this clause, within 10 days after the end of each quarter of the Government's fiscal year, the Contractor shall report any subcontract, purchase, or intracompany transfer that
(1) Will be or has been performed outside the United States;
(2) Exceeds the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation; and

(3) Has not been identified in a report for a previous quarter.

- (c) Exception. Reporting under this clause is not required if-
- (1) A foreign place of performance is the principal place of performance of the contract; and
- (2) The Contractor specified the foreign place of performance in its offer.
- (d) Submission of reports. The Contractor shall submit the reports required by this clause to: Deputy Director of Defense Procurement and Acquisition Policy (Contract Policy and International Contracting), OUSD(AT&L)DPAP(CPIC), Washington, DC 20301-3060.
- (e) Report format. The Contractor--
- (1) Shall submit reports using--
- (i) DD Form 2139, Report of Contract Performance Outside the United States; or
- (ii) A computer-generated report that contains all information required by DD Form 2139; and
- (2) May obtain copies of DD Form 2139 from the Contracting Officer or via the Internet at http://www.dtic.mil/whs/directives/infomgt/forms/formsprogram.htm.
- (f) Subcontracts. The Contractor--
- (1) Shall include the substance of this clause in all first-tier subcontracts exceeding \$550,000, except those for commercial items, construction, ores, natural gases, utilities, petroleum products and crudes, timber (logs), or subsistence;
- (2) Shall provide the number of this contract to its subcontractors required to submit reports under this clause; and
- (3) Shall require the subcontractor, with respect to performance of its subcontract, to comply with the requirements directed to the Contractor in paragraphs (b) through (e) of this clause.

(End of clause)

# Section J - List of Documents, Exhibits and Other Attachments

# Exhibit/Attachment Table of Contents

Attachment 6

DOCUMENT TYPE	DESCRIPTION
Attachment 1	Attachment 1- Statement of Work (SOW)
Attachment 2	Attachment 2 - CDRLs
Attachment 3	Attachment 3 - Program Metrics
Attachment 4	Attachment 4 - Asserted Rights
Attachment 5	Attachment 5 - Pre-Contract Cost Authorization

Attachment 6 - DD254

# Section III A – Statement of Work for MAINGATE

# 1.0 SCOPE

The objective of the Mobile Ad hoc Interoperability Network GATEway (MAINGATE) program is to develop the next generation Network Centric Radio System (NCRS) with additional capabilities and an assured, affordable unit price to the user. MAINGATE will be a connection point that allows a multitude of users, employing a heterogeneous set of radio technologies (both proprietary and nonproprietary) on different subnets, to attach to and communicate through an IP Network tolerant to high latency and packet loss. The technologies developed for the program will permit affordable, tactical, real-time, high fidelity video, data, and voice services to be deployed in a networked environment to support tactical operations in either maneuver or dismounted operations. As a result of this effort, DARPA expects a clear demonstration of advanced mobile ad hoc network (MANET) gateway technology with basic Spatial Diversity MIMO capability and Dynamic Spectrum Access (DSA) that allows coexistence with communications and CREW systems. It will incorporate a Wireless IP-capable Network (WIPN), which provides interconnectivity between nodes bridging heterogeneous mixtures of radio networks. The output of this program will be a demonstrated suite of hardware and software components that can be configured for specific DoD, coalition, and first responders/public safety requirements and provide the threshold overall information rate to the user, defined as the application payload information rate. The specific program requirements are in Appendix A of the Broad Agency Announcement and take precedence over all other technical information provided in this SOW. Appendix A of the BAA is incorporated by reference. Each metric in Appendix A will be considered fully compliant only if it can be achieved concurrently with all other fully compliant metrics. All fully compliant metrics should be considered to be pre-conditions for meeting other metrics.

This Statement of Work (SOW) defines tasks and responsibilities of the Raytheon Team (hereinafter "contractor") required to complete the defined deliverables for Defense Advanced Research Projects Agency (DARPA) and their selected agent, the Space and Naval Warfare Systems Command (SPAWAR) System Center Pacific (SSC PAC), (hereinafter "Government") as part of the Mobile Ad hoc Interoperability Network GATEway (MAINGATE) basic award (Advanced Concept Technology (ACT) phase), CONUS Limited User Testing Production and Test Support (Options 1 and 2), and OCONUS LUT Production and Test Support (Options 3 and 4). The Contract Line Item Numbers (CLINS) associated with each option are listed in Figure 1.0. The Contractor shall provide the engineering and management services as described in this SOW for development, testing, and production of the MAINGATE hardware, software, and documentation.

# Figure 1.0: Option and CLIN Titles for MAINGATE Program

# Basic: Advanced Concept Technology (ACT) phase

CLIN 0001 - Advanced Concept Technology (ACT) phase including quantity 20 MAINGATE
Node systems with Spatial Diversity Multiple Input / Multiple Output (SD MIMO) and
Next Generation Dynamic Spectrum Access (XG) functionality.\*

# Option 1: Preproduction units

CLIN 0002 - Quantity MAINGATE Node systems with quantity 200 operator consoles and quantity 200 AC power adapters.\*\*

# Option 2: CONUS Test Support

CLIN 0003 - Support and Training (including materials) to CONUS Demonstration.

Option 3: Preproduction units

CLIN 0004 - Quantity MAINGATE Node systems with quantity 200 operator consoles and quantity 200 AC power adapters for vehicular installations.\*\*

# **Option 4: OCONUS Test Support**

CLIN 0005 - Support and Training (utilizing CONUS materials) to OCONUS Demonstration.

- \* This CLIN includes an additional 5 units beyond the 15 to support lab integration/support. The 5 additional units will be lab assets that may have been altered, modified or degraded during testing. These units will be operational for lab use but may not be ruggedized for all environmental and field conditions. The ACT MAINGATE nodes and ancillaries include the following:
  - 2-channel WIPN (dual RF, BCP, NCP hardware)
  - Gateway
  - Operator console
  - Power Adapter
  - GPS, Wi-Fi, Cell, and WIPN Antennas
  - Installation cables for power and antennas
  - Any legacy external radios and cables purchased on the contract
- \*\* The LUT MAINGATE nodes and ancillaries include the following:
  - 2-channel WIPN (dual RF, BCP, NCP hardware)
  - Gateway
  - Operator console (qty. 200)
  - A/C Power Adapter (qty. 200)

# 2.0 APPLICABLE DOCUMENTS

The documents listed hereunder form a part of the SOW and are provided for guidance. In the event of conflict between the documents referenced and this SOW, the SOW takes precedence.

#### 2.1 Government Documents

Document No.	Document Description Document Date		
DARPA-BAA08-21	Mobile Addition Intelligence Dilley Network (JATE) or (MAT WATE)	30 May 2013	
	Broad Agency Amnouncement (BAA)		

### 2.2 Non-Government Documents

Document No.	Document Description	Document Date
AS 9100	Quality Management System	2004 (Revision B)
Ela Subdird 169A	- Nutrional Generosas Standard for Councilianion -	23 Turker 2004
	Menagement	

# 3.0 REQUIREMENTS

# 3.1 Program Management (Raytheon)

The Contractor shall provide overall management and technical direction, including but not limited to, program planning, management control and reporting, risk and opportunity management, quality management, schedule management and control, Earned Value Management (EVM), configuration management and control, data management, coordination, reporting and administration to ensure the performance of the tasks delineated in this SOW. The program management and controls system employed must be sufficient to provide the Government with in-depth, accurate, and timely visibility into the Contractor's technical, schedule and cost performance and status by milestones in accordance with this SOW.

The Contractor shall identify to the Government a single individual as the Program Manager for the work required. The identified Program Manager shall be responsible for ensuring compliance with the requirements of this SOW. This individual's name shall be supplied to the Government as the point of contact for all technical and programmatic details. The Program Manager shall ensure that the personnel and facilities necessary for the performance of the contract are assigned and made available at the times and places necessary to meet the established schedule. Program Manager support is required for all contract CLINs. This includes, but is not limited to the following:

- Maintain the Work Breakdown Structure (WBS)
- Maintain the Integrated Master Plan (IMP) and Integrated Master Schedule (IMS)
- Function as the day-to-day point of contact to Government
- Organize and define internal responsibilities
- Assure that program milestones are met
- Assure that technical milestones are met
- Assure compliance with product quality requirements,
- Assure program control and schedule (Earned Value Management System (EVMS))
- Conduct program status meetings with the Government
- Ensure metrics are collected and reported
- Report progress on a monthly basis as described
- Ensure risks are identified and appropriate action taken (Risk Management).

• Work with the Government to submit necessary export licenses to market and sell to NATO countries (per CDRL A031).

# 3.1.1 Integrated Master Plan (IMP) (Raytheon)

The Contractor shall develop an IMP to describe how the program shall be accomplished. The IMP shall be a table organized around program Significant Events (SE) that are the transition points between major program activities. Each Significant Event is subordinated by Significant Accomplishments (SA), each of which is supported by a specific Accomplishment Criteria (AC). The IMP is directly traceable to the WBS and SOW and provides the primary input into the development of the IMS which resource loads the tasks by date and duration. The IMP shall be maintained during the entire program. The IMP, summarized below, provides exit criteria for each task in the SOW.

MAINGATE EVENT DICTIONARY			
Event Code/Title	Event Purpose, Expected Results and Exit Criteria		
Event A Contract Award	Objective:  Marks the beginning of program execution  Establishes a time reference for the beginning of the project.  Expected Results:  Contract modification authorizing work to proceed		
Event B  Post Award  Baseline Review  4th Month	Objective:  Ensure joint understanding of the contract, objectives and requirements.  Approach:  Review of MAINGATE Program Master Schedule  Review of contract requirements and objectives  Review of contract data requirements  Review of Integrated Master Plan  Review of other available program plans  Expected Results:  Mutual concurrence with approach to program execution  Exit Criteria:  Satisfactory mutual understanding of contract objectives and program plan achieved  Contractor program plans consistent with contract objectives  GFE/GFI requirements mutually acceptable		
Event C  Architectural Review 6 <sup>th</sup> Month	Objective:  Ensure joint understanding of the architecture design and test strategy.  Approach:  Review of MAINGATE Program Master Schedule  Review of Integrated Master Plan  Review Architecture design  Review Test strategy  Expected Results:  Mutual concurrence with system architecture  Exit Criteria:  Mutual understanding of system architecture  Mutual understanding of test/demo strategy  Issues identified and actions assigned		

	MAINGATE EVENT DICTIONARY
Event Code/Title	Event Purpose, Expected Results and Exit Criteria
Event D  Interim Demonstration #1 10 <sup>th</sup> Month	<ul> <li>Objective:</li> <li>Establish that the incremental system design is maturing according to the plan.</li> <li>Approach:</li> <li>Review the Phase Requirements and Architecture for Interim Demo #1</li> <li>Review the Test and Evaluation Plan for Interim Demo #1</li> <li>Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)</li> <li>Expected Results:</li> <li>Concurrence that incremental system design is maturing</li> <li>Agreement with Allocated Baseline structure</li> <li>Approval to proceed with the Interim Demo #1</li> <li>Exit Criteria:</li> <li>Phase Requirements and Architecture approved</li> <li>Test and Evaluation Plan approved</li> <li>Interim Demo #1 conducted</li> <li>Test report released</li> <li>Action items captured and assigned</li> </ul>
Event E Interum Demonstration #2 13 <sup>th</sup> Month	Objective:  Establish that the incremental system design is maturing according to the plan.  Approach:  Review the Phase Requirements and Architecture for Interim Demo #2  Review the Test and Evaluation Plan for Interim Demo #2  Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)  Expected Results:  Concurrence that incremental system design is maturing  Agreement with Allocated Baseline structure  Approval to proceed with the Interim Demo #2  Exit Criteria:  Phase Requirements and Architecture approved  Test and Evaluation Plan approved  Interim Demo #2 conducted  Test report released  Action items captured and assigned
Event F  Final Demonstration 15 <sup>th</sup> Month	Objective:  Establish that the incremental system design is ready for LUT production Approach:  Review the Phase Requirements and Architecture for Final Demo  Review the Test and Evaluation Plan for Final Demo  Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)  Expected Results:  Concurrence that incremental system design is ready for LUT production  Agreement with Allocated Baseline structure  Approval to proceed with the Final Demo

MAINGATE EVENT DICTIONARY				
Event Code/Title	ent Code/Title Event Purpose, Expected Results and Exit Criteria			
	Phase Requirements and Architecture approved Test and Evaluation Plan approved Final Demo conducted Test report released			

# 3.1.2 Integrated Master Schedule (IMS) (Raytheon)

The Contractor shall implement and maintain the agreed-upon IMS (CDRL A003) that provides sufficient detail and insight to allow the Government to track the overall program (e.g. all CLINs) schedule. All tasks/activities in the IMS are logically linked, showing predecessor/successor relationships and critical path. The activities and tasks defined are sufficient to account for the Contractor's program under contract, and as a minimum, integrate all required data items, testing, hardware deliverables and major program events/reviews, contract milestones, technical milestones, key decision points and program events requiring Government participation. The IMS shall be maintained during the entire program with updates provided monthly along with CDRL A008.

# 3.1.3 Work Breakdown Structure (WBS) (Raytheon)

The Contractor shall provide a multi-level WBS. The Contractor WBS (CWBS) (CDRL A002) shall represent the total contract SOW (e.g. all CLINs). The Contractor shall use the WBS for planning, managing, and reporting programs status and projections for cost, schedule, and technical achievements. No changes can be made at or above the reporting level of the WBS (defined in CDRL A002) without the Government's concurrence. The CWBS shall be base lined at the Program Kickoff Meeting or by a mutually agreed to date. Each CLIN shall utilize distinct CWBS elements.

# 3.1.4 Reviews/Meetings/Conferences (Raytheon)

The Contractor shall support all planned Government attended reviews/meetings/conferences (hereinafter referred to as reviews) listed in **Table 3.1.4-1**. Specific dates shall be specified in the IMS to the extent they are known at the time of the proposal. Thereafter, the IMS shall be updated as required to reflect changes to the review/meeting schedule. Each schedule meeting shall be preceded by publication of an agenda (CDRL A005) and 'read ahead' presentation materials (CDRL A006). The contractor is responsible for capturing action items and decisions in summary minutes for each meeting (CDRL A007).

Table 3.1.4-1.	Summary o	of Program	Reviews.	/Meetinas	(CLIN 0001)
1 4214 0.117 1.	ourring y	or r rounding	, , , , , , , , , ,	THE COLLINGS	<del>                                    </del>

Name of Reviews/Meetings	Frequency	SOW Paragraph
Program Kickoff	Once	3.1.4
Program Reviews	Monthly Teleconference	3.1.4
Architecture Review and Interim Demo 1 Readiness Review	Once	3.9.4, 3.9.5.1

Name of Reviews/Meetings	Frequency	SOW Paragraph
Architecture Review and Interim Deno 2 Regulmese Review	Onte	3.9.3.(y.a.)
Architecture Review and Final Demo Readiness Review	Once	3.9.4, 3.9.5.1

The Contractor shall hold a Program Kickoff meeting (CDRL A001). The purpose of the Program Kickoff meeting is to review the Integrated Master Plan (IMP), the Integrated Master Schedule (IMS) (CDRL A003), the Contractor Work Breakdown Structure (CWBS) (CDRL A002) and the SOW for MAINGATE as well as the system design and program approach.

The Contractor shall be responsible for submitting a monthly status report (CDRL A008), and associated cost schedule and status reporting (CDRL A009) information including an updated Integrated Master Schedule (IMS) (CDRL A003). The Contractor shall also be responsible for attending program review teleconferences as mutually agreed upon with the Government. Program Review teleconferences shall occur monthly, concurrent with the delivery of the monthly status report. The Contractor shall be prepared during all Program Review teleconferences to address all contract performance issues. The Program Reviews provide a working management level forum to identify, discuss, and resolve issues that could affect the overall system from achieving the contract requirements.

Stoplight charts may be used to summarize the current status. Minutes and action items shall be taken by the Contractor and reviewed prior to the conclusion of each meeting and issued per CDRL A007. Items to be discussed at the Monthly Program Reviews (MPR) include, but not limited to the following:

- Earned value and Schedule status/progress
- Risk management and mitigation status
- Review of Demonstration Issues
- GFE/GFI need dates
- Data Item Delivery Review
- Metrics
- Review of last month's Action Items and open action item status
- Review of Technical Issues.

# 3.1.5 Risk Management (All)

The Contractor shall provide a Risk Management Plan (RMP) (CDRL A004) that details the risk management process for the program. It shall identify the program risk manager and the membership of the Risk Management Working Group (RMWG). The RMWG shall meet monthly or as needed and provide risk progress status inputs into the monthly progress status report (CDRL A008). Designated risk items shall have corresponding discussion/cross-references in the monthly status report and applicable financial reports.

# 3.2 Business Management (Raytheon)

The Business Management Office is responsible for implementing, tracking, and reporting business and financial management metrics/status across all CLINs for the MAINGATE Program. In this role, the Business Manager provides financial planning and development information and optimizes program schedule, cost and cash performance. The Business Manager implements and maintains the required MAINGATE Program Earned Value Management System (EVMS) information and records for the purpose of providing the Monthly Progress Status Report (CDRL A008) as well as all funding status

reports (CDRLs A009, A021, A022, and A023) to the Government. Business Management responsibilities include, but are not limited to, the following:

- Work with the Program Manager and Program Engineer to ensure Program budgets are defined, updated, monitored and achieved
- Support the Program Scheduler and IPT leads in the preparation of Integrated Master Schedule (IMS) data
- Prepare and report required Program EVMS data using Micro-Frame Program Manager (MPM)
  on a monthly basis to include an updated Estimate at Complete (EAC) in the monthly status
  report and detailed EVM data, rationale, and cause/effect/mitigation in the monthly Cost
  Performance Reports (CPRs)
- Track and maintain program billings
- Coordinate with the Program Manager and Program Engineer to manage Program risks relating to cost
- Coordinate with the Program Manager and Program Engineer to identify Program opportunities and develop optimal courses of action
- Support Program status meetings (Program Management Reviews with internal Management)
- Facilitate dissemination of business information (budget and cost), including weekly labor and expenditures reports
- Establish and maintain Program cost accounts (charge numbers) in compliance with the Contract Work Breakdown Structure, IMS, and Company practice.

## 3.3 Contract Management (Raytheon)

The Contractor's contract management organization shall provide the primary point of contact to the Government regarding all contractual items, including any issues that arise during the execution of the program. The Contractor shall maintain records of communications and these records will be made available to the Government if requested.

## 3.4 Supply Chain Management (Raytheon)

The Contractor's Supply Chain Management organization shall provide the primary point of contact to the subcontractors and teammates regarding all subcontract items including any issues that arise during the execution of the program. Supply Chain Management shall also coordinate with Business Management to ensure consistency of cost and technical performance reporting. The Contractor shall maintain records of communications and these records will be made available to the Government if requested.

# 3.5 Production Coordinator (Raytheon,

The Contractor shall assign a Production Coordinator to oversee and coordinate the activities of Supply Chain, Manufacturing, Engineering, subcontractors and parts suppliers to ensure that all test and deliverable assets are available when needed. The WIPN radio shall be produced by Raytheon and the MAINGATE Node (to include integration of the Raytheon supplied WIPN radio) shall be produced by Production Coordinator tasks include:

- Order engineering development material and items identified as critical long lead
- Program status of hardware (includes placement/receipt of parts, follow up with suppliers and program office/production personnel on any critical part shortages that come up in weekly status meetings)

- Shipment and receipt of long lead parts coming in from suppliers to be routed as CFM (customer furnished material) to production
- Shipment and receipt of parts coming in from suppliers and production to be routed for engineering analysis and test.

A priced hardware long lead list for timely execution of either of the LUT options shall be provided to the Government no later than 8 months after contact award. The list shall detail all assumptions associated with it.

# 3.6 Program Engineer (Raytheon,

A Program Engineer (PE) shall be assigned to support the MAINGATE program. The PE reports to the Chief Engineer and assists the Chief Engineer in his responsibilities for engineering cost, schedule and technical performance, including management of the engineering content on MAINGATE, engineering direction across Integrated Product Teams (IPTs) and sites, and ensuring the MAINGATE project is compliant with Raytheon engineering processes. This includes creation and execution of project plans, staffing (including skills and training), and reporting program status.

The PE assigned to the program will plan and manage the various engineering activities to ensure proper engineering processes are followed across the team. The PE also supports the Chief Engineer in providing technical subcontract management to ensure the team is communicating and working to the same revision of information.

# 3.7 Configuration Management /Data Management (Raytheon,

The Contractor shall implement, document, and maintain a Configuration Management (CM) system that is based on an industry-recognized quality management system, such as EIA Standard 649, National Consensus Standard for Configuration Management, to ensure technical and administrative integrity of all hardware and software products, documentation, and data pertaining to this contract. The CM system shall implement processes for configuration identification, control, status accounting and audits. The Government shall be provided copies of the documentation upon request.

All delivered CDRLS are to be under Prime contractor Configuration Management control. The documents shall be delivered by electronic means (MAINGATE Portal or CD-ROM via mail or package service) to the Government Contract Manager, as applicable. If a collaboration web site is established, an email notification will be provided as new material is posted, providing a meaningful title, revision number, and location on the site. If CDs are used for delivery, file names will include a revision number to preclude overwriting previous deliveries and to ensure all parties are working from the same version. In addition, any submittal made in response to, or incorporating Government comments from the preceding submittal shall include an attached or appended memorandum summarizing the comments and their disposition. Table 3.7-I provides a summary of the CDRL documents that the Contractor is required to deliver to Government.

Table 3.7-I. Summary of Documentation

Final CDRL	Description	CLIN
A001	Program Kickoff Meeting/Review	0001
A002	Contract Work Breakdown Structure (CWBS)	ALL
A003	Integrated Master Schedule (IMS)	ALL
A004	Risk Management Plan	0001
A005	Conference Agenda	0001, ASREQ
A006	Presentation Material	0001, ASREQ
A007	Conference Minutes	0001, ASREQ
A008	Research & Development (R&D) Project Summary - Status Report (Mthly)	ALL
A009	Contract Performance Report (CPR) - Status Report (Mthly)	ALL
A010	System Requirements Document	0001
A011	System/Hardware Design Document	0001
A012	System Specification	0001
A013	RESERVED	N/A
A014	Software Requirements Specification	0001
A015	Software Development and Test Plan	0001
A016	Software Version Description	ALL
A017	RESERVED	N/A
A018	Software / Hardware Test Report	ALL
A019	Test & Evaluation Plan	0001
A020	Production Unit Cost (PUC) estimate	ALL
A021	Contract Funds Status Report (CFSR)	ALL
A022	Cost Data Summary Report (DD Form 1921)	0002 and 0004
A023	Funding Report	ALL
A024	Project Information and Description	ALL
A025	Technical Status Report (Qtrly)	ALL
A026	Data Accession List	ALL
A027	Operations Manual / Training Material	ALL

Final CDRL	Description	CLIN
A028	Interface Control Document	ALL
A029	Software Source Code	ALL
A030	Final Report	ALL
	International Traffic in Arms Regulations (ITAR) Commodity	
A031	Jurisdiction (CJ)	ALL

#### 3.8 Quality Engineering (Raytheon)

The Contractor shall utilize its existing quality engineering system, which shall be AS9100 compliant. The Contractor shall implement, document, and maintain a quality assurance system, including reviews, inspection, test, reporting, procedures, processes evaluations, and product evaluations. The Contractor's quality control system shall ensure conformance to all SOW requirements in accordance with AS 9100. For newly developed hardware, the Contractor shall perform to their internal workmanship standards, or Government approved equivalent.

The Contractor shall perform inspection of all developed and purchased materials, and shall perform Identification, Damage, and Workmanship inspections on Government Furnished Equipment (GFE). The Contractor's Quality Assurance representative(s) shall conduct inspections and audits during all phases of development and production. Dates, performance, scope, and results of Quality Assurance inspections shall be documented and made available to the Government.

# 3.9 System Engineering (Raytheon,

The Contractor shall provide system engineering to develop a System of Systems Network Architecture for MAINGATE and to conduct a set of demonstrations that prove its capabilities. This shall consist of a requirements management process providing clear traceability of requirements to each design configuration. Key products will be a System Requirements Document (CDRL A010), System/Hardware Design Document (CDRL A011), System Specification (CDRL A012), Interface Control Document (CDRL A028), Software Requirements Specification (CDRL A014), and Software Development and Test Plan (CDRL A015).

# 3.9.1 Chief Engineer and Technical Director Raytheon)

A Chief Engineer shall be assigned to support the MAINGATE program. The Chief Engineer is responsible for the MAINGATE technical functionality, the technical content of each demonstration, and the successful execution of the demonstrations. The Chief Engineer is responsible for the overall technical fidelity of MAINGATE, ensure MAINGATE equipment and subsystems are designed to interoperate efficiently and effectively, providing the required system accuracy, reliability, maintainability, and safety.

The Technical Director (TD), as required, shall manage the technical coordination, oversee the System Integration Labs (SIL) at Raytheon (Ft. Wayne and Fullerton), oversee the test sites in Fayetteville, TN, Ft. Benning, GA and Ft. Gordon, GA, and assist in the independent evaluation of test and demonstration results.

## 3.9.2 Test Director

The Contractor shall provide a Test Director for Interim Demonstration #1, Interim Demonstration #2, and the Final Demonstration. The Test Director shall act as the single point of contact for all demonstration related activities, including demonstration planning, demonstration execution, and demonstration reports. Additionally, the Test Director shall coordinate all demonstration activities, obtain all communications frequency authorizations, provide for all data collection, and resolve all issues that arise during the demonstrations. A comprehensive Test and Evaluation Plan for the program shall be created (CDRL A019).

# 3.9.3 System Requirements and Architecture Definition (Raytheon,

The Contractor shall define the requirements and architecture in a single System Requirements Document (CDRL A010). This effort shall result in System Block Diagrams depicting the architectural elements and their interfaces. The MAINGATE system architecture shall describe the network characteristics of the gateway and the MANET radio required to support tactical, real-time, high fidelity video, data, and voice services to users on legacy subnets. The architecture shall describe routing protocol options and Quality of Service requirements necessary to support the heterogeneous networks of legacy radios. The architecture shall define the interfaces to all required radios including EPLRS, MicroLight EPLRS, SLICE/SRW, SecNet11, PRC-117F, SINCGARS, 802.11g, WiMAX (2.5 GHz), UMTS, TETRA, PRC-119, PRC-150, FRS, Cellular, VoIP devices, PSTN, and 800 MHz Public Safety Radio. Requirements for both the Gateway component and the Wireless Internet Protocol Network (WIPN) radio shall be defined. This effort shall be completed during CLIN 0001.

#### 3.9.4 Requirements and Architecture Reviews (All)

The Contractor shall conduct a review of the requirements and architecture at the start of the program to ensure all stakeholders clearly understand the design objectives as documented in the System Requirements Document (CDRL A010). Demonstration specific Requirements and Architecture descriptions shall be detailed and reviewed as part of the test and evaluation planning for each demonstration event.

# 3.9.5 Demonstrations

Two interim demonstrations and a final demonstration shall be conducted during CLIN 0001. The purpose of these demonstrations is to verify and assess the degree of compliance to the performance metrics in the MAINGATE BAA, including Appendix A.

# 3.9.5.1 Demonstration Readiness Review

The Contractor shall prepare a comprehensive MAINGATE Test and Evaluation Plan (CDRL A019), in Contractor format that facilitates and documents Interim Demonstration #1, Interim Demonstration #2, and the Final Demonstration. This modular document describes the detailed testing used for each demonstration to verify that the system has met the performance metrics. Interim Demonstration #1 test objectives shall be developed by the Contractor and published as a draft module to CDRL A019, Test and Evaluation Plan. This shall be provided to the Government 15 days prior to the Interim Demonstration #1 Readiness Review. The readiness review will involve all stakeholders and ensure that all aspects of the demonstration are ready for execution, including target hardware, software, test setups, and all required test equipment. Any changes to the test and evaluation plan shall be incorporated into the final interim Demonstration #1 Test and Evaluation Plan 15 days after the review. This process will

be used for next demonstrations as well. Spatial Diversity (SD) MIMO, DSA, and coexistence with communications shall be included in Interim Demo #1, Interim Demo #2 and the Final Demonstration. Link range testing shall include tests with and without SD MIMO to prove the results / benefits. Prior to Final Demonstration, coexistence with CREW systems will be demonstrated in a mutually agreed environment. DARPA shall provide the GFE, GFI, and support requested for CREW testing.

# 3.9.5.2 Demonstration Execution and Final Report

Preparation for each Demonstration will be led by the Test Director and will include:

- Finalize integration of system into test vehicles (e.g. HMMMVs)
- Verify system and network operations on a daily basis
- Characterize network operations to optimize objectives
- Troubleshoot and repair failures associated with the network
- Verification of proper revisions for all Hardware and Software components
- Manpower assigned to operate each node during the demonstration
- Satellite access and frequency authorizations secured for the demonstration
- Integration and logistics support during demonstration, including field facilities
- Required Flight safety certifications in place
- SATCOM and/or ISR feed, Legacy radios, commercial radios, and First Responder radios are all available
- Test ground/air vehicles, including drivers and pilots are all ready for test.

The tests defined in the test plan shall be executed under the direction of the Test Director and all results will be recorded per the instructions in the test plan. The Contractor shall prepare Test Reports, in Contractor format, for Interim Demonstration 1, Interim Demonstration 2, and the Final Demonstration to facilitate briefing of results and be incorporated in the final report (CDRL A030). These Test Reports (e.g. CDRL A018) shall document the test conducted, results and provide an assessment indicating the degree to which the system meets the Appendix A Program Metrics.

## 3.9.6 Training and Onsite Technical Support (Base award and Option(s))

The Contractor shall provide training, preparatory, and onsite technical support as a component of the Final Demonstration (CLIN 0001) and as part of the Limited User Testing (LUT) options (CLIN 0003 (CONUS) and 0005 Outside Continental United States (OCONUS)).

Training will consist of:

- 1. Developing training material suitable for use by Military personnel to support operation of the MAINGATE system. Training material will consist of classroom type material as well as "cut sheet" summary material for use in the field.
- 2. Support to onsite use of the training material by the Military operators, including hands on training in a classroom and field environment.
- 3. Leave behind training material (paper and CD) to enable further training as required.

Preparatory technical support will consist of:

- 1. Establishing a System Integration Lab (SIL) to facilitate development of training material, testing of system level components inserted into the system after the MAINGATE final demonstration, and testing of the system prior to employment.
- 2. Final system testing of a select subset of MAINGATE systems prior to employment

Onsite technical support will consist of:

- 1. Assistance in developing a mounting configuration for platforms of employment.
- 2. Support for the development of Tactics, Techniques, and Procedures (TTPs) for employment of MAINGATE.
- 3. Support during the conduct of a Limited User Test (LUT) (including up to two (2) smaller pre-LUT tests to enable familiarization with the MAINGATE hardware and its employment and development of TTPs) to answer questions related to employment, operation, mounting, or troubleshooting MAINGATE systems.

#### 3.10 Software Design (Raytheon,

The Contractor shall provide TRL 6 software for both the MAINGATE Node and the WIPN radio. Software planning and management will be performed throughout the development process. Key products will be a Software Requirements Specification (CDRL A014) and Software Development and Test Plan (CDRL A015).

# 3.10.1 Software Design, Code, Unit Test and SW Integration (Raytheon,

The Contractor shall analyze software requirements, design, integrate and test software forMAINGATE. This encompasses modifying existing software in the MAINGATE Node and the WIPN to satisfy the MAINGATE BAA Appendix A Program Metrics. Software shall be developed and tested to support Interim Demonstration #1. Updates will be provided and tested for Interim Demonstration #2 and the Final Demonstration to optimize system functionality. Key products will be Software Development and Test Plan (CDRL A015) and Software/Hardware Test Reports (CDRL A018). The majority of the effort is anticipated to be completed in CLIN 0001 with potential for additional software efforts in remaining CLINS as needed.

# 3.10.2 Software Releases (Raytheon,

There shall be iterative releases of the MAINGATE software during the development and integration process. An informal software qualification test is performed to ensure the software functions properly prior to each release to software configuration management. The Contractor shall prepare Software Release Notes with each software release. The Contractor shall prepare a Software Version Description for each formal release of the software for demonstration. All software shall be properly controlled via configuration management. Key products will be Software Version Description (CDRL A016). The effort shall be completed during CLIN 0001. The initial software source code will be delivered after the completion of the final demonstration via CDRL A029.

#### 3.10.3 Graphical User Interface

The Graphical User Interface (GUI) shall be provided in a representative draft before it is coded to obtain government feedback. The representative draft will be pseudo-functional, for example

using a PowerPoint brief with point-and-click navigation. The Government will have 20 days to provide the GUI feedback to the Contractor to prevent schedule slippage.

## 3.11 Hardware Design and integration (Raytheon,

The Contractor shall provide TRL 6 MAINGATE Node and the WIPN radio hardware. Hardware engineering shall be performed for CLIN 0001. Key products will be System/Hardware Design Document (CDRL A011) for the system and for each hardware controlled item (HWCI that has changed for the MAINGATE program.

#### 3.11.1 Hardware Design, Build, Unit Test and HW Integration (Raytheon,

The Contractor shall make the required modifications to existing hardware designs (i.e., WIPN radio modules), select compliant commercial off-the-shelf products (e.g. Gateway components), and design the required packaging for all the hardware comprising a MAINGATE node. These hardware changes are required to satisfy, to the best degree possible, the MAINGATE BAA Appendix A Program Metrics. All MAINGATE hardware will be unit tested and integrated together to create a MAINGATE Node which will undergo a hardware level integration test to ensure it is functioning properly. All hardware shall be developed to support Interim Demonstration #1. Minor updates may be implemented for Interim Demonstration #2 and the Final Demonstration if required. The effort shall be completed in CLIN 0001. The Production Unit Cost (PUC) estimate (CDRL A020) shall be briefed at contract kickoff and progressively matured throughout the MAINGATE Program period to ensure a high confidence estimate is achieved with final delivery of CDRL A020 at completion of the final demonstration. It will include a "design for production" discussion on the path forward to achieve these final design cost projections.

## 3.11.2 Hardware Environmental Evaluations (Raytheon, (b)(4)

The Contractor shall conduct environmental evaluations, including EMI/EMC on MAINGATE node hardware during CLIN 0001 development. The EMI/EMC evaluations include: Radiated Emissions, Radiated Susceptibility, Conducted Emissions, and Conducted Susceptibility per Mil-Std-461. The purpose is to characterize the design as early as possible to allow for modifications to ensure compliance with these program metrics.

# 3.12 Advanced Concept Technology (ACT) Production (Raytheon,

The Contractor shall produce the required amount of hardware for the three demonstrations of the ACT portion of the program. These 13 MAINGATE Nodes, two spare MAINGATE Nodes, and five additional MAINGATE Nodes (lab units) are used to facilitate the various test scenarios of the program for a total of 20 MAINGATE Nodes. This is performed as part of CLIN 0001.

# 3.13 Preproduction Units (Raytheon, (Option)

The Contractor shall produce the required amount of hardware for the LUT(s) portion of the program if Options 1 and/or 3 are exercised. The current defined quantities and list of various CLINs for these options are identified in Section 1.0 of this SOW. Effort shall include all personnel and tooling required to produce the product, program management, and engineering support. The performance specification for the LUT units will be as demonstrated during the ACT Phase.

## 3.14 Government Furnished Information/Property

The contractor shall provide timely notification of need dates for GFI/GFP, generally not less than 30 calendar days before the information/property is required.

. CONTRACT LINE 00 . SYSTEM/ITEM MAING/	ITEM NO.			·	ese addresses. S	end completed form to	the Governme	ent Issuing Ci	ontracting	gement Officer	l I
	01	B. EXHIBIT	ГВ	C. CATEGORY:	TDP	TM 01	THER _MI	sc			1
MAING	ATE	E. CONTRACT HR0011-09-C			F. CONTR	ACTOR THEON COM	IPANY				<b>I</b>
DATA ITEM NO.	2. TITLE OF D	DATA ITEM			3. SUBTIT	LE					17. PRICE GROUP
A001	RESEARCH SUMMARY	& DEVELEO	PMENT (R&D)	PROJECT	PROGRA	M KICKOFF I	MEETING	KEVIE	W		
. AUTHORITY (Data DI-MISC-81612E		cument No.)	5. CONTRACT CSOW	REFERENCE		6. REQUIRING DARPA/STO	)				18. ESTIMAT TOTAL PRIC
. DD 250 REQ N/A	9. DIST STATEMENT	10. FREQU	JENCY ONE	12. DATE OF 1ST S	UBMISSION	14.	DISTRIB		h COB	IE6	fil .
. APP CODE	4	11. AS OF		13. DATE OF SUBS	EQUENT	a. ADDRI	ESSEE		b. COPIES Final		! <b></b>
N/A	C	I I I I I	*	SUBMISSION N/A				Draft	Reg	Repro	ľ
6. REMARKS						SSC-PAC/C	OTR	0	1	0	ļi
30 DAC						DARPA/STO		0	1	0	<u> </u> !
* Contractor will c Performance Plan				n Milestone Schedu	le	DARPA/CM	0	0	1	0	1
Contractor Format	t										<b>1</b> ′ <b>1</b> ′
Block 9: C: Distrib	ution to US Go	vernment agei	ncies and their	contractors.					-		<del> </del>
Block 14: One (1) Collaboration E-R				d on MAINGATE C	ustomer						1
neil.hoff@navy.mi	<u>il</u> .										
arry.stotts@darpa	a.mil and								┼		
robin.swatloski@d	darpa.mil										]ı -{:
									-	-	-[i
											];
									-	-	<u>-l</u> !
							-	-	-	-	-{;
								-	-	-	-fi
								-	$\dagger$		1!
											];
											∐i
											_!
									-		4
									-		-∤i
								-			- <u> </u> !
								-	-	-	<b>⊣</b> !
											<b>∃</b> i
											i
						45 7074					_;
G. PREPARED BY		H. DATE		I. APPRO	/ED BY	15. TOTAL		0 J. D.	ATE	0	<b>-</b> [:
	-	12 June 20	09	Robin Sw							ļ¦

**REMENTS LIST** 

CONTRACT DATA REC

(1 Data Item)

~orm Approved 3 No. 0704-0188

Attachmenta

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No lited in Block F.

A. CONTRACT LINE IT		B. EXHIBIT		C. CA	TEGORY:	TOD	THE OTHER !	1CMT		
ALL	· · · · · · · · · · · · · · · · · · ·		B		· · · · · · · · · · · · · · · · · · ·	TDP		//GM1		
D. SYSTEM/ITEM MAINGA		R0011-09-C				F. CONTRA	THEON COMPANY			
I. DATA ITEM NO.	2. TITLE OF DA	ATA ITEM				3. SUBTIT	LE			
A002	CONTRACT	WORK BREA	KDOWN STR	RUCTURE	(CWBS)					
I. AUTHORITY (Data A DI-MGMT-81334C		ument No.)	• 1				6. REQUIRING OFFICE DARPA/STO	3		
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	IENCY ONE/R	12. DATE	OF 1ST SU 30DAC	BMISSION	14. DISTRI	BUTION		
B. APP CODE	O : A ! LWILINI			40 0475			a. ADDRESSEE		b. COP Fir	
A CODE	С	11. AS OF SEE	BLOCK 16		OF SUBSE		a. ADDRESSEE	Draft	Reg	Repro
16. REMARKS					<del></del>		SCC-PAC/COTR	1	1	0
Approval/disapprova	al by letter from	the COTR w	ithin 15 days :	after receir	nt Disann	roval	DARPA/STO	1	2	0
requires correction/r				artor robbiş	ж. Бюарр	lovai	DARPA/CMO	0	1	0
Contractor Format				•			DCMA/ACO	0	1	0
* R/ASR – revision a keep the CWBS up appropriate change incorporate required	to date; chang s and/or revisio	es and revisions to the ind	ons to the ČWI ex and dictiona	BS shall be	e accompa	nied by				
Each contract CLIN program effort. No without the Government	changes can b	e made at or								
Block 9: C: Distribut	tion authorized	to US Gover	nment agencie	es and the	ir contracto	ors.			<del>                                     </del>	ļ
Block 14: One (1) c Collaboration E-Ro				ed on MAII	NGATE C	ıstomer				
neil.hoff@navy.mil						•				<del> </del>
larry.stotts@darpa.	<u>mil</u>									
patrick.bailey@dar	oa.mil and	•							-	
robin.swatloski@da	ırpa.mi									
Electronic submissi www.tfims.darpa.m		ploaded via a	ccess to the D	ARPA Ext	ranet repo	rting page				
									+	-
									-	-
										+
										+
			•							
			*		•		·			
							15. TOTAL→			<del></del>
							1 13 1111 Δ1 ***************************	2	5	10

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_2\_ of \_31\_ Pages

Attachmenta

17. PRICE GROUP

TOTAL PRICE

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Sulte 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBI	r B	C. CATEGORY:	TDP	TM OTHER_M	1GMT		
D. SYSTEM/ITEM MAINGAT	1.	E. CONTRACT HR0011-09-0			F. CONTR			<del>-</del>	
1. DATA ITEM NO.	2. TITLE OF D	DATA ITEM			3. SUBTIT	LE			
A003	INTEGRATE	ED MASTER S	SCHEDULE (IMS	)					
4. AUTHORITY (Data A DI-MGMT-81650/T		Document No.) 5. CONTRACT REFERENCE CSOW				6. REQUIRING OFFICE DARPA/STO			
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQ	JENCY 1	2. DATE OF 1ST SI	JBMISSION	14. DISTRIE	·		
8. APP CODE		11. AS OF		13. DATE OF SUBSEQUENT		a. ADDRESSEE		b. COPIES Final	
A	С	11. A3 01		SUBMISSION ***	COLINI	a. ADDITEOGEE	Draft	Reg	Repro
16. REMARKS	<u> </u>	<del></del>				SSC-PAC/COTR	1	1	0
* End of first full acc	ounting period	d fallowing car	ntract award			DARPA/STO	1	1	0
	ouring portor		made awara.						
Contractor Format									
** First submission i the Intermediate Lev	s due within 6 vel Schedule,	0 working day at a minimum	rs. First submiss	ion shall include re	eporting to				
*** 17 working days working days after E	after the close Block 11. All s	e of the contra schedule level	actor's monthly ac s (earlier than 17	ccounting period, l	NLT 25 couraged).				
Block 9: C: Distribut	tion authorized	d to US Gover	nment agencies	and their contract	ors.		-		
Block 14: One (1) co				on MAINGATE Cu	ustomer				
neil.hoff@navy.mil									
		•						ļ	
larry.stotts@darpa.r	<u>mil</u>						+	-	
								-	
								<del> </del>	<u> </u>
							_	ļ	-
•								-	<del> </del> -
									<del> </del>
								+	<u> </u>
								1	-
									-
								-	+
									+
								-	+
						15. TOTAL→	2	2	0
G. PREPARED BY		H. DATE 12 June 20	09	I. APPROV Robin Swa			J. DA	ATE.	

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_3\_ of \_31\_ Pages

1

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

(1 Data Item)

Attachmant 0

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suita 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

	1, JUN 90 (E	:C)		ious editions are c			Page _4_				⊣i	
G. PREPARED BY		H. DATE 12 June 20	09	I. APPROV Robin Sw				J. D	ATE		i	
C DDEDARES ST		T 11 84==				15. TC	)TAL→		2	0	_li	
											];	
									1		1!	
									+	-	-fi	
									-	-	- ¦	
											<u> </u>	
											-∐i	
											_ ¦	
											<u>]</u> !	
				•					1		⊣i	
									-	-	-	
								_	-		-	
									ļ	<del> </del>	- i	
											_ ¦	
											]•	
									<u> </u>	<del>                                     </del>	√¦i	
									1		- ¦	
									+	1.	-[1	
									-	-	- <b> </b> i	
									-		-∦;	
rry.stotts@darpa.	<u>mil</u>								ļ	<u> </u>	<u> </u> !	
											Ji −	
eil.hoff@navy.mil											]	
ollaboration E-Ro	om and email r	and materials notification se	snaii de place nt to:	u on MAINGATE CI	istomer			_	1	<del>                                     </del>	1!	
	any of rangets	and material-	chall be also	d on MAINGATE C	etomo:						√i	
ontractor Format							······································	-	<del> </del>		<b>{</b> ;	
R/ASR											<u> </u>	
30DAC										ļ	Įi∙	
											][	
ock 9: C: Distribut	tion authorized	to US Govern	nment agencies	s and their contracto	ors.						1!	
			•			DARPA		1	1	0	fi 💮	
S. REMARKS						SSC-P	AC/COTR	1	Reg 1	Repro	ľ	
APP CODE A	С	11. AS OF	DATE	13. DATE OF SUBS' SUBMISSION **	QUENT	a. A	DDRESSEE	Draft	L	Final		
LT	STATEMENT		One/R	30DAC					b. COP		liL_	
. DD 250 REQ	9. DIST	10. FREQUENCY		12. DATE OF 1ST S	JBMISSION			BUTION	JTION			
AUTHORITY (Data I-MGMT-80004A/1		ument No.)	5. CONTRACT CSOW	REFERENCE		6. REQU	I <mark>IRING OFFICI</mark> /STO	E			18. E	
			-									
A004	RISK MANAC	SEMENT PLA	AN								GRO	
DATA ITEM NO.	2. TITLE OF D				3. SUBTIT				·····		17. F	
SYSTEM/ITEM MAINGA		E. CONTRACT HR0011-09-C		,	F. CONTR.		COMPANY				ŀ	
000			В		TDP	TM	OTHER_	MGMT			i	
CONTRACT LINE I	IEM NO.	B. EXHIBIT		C. CATEGORY:								

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188). Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

CONTRACT LINE I		B. EXHIBI	T B	C. CATEGORY:		TM OTHER _A	ADMN			
SYSTEM/ITEM		E. CONTRACT	7/PR NO.		F. CONTR	ACTOR				
MAINGA DATA ITEM NO.		DATA ITEM	3-0083		3. SUBTIT	THEON COMPANY		<del></del>		
A005	CONFERE	NCE AGENDA								
UTHORITY (Data -ADMIN-81249A		ocument No.)	6. REQUIRING OFFICE DARPA/STO	<b>E</b>						
DD 250 REQ T	9. DIST STATEMEN	10. FREQU	UENCY ASREQ	12. DATE OF 1ST S	UBMISSION	14. DISTRI	BUTION	b. COPIES		
APP CODE	С	11. AS OF		13. DATE OF SUBS	EQUENT	a. ADDRESSEE			nal	
· · · · · · · · · · · · · · · · · · ·			*	SUBMISSION **			Draft	Reg	Repro	
REMARKS						DARPA/STO	0	1	0	
roval/disapprov	al by letter fro	om the COTR v	vithin 15 days a	fter receipt. Disap	oroval	SSC-PAC/COTR DARPA/CMO	0	1	0	
uires correction/	resubmissior	i within 15 days	atter receipt.			DARFACINO	-			
ntractor Format										
REQ – means as ew/presenation.		document plan	s for each meet	ling, briefing,						
ubmit 5 days prid TR within 2 days	or to each re	view or present	ation. Approval	I/disapproval by let	ter for the					
			n prior to review	or presentation.						
ck 9: C: Distribu	ıtion authoriz	ed to US Gover	rnment agencie	s and their contract	ors.					
	copy of report	ts and materials	s shall be placed	d on MAINGATE C						
		ii notinoation se	in to.							
.hoff@navy.mil	ano							ļ	<u> </u>	
y.stotts@darpa	<u>,mil</u>						_		-	
in.swatloski@da	arpa.mil							-		
							<del>-   · · · · · · · · · · · · · · · · · · </del>	1	1	
							-	+	<del> </del>	
								-		
								1	1	
								-		
					•			-	-	
			····			15. TOTAL→	0	3	0	
PREPARED BY		H. DATE		I. APPRO	/ED BY		J. D.	ATE		

Attachment-Q

AHOChment-a

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

FHEON COMPANY  E  17. PRICE GROUP  6. REQUIRING OFFICE DARPA/STO  18. ESTIN TOTAL PI	FHEON COMPANY  E  6. REQUIRING OFFICE DARPA/STO	F. CONTRATHE RAY			CONTRACT R0011-09-C		D. SYSTEM/ITEM MAINGAT
6. REQUIRING OFFICE DARPA/STO  14. DISTRIBUTION  a. ADDRESSEE  Draft Reg Repro  DARPA/STO  0 1 0	6. REQUIRING OFFICE DARPA/STO	3. SUBTIT					
6. REQUIRING OFFICE DARPA/STO  14. DISTRIBUTION  a. ADDRESSEE  Draft Reg Repro  DARPA/STO  0 1 0	DARPA/STO				TA ITEM	2. TITLE OF DA	1. DATA ITEM NO.
DARPA/STO	DARPA/STO		•	IAL	ON MATER	PRESENTATI	A006
b. COPIES           praft         Final           Reg         Repro           DARPA/STO         0         1         0			REFERENCE	5. CONTRACT F CSOW	ment No.)		I. AUTHORITY (Data A DI-ADMIN-81373/T
a. ADDRESSEE         Draft         Final           Reg         Repro           DARPA/STO         0         1         0	14. DISTRIB	UBMISSION	12. DATE OF 1ST	UENCY ASREQ	10. FREQ	9. DIST STATEMENT	7. DD 250 REQ LT
Draft   Reg   Repro	a ADDRESSEE	13. DATE OF SUBSEQUENT			11. AS OF		8. APP CODE
	u	LGOLIN	SUBMISSION *		11. A3 01	С	N/A
SSC-PAC/COTR 0 1 0	DARPA/STO					<u> </u>	16. REMARKS
	SSC-PAC/COTR		ATION	IFIED INFORMA	AIN CLASS	ALL NOT CONT	THIS REPORT SHA
		ļ					Contractor Format
		d reviews.	sion at briefings a	cs under discuss	cument topic	s required to do	ASREQ – means as
		ter for the	/disapproval by I	ation. Approval/	v or present		* Submit 5 days prid COTR within 2 days
		contract.	in number for t	eed 200 per day	hall not exc	of view graphs s	Maximum number o
			/indows.	MS-Office for W	patible with	e on media com	Submit reproducible
<u> </u>		tors.	s and their contra	rnment agencies	to US Gove	ition authorized t	Block 9: C: Distribu
		ustomer	d on MAINGATE	s shall be placed ent to:	nd material otification s	copy of reports a oom and email no	Block 14: One (1) c Collaboration E-Ro
						and	neil.hoff@navy.mil
						<u>.mil</u>	larry.stotts@darpa.
i							
i							
15. TOTAL→ 0 2 0	15. TOTAL→						
J. DATE		VED BY atloski	I. APPR Robin S	009	H. DATE 12 June 20		G. PREPARED BY

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBIT	В	C. CATEGORY	: TDP	TM OTHER _A	DMN	_		1
D. SYSTEM/ITEM MAINGA		E. CONTRACT			F. CONTR THE RAY	ACTOR THEON COMPANY				l !
1. DATA ITEM NO.	2. TITLE OF D	ATA ITEM			3. SUBTIT	LE				17. PRICE GROUP
A007	CONFEREN	CE MINUTES	3							
4. AUTHORITY (Data DI-ADMIN-81250A/	Τ	ument No.)	5. CONTRACT R CSOW			6. REQUIRING OFFICE DARPA/STO				18. ESTIMATED TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY 1: ASREQ	2. DATE OF 1ST S	SUBMISSION	14. DISTRIE		b. COP	IEC	li]
8. APP CODE		11. AS OF		3. DATE OF SUBS	SEQUENT	a. ADDRESSEE			nal	
N/A	С			UBMISSION *			Draft	Reg	Repro	ji
16. REMARKS						SSC-PAC/COTR	0	1	0	ļı
						DARPA/STO	0	1	0	][
ASREQ - means as	required for e	ach meeting,	briefing, review/p	resenation.					-	<u> </u>
Contractor Format								ļ		ŀ
* Submit within 10 b	nusiness dave	after each re	view or presentation	nn .			-	-	-	<b>1</b> 1
					_					<u></u> ji
Block 9: C: Distribu	tion authorized	to US Gover	nment agencies a	and their contrac	tors.					]!
Block 14: One (1) c	opy of reports	and materials	s shall be placed o	on MAINGATE E	- Customer			-	ļ	11
Collaboration Roon	n and email not	litication sen	t to:					+	<del> </del>	1
neil.hoff@navy.mil							-	<del>                                     </del>		1.
larry.stotts@darpa.	<u>mil</u>						+	<del>                                     </del>		1
									1	<u>]</u> i
										]
								<del> </del>	<u> </u>	- <b>l</b> i
								<del> </del>		<b>-</b>  1
								1	-	- }
								-		<b>- </b> ¦
							+		-	1!
										<b>-</b> 1
								_		_ i
									-	_!
								-	-	-{¦
										-{i
							<b>-</b>	+	<del> </del>	<u> </u>
										];
										]i
								-	_	<u> </u>
										- ¦
								+		-ji
	•	•				15. TOTAL→	0	2	0	<b>-</b>  !
G. PREPARED BY		H. DATE 12 June 20	09	I. APPRO Robin Sv			J. D.			1
		<del></del>	<del></del>		·					٦,

DD Form 1423-1, JUN 90 (EG)

Attachment-0

Previous editions are obsolete

Page \_7\_ of \_31\_ Pages

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBIT	В	C. CATEGORY		TM OTHER _	MISC			1
D. SYSTEM/ITEM MAINGA		CONTRACT		1	F. CONTR Raytheor	ACTOR	-			
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM	<del></del>		3. SUBTIT					17. PRICE GROUP
A008	RESEARCH 8 SUMMARY	DEVELOP	MENT (R&D) PR	OJECT	STATUS	REPORT				I GROOF
4. AUTHORITY (Data / DI-MISC-81612B/	Τ	ment No.)	5. CONTRACT F CSOW	REFERENCE		6. REQUIRING OFFIC DARPA/CMO	E			18. ESTIMATE TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY 1	2. DATE OF 1ST	SUBMISSION	14. DISTR	IBUTION			
8. APP CODE	•	11. AS OF		I3. DATE OF SUB	SEQUENT	a. ADDRESSEE		b. COP	1 1 1 1	ļ! <b></b>
N/A	С			SUBMISSION **			Draft	Reg	Rерго	Si .
16. REMARKS		-				SSC-PAC/COTR	0	1		1
THIS REPORT SHA	ALL NOT CONT	AIN CLASS	IFIED INFORMA	TION		DARPA/STO	0	2	<del></del>	<u> </u>
ASREQ – means as	required for ea	ch meeting,	briefing, review/	presenation.		DCMA/ACO	U	1	U	<u>l</u> i
* At the close of the	contractor's mo	nthly accou	nting period.					-		li
** Submit 25 calend	ar days after Bl	ock 11 time.								1
Contractor Format										]! 
Block 9: C: Distribut	tion authorized t	o US Gover	nment agencies	and their contrac	tors.					1
Block 14: One (1) co Collaboration E-Roc	opy of reports a	nd materials otification se	shall be placed nt to:	on MAINGATE (	Customer					<u> </u>
neil.hoff@navy.mil							_	-	-	1
larry.stotts@darpa.	<u>mil</u>									<u> </u>
patrick.bailey@darr	oa.mil							-		- I
Electronic submissi	ons shall be via	access to t	ne DARPA Extra	net reporting pag	ie.					][
www.tfims.darpa.m	il			(opo, g par			_	-	<del>                                     </del>	<b>¦</b> i
										1
								-	-	- i
									-	- !
								1	1	-
-										<u>]</u> !
								1		_}! 
							_	-	+	-∫i
									-	-
										<u>]</u> i
										<u>]</u> !
									-	
						15. TOTAL	0	4	0	-1
G. PREPARED BY		H. DATE	-	I. APPRO			J. D.		1 0	-†¦
		12 June 200	) <del>9</del>	Robin Sv	/atloski	A-2				_

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_8\_ of \_31\_ Pages



(1 Data Item)

m Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services; Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. ALL	B. EXHIBIT	В.	C. CATEGOR		TM OTHER _N	MGMT		. 1	1
D. SYSTEM/ITEM E	. <b>CONTRACT</b> IR0011-09-0	/PR NO.		F. CONTR					1
1. DATA ITEM NO. 2. TITLE OF DA	TA ITEM			3. SUBTIT	LE				17. PRICE GROUP
A009 CONTRACT F	PERFORMA	NCE REPORT (C	CPR)	STATUS	REPORT	-			I GROUP
4. AUTHORITY (Data Acquisition Docu DI-MGMT-81466A	ument No.)	5. CONTRACT R CSOW	EFERENCE		6. REQUIRING OFFICE DARPA/STO				18. ESTIMATED TOTAL PRICE
7. DD 250 REQ 9. DIST LT STATEMENT	10. FREQU	JENCY 1	2. DATE OF 1ST	SUBMISSION	14. DISTRI	BUTION			
9 ADD CODE	11. AS OF		3. DATE OF SUI	RECHENT	a. ADDRESSEE		b. COP	iES nal	<u> </u>
A D	11. A3 OF		SUBMISSION ***		u. 7001120022	Draft	Reg	Repro	<u> </u>
16. REMARKS					SSC-PAC/COTR	0	1	0	li
Formats 1, 2 and 5 only are require	d monthly.				DARPA/STO	1	1	0	]:
•	•				DARPA/CMO	0	1	0	]
Report data to at least CWBS Leve path items, and specific Subcontract					DCMA/ACO	0	1	0	<u> </u>
capture all of the specific WBS eler									ļi .
represent at least 4% of the total co	ost.	•		•			ļ		l .
The Government reserves the right levels for formats and variance three									]; 
Format 5 variance analyses are rec		•	be of the contra	Gt.					1) 1
Top ten current period cost and sch							-	-	-
Top five cumulative cost and sched							<del> </del>		-11
Other significant variances that are overruns, e.g., items from risk regis							+	-	-{}
(contractor determined)	<b>g</b>		,			<del></del>	+	-	1¦
* At the end of the contractors mor	nthly accoun	ing period.							1
** NLT 60 DAC							-		-[
*** 17 working days after close of t									_]¦
working days after Block 11 and re updates (earlier than 17 days is high	port shall in	clude Integrated	Master Schedu	le (IMS)					1
significant milestone/deliverable as							_	ļ	_!!
remaining risk areas have been m	itigated, with	government con	currence.						- ¦
A SF Form 298, report documenta	tion page								-li
(http://www.gsa.gov/Portal/gsa/ep/		.do) is to be inclu	ded with final s	ubmission.			-	-	-[i
Block 9: D: Distribution authorized	to the Dena	rtment of Defens	e and U.S. Dol	<b>1</b>					- !
contractors only.	.o the Depa						-		-¦'
Block 14: One (1) copy of reports	and material	s shall be placed	on MAINGATE	Customer				<del></del>	-li
Collaboration E-Room and email r	notification s	ent to:	OITWAINGATE	Customer				_	1
neil.hoff@navy.mil									]
larry.stotts@darpa.mil									_[
									- ¦
robin.swatloski@darpa.mi									<b>_</b> 1
					15. TOTAL→				_{i
G. PREPARED BY	H. DATE			OVED BY	15. TOTAL7		ATE	0	
	12 June 20	09	Robin	Swatloski					_i

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_9\_ of \_31\_ Pages



(1 Data Item)

AHachman-2

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

ŀ			sc	TM OTHER _M	CATEGORY: TDP	В	B. EXHIBIT		CONTRACT LINE IT
				ACTOR THEON COMPANY	F. CONTR		E, CONTRACT HR0011-09-0		SYSTEM/ITEM MAINGA
1 1					3. SUBTIT	-0003		2. TITLE OF D	DATA ITEM NO.
	))	N (SRE	ENTATIO	REQUIREMENT DOCUM	SYSTEMS	ICAL REPORTS	AND TECHN	SCIENTIFIC	A010
֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓				6. REQUIRING OFFICE DARPA/STO	RENCE	5. CONTRACT RE CSOW	cument No.)		AUTHORITY (Data A DI-MISC-80711A/T
- i				14. DISTRIB	ATE OF 1ST SUBMISSION	IENCY 12 TIMES	10. FREQU	9. DIST STATEMENT	DD 250 REQ LT
- !L	b. COPIES		- t	a. ADDRESSEE	13. DATE OF SUBSEQUENT		11. AS OF		APP CODE
<del>,</del>	Repro	Reg	Draft	u. Abbiteodale	RIE OF SUBSEQUENT	* *	11. A3 01	С	N/A
ji	0	1	0	SSC-PAC/COTR				<u> </u>	6. REMARKS
	0	1	0	DARPA/STO	overnment will forward nter (DTIC)."				lock 9 is clarified s le approved interin
-  -  - :									lock 9: C: Distribut lock 10: 3TIMES n
ji									Contractor Format
					IAINGATE Customer			copy of reports	Submit as general Block 14: One (1) c Collaboration E-Roc
1									neil.hoff@navy.mil
_i									
-4!			ļ					<u>.mil</u>	arry.stotts@darpa.
- ¦			-						
- 1									
<b>-</b>  ¦		<del>                                     </del>							
∐i.									
_!									
- !		<u> </u>							
-									
i			+						
<b>-!</b> !		-							
-	-	-	-						
†՝	<del>                                     </del>	1							
٦,	<del> </del>	1	1						
1!	1	1	<b>—</b>						
",		1	1.						
j					·				
_!									
_ ¦									
<b>_</b>  ;	0	2	0	15. TOTAL→	T. ADDOCUTE DV		I u pare		G. PREPARED BY
		AIE.	J. D/		I. APPROVED BY Robin Swatloski	_	H. DATE 12 June 20		J. PREPARED BY

(1 Data Item)

rm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

!			ISC	TM OTHER _MI	TDP	C. CATEGORY:	В	B. EXHIBIT		. CONTRACT LINE IT
					F. CONTRA			E. CONTRACT		D. SYSTEM/ITEM MAINGAT
17. F GRC					3. SUBTITI				2. TITLE OF I	. DATA ITEM NO.
		MENT	DOCUM	/HARDWARE-DESIGN	SYSTEM/		ICAL REPORTS			A011
18. TOT				6. REQUIRING OFFICE DARPA/STO			5. CONTRACT RI		•	. AUTHORITY (Data A DI-MISC-80711A//T
-{i}	IE C	. COPI		14. DISTRIBI	UBMISSION	DATE OF 1ST S	IENCY 1:	10. FREQU	9. DIST STATEMENT	'. DD 250 REQ LT
╢┖		Fin		a. ADDRESSEE	FOUENT	. DATE OF SUBS		11. AS OF		APP CODE
-   ·	Repro	Reg	Draft	<u> </u>	LGOLINI			1140 01	С	N/A
li	0	1	0	SSC-PAC/COTR						6. REMARKS
ı	0	1	0	DARPA/STO	an being	w hardware deci	esian and the ne	the system (	cantures hot	Block 3: This CDRL
]!										troducing into the
<u> </u>						-				
_li					iii iorward					Block 9 is clarified s he approved interin
_ 1					ors.					Block 9: C: Distribut
- !										
- :					effort.	throughout the	or System Design	ument plans	equired to do	ASREQ means as r
- <u> </u> i					tion, any	, demos. In addi	each of the three			Block 10: 3TIMES nother design change
-[i			-						es to the ellor	Contractor Format
٦i .			1							
					ustomer	n MAINGATE C	shall be placed ont to:	and materials	opy of reports	' Submit as general Block 14: One (1) c Collaboration E-Rol
<b>- </b>										neil.hoff@navy.mil
-1!	-	-							:1	
-	-	-							TIII	arry.stotts@darpa.
- i		+								
1			1							
<b>-</b> !		1	1							
<b>-</b>  !										
7										
i			1							
ı										
!										
_];										
i										
1										
!!										
_ ;		-								
i										
_1	1	1		AE TOTAL						
	0	2	0	15. TOTAL→	/CD DV	I. APPROV		H. DATE		G. PREPARED BY
li		AIE.	J. DA							

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_11\_ of \_31\_ Pages

ļı



(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jafferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBIT	г В	C. CATEGORY:	TDP	TM OTHER _M	IISC			1
D. SYSTEM/ITEM MAINGA	E	. CONTRACT IR0011-09-C	/PR NO.		F. CONTR	<del></del>		•		1 
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM			3. SUBTIT	LE				17. PRICE GROUP
A012	SCIENTIFIC A	AND TECHN	IICAL REPORTS		SYSTEM	SPECIFICATION				I
4. AUTHORITY (Data DI-MISC-80711A/T	Acquisition Docu	ument No.)	5. CONTRACT RI CSOW	EFERENCE		6. REQUIRING OFFICE DARPA/STO				18. ESTIMATED TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY 12 Once	2. DATE OF 1ST S	UBMISSION	14. DISTRIE		b. COP	ice.	
8. APP CODE	С	11. AS OF		3. DATE OF SUBS	EQUENT	a. ADDRESSEE	<u> </u>	B. COP		! <b></b>
N/A	C		* *		·		Draft	Reg	Repro	ľ
16. REMARKS						SSC-PAC/COTR	0	1	0	l.
Block 9: C: Distribut	ion authorized t	to US Gover	nment agencies a	nd their contracto	ors.	DARPA/STO	0	1	0	il Le
Block 9 is clarified s the approved interin	o that, "Pursuai report to the D	nt to DFARS Defense Tecl	252.235-7011, th nnical Information	e Government w Center (DTIC)."	ill forward					
Contractor Format										ļi
* Submit as general	ed.									
Block 14: One (1) c Collaboration E-Roo	opy of reports a	ind materials otification se	shall be placed o	in MAINGATE Ci	ustomer					1
neil.hoff@navy.mil										
larry.stotts@darpa.	mil						<del> </del>	1		<u>l</u> ! ,
ion y ionotto (ce dan par	<u></u>								<del> </del>	<b>!</b> ;
									<u> </u>	1
										11
								-	-	<b>∮i</b>
								-	·	1
									<del> </del>	1
										1
								-	ļ	<b>↓</b> i
								-		-{!
								1	+	╁
										1
										]  
									-	√i ·
									+	-
									-	- ¦
										<u>]</u> !
										1
G. PREPARED BY		H. DATE		I. APPROV	ED BY	15. TOTAL→	0 J. D/	2 ATF	0	<b>-</b> !
		12 June 200	09	Robin Swa			3.57	- I L		)
		· · · · · · · · · · · · · · · · · · ·								<b>!</b> [

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_12\_ of \_31\_ Pages

h



# CDRL A013 RESERVED

Altochmant-2

(1 Data Item)

Altachment 2

orm Approved OMB No. 0704-0188

h

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden. to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 2420244302, and to the Office of Management and Budgel. Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer

ı			00			C. CATEGORY:		B. EXHIBIT		CONTRACT LINE IT
I			sc	TM OTHER _IP	·		В			. 000
1				ACTOR THEON COMPANY	F. CONTRA			CONTRACT: R0011-09-C		SYSTEM/ITEM MAINGAT
17. GR					3. SUBTITL				2. TITLE OF DA	DATA ITEM NO.
1	ON	ICATIC	SPECIF	RE REQUIREMENTS	SOFTWAR	5	IICAL REPORT	ND TECHN	SCIENTIFIC A	A014
18. TO				6. REQUIRING OFFICE DARPA/STO		REFERENCE	5. CONTRACT CSOW			AUTHORITY (Data A D-IPSC-81433A/T
lil 🗀				14. DISTRIB	UBMISSION	12. DATE OF 1ST S	JENCY TIMES	10. FREQU	9. DIST STATEMENT	DD 250 REQ LT
반느		. COPI Fin		a. ADDRESSEE	EOLIENT	13. DATE OF SUBS		11. AS OF		APP CODE
ľ	Repro	Reg	Draft	d. ADDITEOULE	BEQUENT	* R/ASR	*	11. A3 OF	D	N/A
ji –	0	1	0	SSC-PAC/COTR						. REMARKS
1!	0	1	0	DARPA/STO				t.	ntractor's format	ailored to allow cor
¦¦					}	ectors only	d US DoDcontr			LOCK 9: D; Distrib
1					y other	-			eans issued prio	lock 10: 3TIME me
ľ									ine effort.	esign changes to t
-{:									tod	ontractor Format
1		-	-							Submit as generat
					d email	ration E-Room an	ustomer Collabo	AINGATE C	ly, placed on MA	ubmit electronicall otification sent to:
<u> </u>									and	eil.hoff@navy.mil
-	-								<u>mil</u>	arry.stotts@darpa.
1			-	-						
-fi		-								
-			+							
-¦i		+								
]!										
_ ;										
_i		4								
- !										
- ;	-	-								
-li	-	+								
1	<b> </b>	+								
7!		1								
$\exists$ i										
_										
_ !										
- ¦			-							
- 1	0	2	0	15. TOTAL						
11			J. D.	1		I. APPRO		H. DATE		G. PREPARED BY

(1 Data Item)

Attachment 2

orm Approved OMB No. 0704-0188

h

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

DD Form 1423-	 1, JUN 90 (EG			is editions are o		Pac	ge _15_ +	of 31	Page		։
G. PREPARED BY		H. DATE 12 June 200	)9	I. APPROV Robin Swa			· · · · · · · · · · · · · · · · · · ·	J. DA			†i
						15. TOTAL	<del>-</del>	-	2	0	┨;
								-			-  -
											1!
								+	+	1	╣
								-	<del> </del>	-	<b>∤</b> !
											<u> </u>
											]
									1		ji .
									-	-	-{¦
								<del>                                     </del>	-	-	<u>l</u> !
										<u> </u>	<u> </u>
								<del>-</del>		-	{i
								-	-		
								ļ			Įi .
											1;
									1		<u>!</u>
-										-	ľ
arry.stotts@darpa.	<u>mil</u>								ļ		<u> </u>  -
neil.hoff@navy.mil	and										ļi
email notification se	ent to:			- 3							1
Block 14 Submit ele										-	ľ
Block 9: C: Distribut	tion authorized to	o US Gover	nment agencies a	and their contract	ors.					1	1
Submit as generate	ed. In addition,	any other de	esign changes to	the effort.							i
Contractor Format											
•	princint diffu test (	accuments.									!
Block 3: This CDRI he software develo	captures both to	the software	development an	d test plans. It co	mbines				<u> </u>		1
						DARPA/STO		0	1	0	1 .
16. REMARKS	1				,	SSC-PAC/C	OTR	0	1	0	i I
B. APP CODE N/A	С	11. AS OF	DATE 1	3. DATE OF SUBS R/ASR	EQUENT	a. ADDRE	SSEE	Draft	Fir Reg	nal Repro	i ,
LT	STATEMENT		Once	*				l	. COP		<u> </u>
'. DD 250 REQ	9. DIST	10. FREQU		2. DATE OF 1ST S	UBMISSION		DISTRIBL	JTION			TOTAL P
I. AUTHORITY (Data DI-IPSC-81427A/T	Acquisition Docu	ment No.)	5. CONTRACT R	EFERENCE		6. REQUIRING DARPA/STO					18. ESTIN
A015	SCIENTIFIC A	MD TECHN	IICAL REPORTS		SOFTWA	RE DEVELOP	MENT A	ND TES	ST PLA	۸N	!
	2. TITLE OF DA				3. SUBTIT					]	17. PRICE GROUP
, DATA ITEM NO.		R0011-09-C	C-0083			THEON COM	PANY	<del></del>			l
. SYSTEM/ITEM	·	CONTRACT			F. CONTR					-	! 1
CONTRACT LINE I		B. EXHIBIT	r B	C. CATEGORY:	TDP	тм от	HER IS	280			ľ

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

DD Form 1423		12 June 20			Swatloski	Page _16_			
G. PREPARED BY		H. DATE		ΙΔΡ	ROVED BY	15. TOTAL→	0 J. D	2 ATE	0
								-	
							-	-	
								-	-
									ļ.
				, :			-	<b> </b>	
								-	
								-	
									-
							-		
								-	-
						·			
y.stotts@darpa	a.mil							-	-
.hoff@navy.mi	<u>l</u> and								-
ification sent to	:								
	illy, placed on M	AINGATE C	ustomer Collab	oration E-Room	and email				
ntractor Format	* Submit as gene	erated.					-		-
sign changes to	the effort.								
	means issued pr	ior to each o	of the three, de	mos. In addition	n, any other				
OCK 9: D; Distr	ibution authorize	d toUS Gove	ernment agenc	ies and their cor	ntractors.				
	ontractor's forma								
1 m = d t = - 11						DARPA/STO	0	1	0
REMARKS						SSC-PAC/COTR	0	1	0
/A	С		*	* R/ASR			Draft	Reg	Repro
PP CODE		11. AS OF		13. DATE OF SI	JBSEQUENT	a. ADDRESSEE			nal
D 250 REQ T	9. DIST STATEMENT	10. FREQU	UENCY STIMES	12. DATE OF 15	T SUBMISSION	14. DISTRIE		b. COP	
I-IPSC-81442A	Acquisition Docu T	iment No.)	CSOW CSOW	REFERENCE		6. REQUIRING OFFICE DARPA/STO			
					3011777	<b></b>		(000)	
A016			IICAL REORTS			ARE VERSION DESCR	IPTION	(SVD)	
TA ITEM NO.	2. TITLE OF DA	R0011-09-C	2-0083		3. SUBTII	YTHEON COMPANY			
STEM/ITEM		CONTRACT			F. CONTR		<del></del>		
ONTRACT LINE AL	.L	B. EXHIBIT	В	C. CATEGO	TDP	TM OTHER_IF	sc		.

AHORMAN Q

# CDRL A017 RESERVED

Attachment a

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing Instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense. Washington Headquarters Services. Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA Captage and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Captage of the Captage of

		12 June 20	09	Robin Sv	vatioski					11
G. PREPARED B	Y	H. DATE		I. APPRO			J. D.			†¦
						15. TOTAL	0	2	0	-1!
								-	-	-
										<u> </u> ¦
						4.				_j;
										- ¦
										-li
										4
										]i
									-	†¦
								-		
										-li
										1!
										fi
								-	-	-{¦
arry.stotts@darp	ımı.sı							-		-li
										1;
neil.hoff@navy.n	nil and							-		ţi.
Block 14: Submit mail notification	electronically,   sent to:	placed on MAI	NGATE Custo	mer Collaboration E	-Room and			-	-	
Submit as gene										]i
									-	1
Contractor Forma	at									l
Block 10: 3 HME other design chai	o means issued nges to the effo	rt, days after rt,	each of the thi	ree, demos. In addi	tion, any					
	2 man !	AE al			41					∫i
Block 9: D: Distrit only.	oution authorize	d to Departme	nt of Defense	and U.S. DoD Cont	ractors			1		ľ
corrections, and s							-			į.
R/ASR means re	visions as requi	red to keep the	STR up to da	ite, make changes o	or					
						DARPA/STO	0	1	0	i
6. REMARKS						SSC-PAC/COTR	0	Reg 1	Repro	1
. APP CODE N/A	D	11. AS OF	DATE	13. DATE OF SUBS	SEQUENT	a. ADDRESSEE	Draft	Fin		i
LT	STATEMEN		TIMES	*	200111001014	, Diotida	_	b. COPI	ES	
DI-IPSC-81440A		10. FREQ	CSOW	12. DATE OF 1ST S	SIIRMISSION	DARPA/STO  14. DISTRIE	RUTION			тот
. AUTHORITY (Da	ta Acquisition Do	ocument No.)	5. CONTRAC	T REFERENCE		6. REQUIRING OFFICE				18. E
A018	SCIENTIFIC	C AND TECHN	IICAL REORT	s	SOFTWA	ARE /HARDWARE TES	ST REPO	RT		
DATA ITEM NO.	2. TITLE OF	DATA ITEM			3. SUBTIT	LE				17. I GR
SYSTEM/ITEM MAING	SATE	HR0011-09-0			F. CONTR	YTHEON COMPANY				! !
	YLL .	F 001:751	В			TM OTHER_IF	SC			1
CONTRACT LINE		B. EXHIBI		C. CATEGORY		T.1 07:17	200			١

Attachment-2

Previous editions are obsolete

Page \_18\_ of \_31\_ Pages

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. iisted in Block E.

A. CONTRACT LINE !" 000		B. EXHIBIT		C. CATEGORY		TM OTHER	NDTI			I
). SYSTEM/ITEM	·	. CONTRACT	B VPR NO		F. CONTR	TM OTHER _	_ND11			1
MAINGA'		IR0011-09-C				THEON COMPANY				1
. DATA ITEM NO.	2. TITLE OF DA	TA ITEM			3. SUBTIT	LE		····		17. PRICE
A019	TEST AND E	ALUATION	PLAN		STATUS	REPORT				I GROUP
. AUTHORITY (Data DI-NDTI-80566A/T		ıment No.)	5. CONTRACT CSOW	REFERENCE		6. REQUIRING OFFIC DARPA/STO	E			18. ESTIM TOTAL PE
. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU		12. DATE OF 1ST S	UBMISSION	14. DISTR	IBUTION			
	SIATEMENT		TIMES	*				b. COP		L
APP CODE	С	11. AS OF	N/A	13. DATE OF SUBS SUBMISSION **	EQUENT	a. ADDRESSEE	Draft	Fir	nal Repro	1
6. REMARKS						DARPA/STO	1	1	0	li
						SSC-PAC/COTR	1 .	1	0	1
										]!
Block 9: C: Distribut	ion authorized t	o US Gover	nment agencies	and their contract	ors.					<b>!</b>
Block 10: 3TIMES n	neans issued 15	days prior	to each of the tl	nree, demos. In ad	ldition, any					Įi
ther design change	es to the effort.							<u> </u>	ļ	ļı
Contractor Format								<del> </del>		<b>!</b> !
Submit as general	ed.							-	<del> </del>	li -
*Approval/disappro	val by letter from	m the COTE	within 15 days	after receipt Die:	annroval			<del> </del>	<del> </del>	√i
equires correction/	resubmission w	ithin 15 days	s after receipt.	and receipt. Die	ADDIOVAL			<del> </del>	-	11
	•					<u> </u>	-	+	-	1.
Block 14: Submit el	ectronically, pla	ced on MAII	NGATE Custom	er Collaboration E	-Room and			1.	-	ľ
mail notification se	ent to:							1	1	Ţi
neil.hoff@navy.mil	and									1
										1.
arry.stotts@darpa.	<u>mii</u>									];
										]i
										<u> </u>
										<b>-</b> [:
								1.	┼	<b>¦</b> ¦
								<del> </del>		-li
								-	+	_16
							-	+		- !
							-	+	-	╣
								+-		-fi
								+	+	1
				,				-	+	1!
								+		1
								1	<b>T</b>	<b>1</b> i
										1
	•								1	1!
										][
										]
						15. TOTAL		2	0	<b>_</b> i
G. PREPARED BY		H. DATE 12 June 200	09	i. APPRO Robin Sw			J. D/	ATE		1
			<del></del>	I WOOM SW	anosni		- 1			61

Attachmenta

(1 Data Item)

orm Approved OMB No. 0704-0188

ŀ

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

PRODUCTION UNIT COST (PUC) ESTIMATE   6. REQUIRING OFFICE   DARPA/STO   14. DISTRIBUTION   Reg   Repro	CONTRACT LINE ITEM NO. ALL	B. EXHIBIT B		C. CATEGORY:	TDP	TM OTHER _N	/ISC			1	
3. SUBTITLE PRODUCTION UNIT COST (PUC) ESTIMATE  6. REQUIRING OFFICE DARPA/STO  SUBMISSION 14. DISTRIBUTION AC SSEQUENT  SSC-PAC/COTR DARPA/STO DARPA/STO DARPA/CMO DA		CONTRACT/PR NO R0011-09-C-0083	).							1	
PRODUCTION UNIT COST (PUC) ESTIMATE   18.ES TOTAL   18.E	. DATA ITEM NO. 2. TITLE OF DAT									17. PRI	
DARPA/STO	A020 SCIENTIFIC A	ND TECHNICAL F	REPORTS		PRODUC	CTION UNIT COST (P	UC) EST	IMATE		I GROU	
AC   BISEQUENT	. AUTHORITY (Data Acquisition Docum DI-MISC-80711A/T	ment No.) 5. CO CSO				DARPA/STO					
A. ADDRESSEE    Draft   Final   Reg   Repro	DD 250 REQ 9. DIST STATEMENT	10. FREQUENCY QRTLY		2. <b>DATE OF 1ST S</b>		14. DISTRI					
SSC-PAC/COTR   O   1   0	ARRICORE	11. AS OF DATE	·			· ADDDESSEE			ı L		
SSC-PAC/COTR 0 1 0 DARPA/STO 0 2 0 DARPA/CMO 0 1 0  Infidence in  Institute of a bill on labor vs. meaning ation of meeting the of the hitor progress  E-Room and	N/A CODE	N/A		A	Draft Reg Repro						
ctors.  DARPA/CMO  1 0  Infidence in  DARPA/CMO  1 0  DARPA/CMO  DAR	6. REMARKS								li .		
isting of a bill on labor vs. meaning attorn of meeting the of the nitor progress  E-Room and						DARPA/STO	0	2	0	ı	
isting of a bill on labor vs. meaning ation of meeting the of the nitor progress  E-Room and	Block 9: C: Distribution authorized to	US Government	agencies a	nd their contracto	ors.	DARPA/CMO	0	1	0	<u> </u> !	
isting of a bill on labor vs. meaning ation of meeting the of the nitor progress  E-Room and			nonstrate progressive maturity and confidence in					<b> </b>			
on labor vs. meaning ation of meeting the of the nitor progress  E-Room and	Block 10: Draπs provided quarterly broduct. Final due at contract comp		ogressive n	naturity and confidence in					li 💮		
on labor vs. meaning ation of meeting the of the nitor progress  E-Room and	·								ļı .		
on labor vs. meaning ation of meeting the of the nitor progress  E-Room and	Contractor Format							<u> </u>	ļ!		
on labor vs. meaning ation of meeting the of the nitor progress  E-Room and	The PUC estimate shall be substant								<b>!</b> !		
meaning ation of meeting the of the nitor progress  E-Room and	of materials, vendor quotes for the to										
ation of meeting the of the nitor progress  E-Room and	processes and associated yield/lear material content. The estimate shal							ļ			
age	specific configuration, quantities of e	each component, a	associated	SWAP, application	on of			-	1		
E-Room and	appropriate rates and factors, pro ra	ata of special test e	equipment/f	tooling, etc. for m	eeting the			ļ	<b>!</b> !		
E-Room and	per unit cost pe	should provide the	ability to u	nits at the end of indate and monite	ine or progress		- <del> </del> - ·		<b>!</b> !		
age	owards meeting unit cost throughou	ut the duration of the	he program	1.	or progress				{;		
age	Block 14: Submit electronically, plac	ced on MAINGATE	= Customor	· Callaboration E	Boom and			-		-li	
	email notification sent to :	ced on MAINGATE	- Customer	Collaboration	Room and			+	<del> </del>	1	
								<del> </del>		-1!	
	neil.hoff@navy.mil						-	<del> </del> -		-!!	
	larry.stotts@darpa.mil							-	<del> </del>	1;	
	patrick.bailey@darpa.mil and							+	<del>                                     </del>	-li	
	battick.bailey@daipa.ttili							<del>                                     </del>	<del> </del>	1	
	robin.swatloski@darpa.mil							+	+	<b>-</b>  !	
								+		1!	
	Electronic submissions shall be via	access to the DAF	RPA Extrar	net reporting page	•		1	+	<u> </u>	վ՝	
15 TOTAL	www.tfims.darpa.mil			,				+	+	<b>1</b> i ⋅	
15 TOTAL				•			<del></del>		<del>                                     </del>	<b>1</b> i	
15 TOTAL									-	<b>-</b>  1	
15 TOTAL			-					+-	+	1!	
15 TOTAL							1		<del>                                     </del>	1:	
15 TOTAL								+-		†¦	
15 TOTAL								+-	+	Ti	
15 TOTAL								-	1	<b>-</b>  1	
15 TOTAL							<del>-  </del>	-	-	†1	
10.101712	·					15. TOTAL→	0	4	0	<b>- </b> !	
	G. PREPARED BY	H. DATE 12 June 2009		I. APPROV	ED BY	<u> </u>				⊢!	

AHARAMAN A

(1 Data Item)

rm Approved OMB No. 0704-0188

h

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Devis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE I		B. EXHIBIT	В	C. CATEGORY:		TM	OTHER _M	IGMT	_		1
D. SYSTEM/ITEM MAINGA	TE	E. CONTRACT HR0011-09-0			F. CONTR	ACTOR THEON CO	MPANY				i 1
1. DATA ITEM NO.	2. TITLE OF I	DATA ITEM			3. SUBTIT	LE					17. PRICE GROUP
A021	CONTRACT	FUNDS STA	TUS REPORT (C	CFSR)							1
4. AUTHORITY (Data DI-MGMT-81468	Acquisition Do	cument No.)	5. CONTRACT F CSOW	REFERENCE		6. REQUIR DARPA/S	ING OFFICE TO		-		18. ESTIMATE TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY 1	2. DATE OF 1ST S	UBMISSION	14.	DISTRIE				li l
8. APP CODE	O TATEMENT	11. AS OF		13. DATE OF SUBS	FOUENT	2 ADD	RESSEE		o. COP		
N/A	D	11. AS OF		SUBMISSION **	EQUENT	a. 700	NEOOLE.	Draft	Reg	Repro	<u> </u>
16. REMARKS	1		<del></del>			DARPA/C	МО	0	1	0	li
The report shall cor	ntain forecasts	by month for	the next six mont	hs by quarter for	the	DARPA/S	TO	0	2	0	<u>J</u> ı
remaining fiscal year	ar, and by year	r for the remai	ning fiscal years.	CFSR data shall	l be	SSC-PAC	COTR	0	1	0	]!
reconciled to the Go end does not coinci				if the contractor's	fiscal year	DCMA/AC	00	0	1	0	li.
* The last day of the government's fiscal		monthly accou	inting period nea	rest the end of the	Э						]; ];
** The initial submis	period neare	st the end of th	ne first governme	ent fiscal year qua	rter after						]! ]!
contract award. Su Block 9: D: Distribu	•										
only.	nion authorize	d to Departme	int of Delense an	d 0.5. Dod Conti	actors						1
Block 14: Submit e email notification se		placed on MAI	NGATE Custome	er Collaboration E	-Room and						<u> </u>
neil.hoff@navy.mil	and										1
larry.stotts@darpa											<u>-</u>
patrick.bailey@dar									-	┼─	-{:
robin.swatloski@d	arpa.mi							-	+	+	-li
Electronic submiss www.tfims.darpa.n		via access to t	he DARPA Extra	net reporting pag	e						-l <u>i</u>
	,								-	-	- -
							·	-	+	1	- <u>f</u> i
											]! -
										+	-1.
											_j¦
									-		<b>⊣</b> i
						15. TOTA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			0	1
G. PREPARED BY		H. DATE		I. APPRO	VED BY	15. 1014	\L	J. D.	5 ATE	0	-¦;
		12 June 20	09	Robin Sw						-	_ji
DD Form 1423-	1, JUN 90 (E	EG)	Previo	us editions are o	bsolete		Page _21_	of _31	Page	es	7!

Attachment a

(1 Data Item)

orm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

ı			ICL	TM OTHER _FN	TDP	C. CATEGORY:	В	B. EXHIBIT	LIN 0004	0002 and Cl
l:				ACTOR THEON COMPANY	F. CONTRA			CONTRACT/ R0011-09-C	I	SYSTEM/ITEM MAINGAT
17. PRICE		-			3. SUBTITE				2. TITLE OF DA	DATA ITEM NO.
II GROOF			21-2	M 1921, 1921-1 AND 19	DD FORM	NG (CCDR)	TA REPORTI	R COST DA	CONTRACTO	A022
18. ESTIN				6. REQUIRING OFFICE DARPA/STO		REFERENCE	5. CONTRACT			AUTHORITY (Data A DI-FNCL-81565B,
lil .				14. DISTRIBI	UBMISSION	12. DATE OF 1ST S	IENCY TRLY	10. FREQU	9. DIST STATEMENT	DD 250 REQ LT
<u> </u>		c COPI		a. ADDRESSEE	FOUENT	13. DATE OF SUBS				APP CODE
<del>{</del> !	Repro	Reg	Draft	a. ADDICEGOLE	EQUENT	SUBMISSION *	*	11. AS OF	D	APP CODE
Ţi	0	1	0	SSC-PAC/COTR		-		1		6. REMARKS
]!	0	2	1	DARPA/STO	tuled	f there are no sched	chnical effort i	and of the te	nd etc. or at the e	DR CDR TRR an
]]	0	1	0	DARPA/CMO	, diod	there are no some	crimoar chort r	and of the te		vents such as desc
-li	0	1	0	DCMA/ACO				l.	ally as generated	Submit electronica
†!		-	-		1021-1	e DD Forms 1921	etimates on th			
1						ne DD Forms 1921, 2. The CCDR subr				
ji						ware Data Reportin			nt with the capita	
]:									5000.04-W-1.	renected in DOD
- -					ractors	and U.S. DoD Cont	nt of Defense	o Departme	tion authorized t	ock 9: D: Distribut
-1!			<del> </del>		4'		IOATE E D.		la -4:	•
-¦;	<del>                                     </del>	<u> </u>	+		ation sent	m and email notifica	NGATE E-ROO	cea on MAII	ectronically, plac	ock 14: Submit el
ji										eil.hoff@navy.mil
-										
-li	-	-	-							rry.stotts@darpa.
1		<del> </del>							pa.mil and	atrick.bailey@darp
]									arpa.mi	bin.swatloski@da
		-	-		е	tranet reporting pag	ne DARPA Ex	access to t		
⊣i	1-	-	<del> </del>	-					nil	ww.tfims.darpa.m
†!	1	1	<del>                                     </del>							
];										
<u>]</u> ı										
- ¦	-									
li	-	-		<u> </u>						
- ı	-	-	+							
-	-	+								
<b>⊣</b> i										
Į.										
_										
	-									
<b>—</b> !	-		- 4	15 TOTAL						
<b>-</b>	0	5 ATE	J. D.	15. TOTAL→	VED BY	I. APPRO		H. DATE		G. PREPARED BY
ľ		A1E	J. D.			Robin Sw	09	12 June 200		

Altachment 2

Public reporting burden for this coneeded, and completing and revine Department of Defense, Washing and Budget, Paperwork Reduction the Contract/PR No. listed in least contract.	iewing the collection gton Headquarters S on Project (0704-018	of information. Send co Services, Directorate for I	mments regarding this to nformation Operations a	ourden estimate or any off and Reports, 1215 Jeffers	ner aspect of this collect on Davis Highway, Suite	ion of informa a 1204, Arling	ation, including sugg ston, VA 22202-4302	2, and to the Office	ing this bute of Mana	irden, to agement
A. CONTRACT LINE IT		B. EXHIBIT	В	C. CATEGO		TM	_ OTHER_	_MISC		
D. SYSTEM/ITEM MAINGA	TE	E. CONTRACT HR0011-09-C			F. CONTR		I COMPANY			
1. DATA ITEM NO.	2. TITLE OF	DATA ITEM			3. SUBTIT	LE				
A023		H & DEVELOP SUMMARY	MENT PROJEC	CT (R&D)	FUNDING	G REPO	RT			
4. AUTHORITY (Data DI-MISC-81612B/T		Pocument No.)	5. CONTRACT	REFERENCE		6. REQ DARP	<b>UIRING OFFI</b> A/STO	CE		
7. DD 250 REQ LT	9. DIST STATEMEN	10. FREQU	JENCY or for agreed	12. DATE OF 1S	T SUBMISSION	14.	DISTE	RIBUTION		
8. APP CODE		11. AS OF		13. DATE OF SU	IDSECHIENT				b. COP	IES nal
N/A	D	11. 83 06	*	SUBMISSION *		a. /	ADDRESSEE	Draft	Reg	Repro
16. REMARKS	<u> </u>					SSC-F	AC/COTR	0	1	0
THIS REPORT SHA	ALL NOT CO	NTAIN CLASS	IFIED INFORM	ATION		DARP	A/STO	0	2	0
QTRLY or for agree					Il be issued or					· .
* As of the last day and 30 Jun for the c					pt, 31 Dec,					
** Submit 15 calend	lar days afte	r Block 11 time.							-	-
Contractor Format										
Block 9: D: Distributionly.	tion authoriz	ed to Departme	nt of Defense a	and U.S. DoD C	ontractors					-
Block 14: Submit e and email notification		, placed on MAI	NGATE Custo	omer Collaborati	on E-Room					
neil.hoff@navy.mil	and									
larry.stotts@darpa.	<u>mil</u>									
Patrick.bailey@dar	pa.mil								-	1
Electronic submiss www.tfims.darpa.m		e via access to t	he DARPA Ext	ranet reporting p	oage					
		*								
						-			-	-
									<del> </del>	
									-	-
									+	-
										1
						45	OTAL			<del>  </del>
G. PREPARED BY		H. DATE		LADD	ROVED BY	15. 1	OTAL	→ 0 J. D	ATE	0
S. I REPARED BY					Swatloski			1 3. 0	AIE	
		12 June 20	09							

(1 Data Item)

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page 23\_ of 31\_ Pages

OMB No. 0704-0188



(1 Data Item)

rm Approved OMB No. 0704-0188

h

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No, listed in Block E.

CONTRACT LINE I. ALI		B. EXHIBI	т , В	C. CATEGORY:	TDP	TM	OTHER M	IISC			!
. SYSTEM/ITEM	E	. CONTRACT	/PR NO.		F. CONTR	ACTOR					1 1
MAINGA DATA ITEM NO.	TE H	IR0011-09-0	C-0083		THE RAY	THEON CO	MAPNY				17. PRICE
A024	RESEARCH 8		MENT (R&D) PF	ROJECT		T INFORMA	ATION AND	DESCF	RIPTIO	N	GROUP
. AUTHORITY (Data DI-MISC-81612B/		ument No.)	5. CONTRACT I	REFERENCE		6. REQUIR	ING OFFICE				18. ESTIMA
. DD 250 REQ	9. DIST	10. FREQ	UENCY	12. DATE OF 1ST S	UBMISSION		DISTRIE	BUTION			
LT	STATEMENT		ASREQ	**					b. COPI	IES	
. APP CODE N/A	С	11. AS OF		13. DATE OF SUBS SUBMISSION **	EQUENT	a. ADD	RESSEE	Draft	Fin Reg	nal Repro	1
6. REMARKS	· · · · · · · · · · · · · · · · · · ·					SSC-PAC	/COTR	0	1	0	1
HIS REPORT SH	ALL NOT CONT	AIN CLASS	IFIED INFORMA	ATION		DARPA/S	ТО	0	1	0	1 1
As of 31 Mar, 30	Jun, 30 Sept and	d 31 Dec,									1
* Submit 15 calend											1
Contractor Format											]  -
Block 9: C: Distribu	ition authorized (	to US Govei	rnment agencies	and their contract	ors.				-		1
Block 14: Submit e email notification se		ced on MAi	NGATE Custome	er Collaboration E	Room and						1
neil.hoff@navy.mil	and		<i>3</i>						<u> </u>		
arry.stotts@darpa	<u>.mil</u>								-	-	
											]i
											1
			•								
											] <b>!</b> - i
											- <b> </b>     1
											_   
											]ı - i
	F										- 1  1
											-
÷											]i
									1		<b>ქ</b> i <b>ქ</b> i
											<u></u>
G. PREPARED BY		H. DATE 12 June 20		I. APPRO	/ED BY	15. TOTA	\L→	0 <b>J</b> . <b>D</b> .	2 ATE	0	-{:

Altachment-2

(1 Data Item)

rm Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jafferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBI	т В	C. CATEGORY:	TDP	TM OTHER _M	IISC			1
D. SYSTEM/ITEM MAINGA		: CONTRACT/PR NO. HR0011-09-C-0083			F. CONTRACTOR Raytheon					i
						3. SUBTITLE				
A025	RESEARCH &	RCH & DEVELOPMENT (R&D) PROJECT TECHNIC				CAL STATUS REPORT	Γ			GROUP
4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE CSOW					6. REQUIRING OFFICE DARPA/STO				18. ESTIMATE TOTAL PRICE	
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQ		12. DATE OF 1ST S	UBMISSION	14. DISTRIE	BUTION			<b>!</b> :
8. APP CODE			QRTLY **			ADDRESSEE	b. COPIES			ļiL
N/A	С	11. AS OF		13. DATE OF SUBS SUBMISSION **	EQUENT	a. ADDRESSEE	Draft	Reg	Repro	
16. REMARKS						SSC-PAC/COTR	0	1	0	]i
THIS REPORT SHA	ALL NOT CONT	AIN CLASS	IFIED INFORMA	TION		DARPA/STO	0	1	0	]] 
* As of 30 Sep, 31 [	Dec, 31 Mar and	30 Jun								1
** Submit 15 calend	lar days after B	lock 11 time.					-		<u> </u>	-[i
Contractor Format			•							<u>l</u> i
Block 9: C: Distribu	tion authorized	to US Gove	rnment agencies	and their contract	ors.			ļ		1
Block 14: Submit el email notification se	ectronically, pla ent to:	iced on MAI	NGATE Custome	er Collaboration E-	Room and					- I
neil.hoff@navy.mil	and								-	
larry.stotts@darpa.										]
									-	- -
•					•					1
							-	ļ	-	-1.
										_i
								-	<u> </u>	
									-	- <u>l</u> i
								<del> </del>	-	1
										<u> </u>
								ļ		-
								-	<del></del>	-1
÷										<b>_</b>
								-		-
										-  <sub>1</sub>
								-	-	-{i
						15. TOTAL→	0	2	0	
G. PREPARED BY		H. DATE 12 June 20	09	l. APPRO\ Robin Sw			J. D.	ATE		1
DD Form 1423-	1, JUN 90 (E	3)	Previo	us editions are o	bsolete	Page _25_	of _31	Page	es	

(1 Data Item)

m Approved OMB No. 0704-0188

li

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

Total Pri
I 18. ESTIMA TOTAL PRI
I 18. ESTIMA TOTAL PRI
18. ESTIMA TOTAL PRI ES al
ES al Repro
ES al Repro
al Repro
al Repro
Repro
0
1
i
<u> </u>
<del>                                     </del>
i i
1
1
1
i
<u>  </u> !
<del>  </del> ;
<del>                                     </del>
1
1
i
——i
1
<u> </u>
ļ!

AHachmanta

(1 Data Item)

m Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:		TM _X OTHER _			1	1
			CONTRACT/PR NO. R0011-09-C-0083		F. CONTR			<u> </u>		1   
. DATA ITEM NO.	2. TITLE OF DA									17. PRIO
A027	SCIENTIFIC & TECHNICAL REPORTS OPERATION					TONS MANUAL / TRA	AL	I		
, , ,					6. REQUIRING OFFICE DARPA/STO				18. EST TOTAL	
. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY TIMES	12. DATE OF 1ST S	UBMISSION	14. DISTRIE			KI:	
B. APP CODE				13. DATE OF SUBSEQUENT		a. ADDRESSEE		b. COP		نكان
N/A	С	11. AS OF DATE		13. DATE OF SUBS	EQUENT		Draft	Reg	nal Repro	
6. REMARKS				L		SSC-PAC/COTR	0	1	0	1
*4TIMES means issued prior to readiness reviews for each of the three demos as well as at the conclusion of the technical effort. In addition, any other design changes to the effort.					DARPA/STO	0	1	0	 	
Distribution to DTIC	shall only be th	rough the C	OTR.							! !
** Submit 15 days prior to the readiness reviews and 30 days after conclusion of the technical effort.									! !	
Contractor Format			·				-			
Approval/disapprov	al by letter from	the COTR v	within 30 days	after receipt.						
**Disapproval requomments.	uires correction/	resubmissio	n with 30 days	after receipt of COT	R					I I
Submit reproducible on media compatible with MS-Office for Windows							-		  -	
Block 9: C: Distribution authorized to US Government agencies and their contractors.									]	
Block 14: Submit e email notification s	lectronically, pla ent to:	aced on MAI	NGATE Custo	mer Collaboration E	-Room and					
neil.hoff@navy.mil	and									ji
arry.stotts@darpa	<u>.mil</u>									<u> </u>
								-	-	1
										];
								-		1
										1;
							-	-	-	-[:
•								1		1
										- - - - - -
						15. TOTAL→	0	2	0	
G. PREPARED BY	REPARED BY H. DATE 12 June 2009 I. APPROVED BY Robin Swatloski			J. DATE				7!		

AHaemment-2

### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

m Approved OMB No. 0704-0188

h

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquanters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBI	т В	C. CATEGORY:	TDP	TM 0	OTHER S	ESS			1
D. SYSTEM/ITEM MAINGAT	TE	E. CONTRACT HR0011-09-0		<u> </u>	F. CONTR						 
1. DATA ITEM NO.	2. TITLE OF	DATA ITEM			3. SUBTIT	LE					17. PRICE GROUP
A028	TECHNICA	L REPORT - S	STUDY/SERVICE	ES	INTERFA	CE CONTR	ROL DOCU	MENT (I	CD)		I ONOG!
4. AUTHORITY (Data A DI-CMAN-81248A		ocument No.)	5. CONTRACT F CSOW	REFERENCE		6. REQUIRI DARPA/S	NG OFFICE TO				18. ESTIMAT TOTAL PRIC
7. DD 250 REQ LT	9. DIST STATEMEN	10. FREQ	UENCY BTIMES	12. DATE OF 1ST S	UBMISSION	14.	DISTRIE				lil .
8. APP CODE		11. AS OF		13. DATE OF SUBS	EOLIENT	a ADD	RESSEE		o. COPI Fin		ļ! <b>L</b>
N/A	С			SUBMISSION *	EQUENT	a. ADD	TEOOLE	Draft	Reg	Repro	<u> </u>
16. REMARKS	1					SSC-PAC	/COTR	0	1	0	li
						DARPA/S	ТО	0	1	0	]
											][
Block 9: C: Distribut	tion authorize	ed to US Gover	nment agencies	and their contract	ors.			-			li i
Contractor Format											Į!
Block 10: 3TIMES n design changes to ti		d prior to each	of the three, dem	os. In addition, a	ny other						
								-	-		{i
* Submit as generat Block 14: Submit ele	ectronically,	placed on MAI	NGATE Custome	er Collaboration E	Room and						- 1 - 1
email notification se	ent to:	•							1		1
neil.hoff@navy.mil	and										1
larry.stotts@darpa.	<u>mil</u>								<del></del>		-  -
								_	-	1	-li
									+		-[1
									<b>†</b>	<del> </del>	-[]
											<b>1</b> i
											]ı
											][
									ļ.		-1;
						-					_ i
									-	<del> </del>	- !
								<u> </u>		-	-¦;
											- i
									<del>                                     </del>		7!
											];
											_li
											<b>_!</b> !
											-{¦
											⊣i
							···			-	<b>-</b>  !
						15. TOTA	\L	0	2	0	-[:
G. PREPARED BY		H. DATE 12 June 20	009	I. APPRO Robin Sw				J. D.	_		<b>T</b> i
DD Form 1423-	1. JUN 90	(EG)	Previo	ous editions are o	bsolete		Page _28_	of 31	Page	es	_:

Attachment 8

#### CONTRACT DATA REQUIREMENTS LIST

m Approved OMB No. 0704-0188

(1 Data Item)

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden estimates of this collection of information, including suggestions for reducing this burden estimates of this collection of information of the suggestion aspect of this collection of information of the suggestion of the sugges

G. PREPARED BY		H. DATE		I. APPRO		15. TOTAL→	0 J. D	2 ATE	0
						45 TOTAL - 2		2	0
						-,			1
							1		1
								-	
								-	-
									-
-									
								+	-
									-
			٠.					-	
								-	
								1	
								-	<del> </del>
									-
							_		
rry.stotts@darpa	ı.mil								
eil.hoff@navy.mil	and								
	•								
lock 14: Submit e mail notification s		olaced on MAII	NGATE Custo	mer Collaboration E	-Room and				
ontractor Format	•								
			<b>J</b> = 1.01						
lock 9: B: Distribu	ition authorize	d to US Gover	nment agenci	es only.					
						DARPA/STO	0	1	0
6. REMARKS						SSC-PAC/COTR	0 .	1	0
N/A	В		N/A	SUBMISSION			Draft	Reg	Repro
APP CODE	-	11. AS OF		13. DATE OF SUBS		a. ADDRESSEE		o. COP	
DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	UENCY Once	12. DATE OF 1ST S		14. DISTRII	BUTION		
. AUTHORITY (Data DI-IPSC-81488/T	Acquisition Do	ocument No.)	5. CONTRAC	T REFERENCE		6. REQUIRING OFFICE DARPA/STO			-
					<u></u>				
A029		E SOURCE CO	DDE (88C)						
MAINGA DATA ITEM NO.	2. TITLE OF	HR0011-09-C			3. SUBTIT	HEON COMPANY			
SYSTEM/ITEM		E. CONTRACT			F. CONTR				
CONTRACT LINE : AL		B. EXHIBIT	В	C. CATEGORY	TDP	TM OTHER_IF	PSC		

## CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

m Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

							<del></del>			
	TM OTHER _MISC				TDP	C. CATEGORY:	В	B. EXHIBIT		ONTRACT LINE IT
1		· · · · ·			F. CONTRA	<u> </u>		E. CONTRACT HR0011-09-C	<u>-                                      </u>	SYSTEM/ITEM MAINGAT
-					3. SUBTITLE				2. TITLE OF DA	ATA ITEM NO.
				PORT	FINAL REF		AL REPORTS	& TECHNICA	SCIENTIFIC	A030
				6. REQUIRING OFFICE DARPA/STO	- 1	EFERENCE	5. CONTRACT R CSOW	ument No.)		UTHORITY (Data A
				14. DISTRIB	UBMISSION	2. DATE OF 1ST S	JENCY 1 ONE	10. FREQU	9. DIST STATEMENT	DD 250 REQ T
	nai	. COPI		a. ADDRESSEE	FOUENT	3. DATE OF SUBS		11. AS OF		APP CODE
ro	Re	Reg	Draft			UBMISSION ***			С	
_	2	2	2	SSC-PAC/COTR						REMARKS
	1	1	1	DARPA/STO	s ciarified 📙					entific and Techn
	1 1	1	1	DARPA/CMO		WILL FORWAR	GOVERNMENT	35-7011, THE	DFARS 252.23	that, pursuant to PROVED FINAL
	1	1	1	DCMA/ACO	-	on ounce (D no		10 20101100 11	n requirement.	DTIC submission
_										ntractor Format
	+		-		-				echnical effort	t the end of the te
_	#								ck 11	30 days after Bloo
					esentative ew of the	Technical Repre and editorial revi	Contract Officer's des the technical	nail) from the pot. This inclu	al by letter (em ays after receir	proval/disapprova OTR) within 60 da port.
_					COTR	after receipt of 0 e report.	ion within 30 days torial review of th	ns/resubmiss nnical and edi	uires correctior cludes the tech	Disapproval requ
					d is to be	be provided and	oft Word is also t	opy in Micros	. A draft CD co	aft hard copy sha mes New Roman. C compatible. Da ge.
	-				mission.	ded with final sub	<u>.do)</u> is to be inclu	ation page offormslibrary	port documenta v/Portal/gsa/ep	SF Form 298, rep ttp://www.gsa.gov
				<u> </u>	-	ontractors.	ncies and their c	ernment age	ition to US Gov	ock 9: C: Distribu
					d email	Collaboration an	-Room Customer	MAINGATE E	lly, placed on M	ock 14: ubmit electronicall utification sent to:
	1									eil.hoff@navy.mil
	+	-	-						<u>.mil</u> and	rry.stotts@darpa.
	<del>_</del>	-							arpa.mi	bin.swatloski@da
		-	<del> </del>							
	+-	+	-				•			
_	+	1	1							
	$\perp$									
_	$\perp$									
	4	1 4	4 J. DA	15. TOTAL→	/ED BV	I. APPROV		H. DATE		PREPARED BY
			J. UA			Robin Sw	09	12 June 200		NEI ANED DI

#### CONTRACT DATA REQ

REMENTS LIST

rm Approved

(1 Data Item)

( No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget. Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. issted in Block E. A. CONTRACT LINE ITEM NO. **B. EXHIBIT** C. CATEGORY: ALL TM OTHER \_MGMT\_ D. SYSTEM/ITEM E. CONTRACT/PR NO. F. CONTRACTOR MAINGATE HR0011-09-C-0083 THE RAYTHEON COMPANY 1. DATA ITEM NO. 2. TITLE OF DATA ITEM 3. SUBTITLE 17. PRICE GROUP A0031 SYSTEM ASSESMENT REPORT INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) COMMODITY JURISDICTION (CJ) 4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE 18. ESTIMATED **DI-MGMT-80469A** CSOW DARPA/STO TOTAL PRICE 7. DD 250 REQ 9. DIST 10. FREQUENCY 12. DATE OF 1ST SUBMISSION 14. DISTRIBUTION STATEMENT N/A ONE b. COPIES 8. APP CODE a. ADDRESSEE 11. AS OF DATE 13. DATE OF SUBSEQUENT Final D Draft SUBMISSION N/A Α Reg Repro 16. REMARKS SSC-PAC/COTR 1 1 0 DARPA/STO 1 1 0 \* 45 DAC DARPA/CMO 0 0 1 \*\* Contractor will conduct a Critical Program Information (CPI) assessment of the MAINGATE design and operational concept and draft a Commodity Jurisdiction (CJ) request within 45 DAC. DARPA/SPAWAR review of the draft documentation package will precede any formal submission to the US Department of State. Format and content are specified by the Directorate of Defense Trade Controls in accordance with the International Traffic in Arms Regulations (ITAR). (Ref: http://www.pmddtc.state.gov/index.html) Block 9: D: Distribution AUTHORIZED TO THE Department of Defense and U.S. DoD Contractors only. Block 14: Submit electronically, placed on MAINGATE Customer Collaboration E-Room and email notification sent to: neil.hoff@navy.mil larry.stotts@darpa.mil and robin.swatloski@darpa.mil 15. TOTAL -------> 3 n G. PREPARED BY H. DATE I. APPROVED BY J. DATE 12 June 2009 Robin Swatloski

DD Form 1423-1, JUN 90 (EG)

Previous editions are obsolete

Page \_31\_ of \_31\_ Pages

## STRATEGIC TECHNOLOGY OFFICE

Mobile Ad hoc Interoperability Network GATEway (MAINGATE) Program

PE Project Number: 0603760E/CCC-02 APPENDIX A: PROGRAM METRICS

The Performance Metrics have been developed to provide a set of measurable indicators that can be validated during the testing phases and are designed to correlate with anticipated operational scenarios.

PAD ID Number: 090023

MANET GATEWAY  METRICS	<u>CRITERIA</u>	<u>REMARKS</u>
1. Radio	≥ TRL 6	
Frequency Range	VHF/UHF (Low Band)	Use with Omni-Directional Antennas
Bandwidth	Support non-contiguous frequency assignments	Instantaneous Bandwidth must support data rate
Mobility	Ground Speed (0-125 kph) Air Speed (0-250 kph)	HMMWV (typical) UH-60 / C-12 (typical)
Overall Information Rate		
- Low Band (VHF/UHF)	> 6 Mbps (T); > 20 Mbps (O)	
IP Radio Bit Error Rate	$\leq$ 1E-4 (uncorrected), $\leq$ 1E-5 (corrected)	Availability tests over 2 hour period
Adaptive Data Rate	≥ 5 data rates supported	Operation to automatically adjust to highest reliable data rate and thus should extend to low order modulations with narrower bandwidths (e.g. 32 kbps)
RF Link Availability	≥ 95%	Node-to-node when within range
Link Ranges (Ground – Ground)		
- Urban Canyons	200 m (Occluded - LOS)	Horizon is 3.6 km (1.5 mi)
- Suburban	2 km (Occluded - LOS)	Horizon is 3.6 km (1.5 mi)
- Rural	10 km (Occluded - LOS)	Assume elevated antennas
Link Ranges (Air - Ground)	50 km (LOS)	-
Link Margin	6 dB	Required margin for all range/rate measurements
Transmitter Power	≤ 50 W	Must meet system performance requirements in Appendix A, with minor exceptions
2. Security	Secure communications capability (i.e. HAIPE) for end-to-end secure transport that is permissible by the source and destination pair;	
LPD/LPI	None (T)	
	Contractor Provided (O)	
Payload	Required	KG-250 or AES-256 or similar



PERFORMANCE	METRICS
3. Networking	Field demonstration of both ground to ground and air to ground networking supporting one air platform and eleven (11) ground nodes with direct interface to a tactical gateway and supporting up to 64 IP-addressable nodes and 512 IP addressable devices.
	Demonstrate end-to-end connectivity (between tactical gateways) of > 95% reliability with 75% of end-to-end disruptions < 300 sec;
	Conformity to IPv4 protocol standard IPv4 inclusive of link/network security
	Provide network that supports tactical applications
	Latency of the network to support voice operations (without disruptions)  • 300 ms (Threshold for 3 end-to-end hops)  • 150 ms (Objective for 3 end-to-end hops)
	Network formation and Network join times that support tactical operations (without disruptions)  • < 10 seconds (Network Join)
	<ul> <li>&lt; 30 seconds (Network Formation of 10 nodes)</li> <li>Network supports tactical applications including (but not limited to)</li> <li>Sensor Data associated with ISR (e.g. video)</li> </ul>
	<ul> <li>Voice (e.g. VOIP)</li> <li>Peer-to-Peer networking (e.g. distributed CHAT)</li> <li>Network management</li> </ul>
	Supports tactical topologies and routing requirements including (but not limited to)  • Unicast, multicast, and broadcast traffic  • Ad Hoc networks that  • are autonomous, self forming/healing with minimal or no intervention  • dynamically adjust to topology changes
	Network supports network traffic of  80% of traffic is multicast, and 20 simultaneous video streams (nominally 384 kbps), and Normal voice traffic
	Traffic shaping/prioritization to allow resource management of Gateway network traffic.
	Support QoS in standard TCP/IP protocol suite (e.g.)  CS6  Expedited Forwarding  Assured Forwarding  Best Effort

PERFORMANCE	METRICS	REMARKS
4. Gateway		
Data Radio Support		
- Military Radios	EPLRS, MicroLight EPLRS, SLICE/SRW, SecNet11, PRC-117F, SINCGARS	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
- Commercial Radios	802.11g, WiMAX (2.5 GHz), UMTS	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
- Public Safety/Critical Infrastructure Radios	Terrestrial Trunked Radio (TETRA) 4.9 GHz Public Safety Radio	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
Voice Radio Support		
- Military Radios	PRC-117, PRC-119, PRC-150, SINCGARS	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
- Commercial Radios	Family Radio Service (FRS), Cellular, VOIP devices, PSTN	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
- Public Safety/Critical Infrastructure Radios	800 MHz Public Safety Radio	Sufficient modules to provide support for the radios listed and capacity to incorporate new modules for radios not listed
Wide Area Network Support	IPv4, IPv6, etc. enabled Wide Area Network	Support WAN protocols (e.g. BGP, OSPFv2, and IGMP)
- Military Network	Global Information Grid	
- Commercial Radios	Internet	·
Local Area Network Support	IPv4 enabled Local Area Network	
- Military Networks	SATCOM and Terrestrial (e.g. NCR)	
Application Support		
- Routing	Unicast, Multicast, Broadcast	
- Tactical applications	Including (but not limited to)	
	<ul> <li>Sensor Data associated with ISR (e.g. video)</li> <li>Voice</li> <li>Peer-to-Peer networking (e.g. distributed CHAT)</li> <li>Network management</li> </ul>	
Data Capacity	> 100 Mbps	Aggregate capacity for entire Gateway
Ports (bidirectional)	Support:  Three (3) Voice Radios  Three (3) Data Radios  One (1) WAN  One (1) LAN	
Physical	Modular Architecture	Additional radios are added by compatibility with current modules or by new modules.
Frequency Range	Above UHF (High Band)	Use with Directional Antennas
Overall Information Rate	′ .	
- High Band (Above UHF)	> 10 Mbps (T); > 100 Mbps (O)	
Location of Highband Capability	Internal or external to MAINGATE Unit	



ENVIRONMENTAL	METRIC	<u>REMARKS</u>
Antenna Testing	IEEE Standard 149-1979, "Standard Test Procedures for Antennas"	Perform to Standard
	IEEE Standard 1100-	Perform to Standard
	1999,"Recommend Practice for	1 ofform to building
	Powering and Grounding Electronic	
	Equipment"	
Marking Requirements	MIL-STD-27733, "Modification and	Perform to Standard
Warking Requirements	Marking Requirements for Test	1 Citomi to Standard
	Equipment in Aerospace Vehicles and	
	Related Support Equipment"	
EMI/EMC	MIL-STD -461 (EMI/EMC electrical	Perform to Standard
EWII/EWIC		renorm to Standard
	interference testing and isolation	
Elasta i Carra t Tarti	techniques)	Defendend
Electronic Component Testing	MIL-STD -202 (electronic component testing)	Perform to Standard
Environmental Testing	MIL-STD-810F "Environmental	Perform to Standard
	Engineering Considerations and	
	Laboratory Tests." Part II, Laboratory	
	Test Methods	
		Temperature range: -30 C to + 50 C
		(MIL-STD-810F Method 501.4 +
		502.4)
		Method 509.4 - Salt Fog
		Method 520.2 - Temperature,
		Humidity, Vibration, and Altitude
		MIL-HDBK-1568 - material and
	·	processes for corrosion prevention and
		control in aerospace weapons systems
		MIL-HDBK-1250a - corrosior
		prevention and deterioration control in
		electronic components and assemblies
PHYSICAL	METRIC	REMARKS
Size	5U high (8.75") x 21" deep	If proposed, data logging and control
Size	(Fits in standard 19" rack)	computer to be located on separate 2U
	(1715 III standard 19 Tack)	sliding drawer mount (total 19" rack of
		7U). All installations for air/ground
Waight	C15 The	use should be identical system
Weight	≤45 lbs	Credible Design, with supporting Documentation
		Documentation
Power	<400 Watts (max)	Credible Design, with supporting
		Documentation
Aircraft Power	400 Hz AC and 28VDC	If other voltage sources are available
		the contractor can use any available
		extra power as agreed to by the owner
Ground Power	120V 60Hz AC and 24VDC	



<u>PROGRAMMATIC</u>		REMARKS		
Test Sites	Interim Test Site Final Test Site	Interim Test site to be proposed by performer (terrain similar to Ft. Benning) Final Test Site, expected to be Ft.		
		Benning, subject to change by Government		
Test Duration	10 weeks	Inclusive of setup, personnel training, testing, and demonstrations		
Test Participants	- US	All equipment testing and		
- Military Personnel - Coalition	- UK, Canada, Australia, and other NATO	demonstrations must be compatible for operation by non-contractor personnel		
- First Responders Test Equipment	- TBD prior to Program Kickoff 11 Ground MAINGATE Nodes + 2			
rest Equipment	Spare 2 Airborne MAINGATE Nodes			
- Contractor Furnished	Radios	Include associated support equipment (antennas, mounts, connectors, etc)		
	- (2) SATCOM and/or ISR Feed (e.g. ROVER) of same type	These are IPv4 compatible networks		
	- (33) Legacy Radios	One (1) of each type (there are 11) for connection to Gateway and two (2) for outside gateway (nominal)		
	- (21) Commercial Radios	One (1) of each type (there are 7) for connection to Gateway and two (2) for outside gateway (nominal)		
	- (9) First Responder Radios	One (1) of each type (there are 3) for connection to Gateway and two (2) for outside gateway (nominal)		
	Test Vehicles			
	- 10 Ground Vehicles	Including drivers		
	- 2 Air Vehicles	Including pilots		
- Government Furnished				
	Radios			
	- (TBD) Allied Radios	To be determined at Program Kickoff		
Ground Platform for Design	Moving Vehicles (e.g. M998 High Mobility Multipurpose Wheeled Vehicle - HMMWV)	Subject to change by Government		
Air Platform for Design	UH-60, C-12, C130	Subject to change by Government		
COST	METRIC	<u>REMARKS</u>		
Production Unit Cost	\$0\$40	Total sell price to the Government		



Raytheon Company HR0011-09-C-0083 Mobile Ad Hoc Interoperability Network GATEway (MainGate)

## 252.227-7017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation-
  - (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data-Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
  - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.



- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release,

or disclose the following technical data or computer software should be restricted:

Item #	Computer Software (or S/W Documentation) to be furnished with Restrictions	Basis for Assertion*	Asserted Rights Category	Name of Company Asserting Restrictions
1 . '	b)(4)			
2				
3:				
4				
5				
6				
17				
- 32				
			70.0	



ltem #	Computer Software (or S/W Documentation) to be furnished with Restrictions	Basis for Assertion*	Asserted Rights Category	Name of Company Asserting Restrictions
10				
125				
15				
1.6				
= 7				

#### **Patents**

The Raytheon MAINGATE Team anticipates using technology based on the following patents, which have data rights assigned by the inventors to Raytheon Company:

Item #	Item Title	Patent, Disclosure, or Application Number	Name of Company Asserting Restrictions
(b)(4)			
5 5			
7			
8			
9			
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

- \*For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.
- \*\*Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.
- \*\*\*Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).
- \*\*\*\*Corporation, individual, or other person, as appropriate.
- \*\*\*\*\*Enter "none" when all data or software will be submitted without restrictions.

Date 26 June 2009

Printed Name and Title



Raytheon Company HR0011-09-C-0083 Mobile Ad Hoc Interoperability Network GATEway (MainGate)

Signature

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

(End of clause)

Attachment 4

22

## ADVANCE AGREEMENT TO AUTHORIZE INCURRENCE OF PRE-AWARD COSTS UNDER CONTRACT HR0011-09-C-0083

#### **AMENDMENT 6**

Re:

- (a) ARPA Order Y410/00
- (b) Raytheon proposal entitled "Mobile Ad hoc Interoperability GATEway (MAINGATE)", reference number RA536 dated 26 August 2008 submitted in response to DARPA-BAA-08-21 dated 30 May 2008
- (c) Pre-Award Costs Agreement dated 23 March 2009

The Government and Contractor hereby agree to the following changes to reference (c):

FIRST: In the event that a contract is awarded, pre-award costs, not to exceed \$2,000,000 shall be allowable under the contract, provided that the individual cost elements therein shall be:

- (a) otherwise allowable, reasonable, and allocable;
- (b) incurred no sooner than 23 March 2009 or after 26 Jun 2009, and;
- (c) incurred specifically and exclusively to accomplish the work described in the proposal referenced above.

SECOND: Contract terms and conditions shall be agreed to by the earlier of:

- (a) 26 Jun 2009; or
- (b) the date on which the amount of funds obligated, committed or expended under this Advance Agreement is equal to no more than \$2,000,000

THIRD AND FINALLY: It is the intention of the Government to award a contract to the contractor, subject to final agreement on the contract terms and conditions, specifications and price(s), which contract shall incorporate this Advance Agreement. It is understood and agreed by the parties herein that this Agreement concerns the treatment of pre-award costs in the event of a contract. This Agreement does not require the contractor to incur any such costs, and any costs so incurred are strictly at the risk of the contractor, until such time that a contract may be awarded.

#### FOR THE CONTRACTOR:

FOR THE UNITED STATES OF AMERICA DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

(b)(4)

Tactical Communication Systems Raytheon

24 June 2009 Date Robin M. Swatloski
Contracting Officer

24 Jun 09

5 PAGES DENIED IN FULL PURSUANT TO 5 U.S.C. § 552 (b)(2)(High).

AMENDMENT OF SOLICITA	ATION OF CONTRACT	I. CONTR	RACT ID CODE	PAGE OF PAGE		
AMENDMENT OF BOLICITA	LIONWODINC	ATION OF CONTRACT	1	J	1 2	
2. AMENDMENT/MODIFICATION NO. P00001	3. EFFECTIVE DATE 23 JUL 2009	4. REQUISITION/PURCHASE REQ. NO. Y410/00		5. PROJECT	NO.(If applicable)	
6. ISSUED BY CODE  DARPA CMO ATTN: ROBIN SWATLOSKI 3701 N FAIRFAX DR ARLINGTON VA 22203-1714	HR0011	7. ADMINISTERED BY (If other than item of DCMA DETROIT US ARMY TANK & AUTOMOTIVE COMMAN WARREN MI 48397-5000		CODE S230	95A	
8. NAME AND ADDRESS OF CONTRACTOR RAYTHEON COMPANY	(No., Street, County, St.	ate and Zip Gode)	9A. AMEN	DMENT OF SO	LICITATION NO.	
1010 PRODUCTION RD FORT WAYNE IN 46808-4106			9B. DATE	D (SEE ITEM 11	)	
			}	OF CONTRAC 9-C-0083		
CODE 37695	E CH IMI CO	NC.	10B. DATI X 26-Jun-20	ED (SEE ITEM	13)	
	FACILITY COD HIS ITEM ONLY APPL	E IES TO AMENDMENTS OF SOLICITA	1 120 00			
The above numbered solicitation is amended as set			is extended,	is not ext	ended.	
(a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes RECEIVED AT THE PLACE DESIGNATED FOI REJECTION OF YOUR OFFER. If by virtue of the provided each telegram or letter makes reference to	a reference to the solicitation R THE RECEIPT OF OFFEI ais amendment you desire to the solicitation and this ame	RS PRIOR TO THE HOUR AND DATE SPEC change an offer already submitted, such change	UR ACKNOWLEI IFIED MAY RESU may be made by to	OGMENT TO BE JLT IN elegram or letter,		
12. ACCOUNTING AND APPROPRIATION D	ATA (If required)					
		ODIFICATIONS OF CONTRACTS/ORI			×	
A. THIS CHANGE ORDER IS ISSUED PUR CONTRACT ORDER NO. IN ITEM 10A.	SUANT TO: (Specify a			E MADE IN THI	3	
B. THE ABOVE NUMBERED CONTRACTA office, appropriation date, etc.) SET FORT				ich as changes in	paying	
C. THIS SUPPLEMENTAL AGREEMENT I	S ENTERED INTO PUR	SUANT TO AUTHORITY OF:			×	
D. OTHER (Specify type of modification and Bilateral modification by mutual agreemen						
E. IMPORTANT: Contractor is not,	is required to sig	gn this document and return 1	copies to the is	ssuing office.		
14. DESCRIPTION OF AMENDMENT/MODIF where feasible.) Modification Control Number: jjenkins0 See Page 2.		y UCF section headings, including solicit	ration/contract su	bject matter		
				•		
Except as provided herein, all terms and conditions of t	he document referenced in It	em 9A or 10A, as heretofore changed, remains	unchanged and in f	ull force and effect		
(b)(4)		16A. NAME AND TITLE OF CO Robin M. Swatloski, Contra	eting Officer			
(AVA)	15C. DATE SIGNE	TEL: 571-218-4542, 4	EMAIL: Ro	bin.Swatloski@darp	a.mil I6C. DATE SIGNED	
(b)(4)	23 July	09 <u>BY</u>			23 Au DAS	
(Signature of person authorized to sign)  EXCEPTION TO SF 30		(Signature of Contracting O	Hicer)	STANDARD	77/20/	

#### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

#### **SUMMARY OF CHANGES**

The purpose of this modification is to revise the Statement of Work (SOW) at no additional cost to the government.

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The Table of Contents is deleted in its entirety and replaced with the following:

Exhibit/Attachment Table of Contents

MACKINATINET TEXT	DE DE	CODIDT	IAON
DOCUMENT TY	PK DK	SCRIPT	UN

Attachment 1 Attachment 1- Statement of Work (SOW)

Attachment 1A Attachment 1A - SOW Revisions

Attachment 2 Attachment 2 - CDRLs

Attachment 3 Attachment 3 - Program Metrics

Attachment 4 Attachment 4 - Asserted Rights

Attachment 5 - Pre-Contract Cost Authorization

Attachment 6 - DD254

Except as modified above, the terms and conditions of Contract No. HR0011-09-C-0083 shall remain unchanged and in full force and effect.

(End of Summary of Changes)

## Attachment 1 A

## Statement of Work (SOW) Revisions

The parties agree to make the following revision(s) to the Statement of Work for HR0011-09-C-0083:

Revision No.	SOW Section No. and	Deleted	Inserted
	Location	Language	Language
1	3.1.1; MAINGATE EVENT DIRECTORY; Event B	"4 <sup>th</sup> Month"	"5 <sup>th</sup> Month"

		THE RELEASE DESCRIPTION OF THE PARTY OF THE		,-,-==	1	2
MENDMENT/MODIFICATION NO. P00002	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. Y410/00		5. PROJECT	NO.(If applic	able)
SSUED BY COD ARPA MO TTN: ROBIN SWATLOSKI 701 N FAIRFAX DR RLINGTON VA 22203-1714	E ,HR0011	7. ADMINISTERED BY (If other than item DCMA DETROIT US ARMY TANK & AUTOMOTIVE COMMAI WARREN MI 48397-5000	-,	CODE S230	5A	
NAME AND ADDRESS OF CONTRACT	OR (No., Street, County, St	ate and Zip Code)	9A. AMENI	DMENT OF SOI	LICITATION	N NO.
RAYTHEON COMPANY 1010 PRODUCTION RD FORT WAYNE IN 46808-4106			9B. DATED	(SEE ITEM 11	)	/
			X 10A. MOD. HR0011-08	OF CONTRAC 2-C-0083	T/ORDER N	10.
DE 37695	EACH ITY COL		10B. DATE X 26-Jun-200	D (SEE ITEM :	(3)	
	FACILITY COL 1. THIS ITEM ONLY APPL	JES TO AMENDMENTS OF SOLICITA				
The above numbered solicitation is amended as		and date specified for receipt of Offer  pecified in the solicitation or as amended by or	is extended,	is not ext	ended.	
REJECTION OF YOUR OFFER. If by virtue	of this amendment you desire to ace to the solicitation and this am	RS PRIOR TO THE HOUR AND DATE SPE change an offer already submitted, such chang endment, and is received prior to the opening h	e may be made by tel	legram or letter,		
		ODIFICATIONS OF CONTRACTS/OR				
A. THIS CHANGE ORDER IS ISSUED CONTRACT ORDER NO. IN ITEM	PURSUANT TO: (Specify a	ORDER NO. AS DESCRIBED IN ITEM authority) THE CHANGES SET FORTH		MADE IN THE	 }	
B. THE ABOVE NUMBERED CONTRA office, appropriation date, etc.) SET F C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification	ORTH IN ITEM 14, PURSU NT IS ENTERED INTO PU	IANT TO THE AUTHORITY OF FAR 4		ch as changes in	paying	
Bilateral modification by mutual agree	ment of the parties.					. 4
IMPORTANT: Contractor is n	i de la compansión de la c	ign this document and return 1	copies to the is			
DESCRIPTION OF AMENDMENT/MO where feasible.)     Modification Control Number: jjenk See Page 2.	DDIFICATION (Organized ins10100	by UCF section headings, including solic	itation/contract sub	oject matter		
				,		
	·					
cept as provided herein, all terms and condition  A. NAME AN(b)(4)	s of the document referenced in pe or print)	Item 9A or 10A, as heretofore changed, remain 16A, NAME AND TITLE OF C Robin M. Swatloski, Cont	ONTRACTING O			* * *
)(4)	LICO DATE OF CHILD	TEL: 571-218-4542 ED 16B. (5)(6)	EMAIL: Rot	oin.Swatioski@darp		~
	isc. date sign	∞9   BY			6C. DATE S	SIGNE
XCEPTION TO SF 30		(Signature of Contracting	Officer)	CTANDARA	7 Kle	20
PPROVED BY OIRM 11-84		30-105-04		STANDARD Prescribed by FAR (48 CFR	GSA	(ev. 1)

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## SUMMARY OF CHANGES

The purpose of this modification is to revise the second and third sentences of Section 3.10.3 of the Statement of Work (SOW), and revise CDRL 31. Accordingly, the SOW (Attachment 1) and CDRL 31 (Attachment 2) are entirely replaced, and Section J is revised.

# SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The Table of Contents is deleted in its entirety and replaced with the following:

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION
Attachment 1	Attachment 1- Statement of Work (SOW) [Revised 13 NOV 09]
Attachment 2	Attachment 2 - CDRLs [Revised 13 NOV 09]
	Attachment 3 - Program Metrics
Attachment 3	Attachment 4 - Asserted Rights
Attachment 4	Attachment 5 - Pre-Contract Cost Authorization
Attachment 5	
Attachment 6	Attachment 6 - DD254

Except as modified above, the terms and conditions of Contract No. HR0011-09-C-0083 shall remain unchanged and in full force and effect.

(End of Summary of Changes)

#### Section III A – Statement of Work for MAINGATE

#### 1.0 SCOPE

The objective of the Mobile Ad hoc Interoperability Network GATEway (MAINGATE) program is to develop the next generation Network Centric Radio System (NCRS) with additional capabilities and an assured, affordable unit price to the user. MAINGATE will be a connection point that allows a multitude of users, employing a heterogeneous set of radio technologies (both proprietary and nonproprietary) on different subnets, to attach to and communicate through an IP Network tolerant to high latency and packet loss. The technologies developed for the program will permit affordable, tactical, real-time, high fidelity video, data, and voice services to be deployed in a networked environment to support tactical operations in either maneuver or dismounted operations. As a result of this effort, DARPA expects a clear demonstration of advanced mobile ad hoc network (MANET) gateway technology with basic Spatial Diversity MIMO capability and Dynamic Spectrum Access (DSA) that allows coexistence with communications and CREW systems. It will incorporate a Wireless IP-capable Network (WIPN), which provides interconnectivity between nodes bridging heterogeneous mixtures of radio networks. The output of this program will be a demonstrated suite of hardware and software components that can be configured for specific DoD, coalition, and first responders/public safety requirements and provide the threshold overall information rate to the user, defined as the application payload information rate. The specific program requirements are in Appendix A of the Broad Agency Announcement and take precedence over all other technical information provided in this SOW. Appendix A of the BAA is incorporated by reference. Each metric in Appendix A will be considered fully compliant only if it can be achieved concurrently with all other fully compliant metrics. All fully compliant metrics should be considered to be pre-conditions for meeting other metrics.

This Statement of Work (SOW) defines tasks and responsibilities of the Raytheon Team (hereinafter "contractor") required to complete the defined deliverables for Defense Advanced Research Projects Agency (DARPA) and their selected agent, the Space and Naval Warfare Systems Command (SPAWAR) System Center Pacific (SSC PAC), (hereinafter "Government") as part of the Mobile Ad hoc Interoperability Network GATEway (MAINGATE) basic award (Advanced Concept Technology (ACT) phase), CONUS Limited User Testing Production and Test Support (Options 1 and 2), and OCONUS LUT Production and Test Support (Options 3 and 4). The Contract Line Item Numbers (CLINS) associated with each option are listed in Figure 1.0. The Contractor shall provide the engineering and management services as described in this SOW for development, testing, and production of the MAINGATE hardware, software, and documentation.

#### Figure 1.0: Option and CLIN Titles for MAINGATE Program

#### Basic: Advanced Concept Technology (ACT) phase

CLIN 0001 - Advanced Concept Technology (ACT) phase including quantity 20 MAINGATE
Node systems with Spatial Diversity Multiple Input / Multiple Output (SD MIMO) and
Next Generation Dynamic Spectrum Access (XG) functionality.\*

### Option 1: Preproduction units

CLIN 0002 - Quantity MAINGATE Node systems with quantity 200 operator consoles and quantity 200 AC power adapters.\*\*

#### **Option 2: CONUS Test Support**

CLIN <u>0003</u> – Support and Training (including materials) to CONUS Demonstration.

Option 3: Preproduction units

CLIN 0004 - Quantity MAINGATE Node systems with quantity 200 operator consoles and quantity 200 AC power adapters for vehicular installations.\*\*

## **Option 4: OCONUS Test Support**

CLIN 0005 - Support and Training (utilizing CONUS materials) to OCONUS Demonstration.

- \* This CLIN includes an additional 5 units beyond the 15 to support lab integration/support. The 5 additional units will be lab assets that may have been altered, modified or degraded during testing. These units will be operational for lab use but may not be ruggedized for all environmental and field conditions. The ACT MAINGATE nodes and ancillaries include the following:
  - 2-channel WIPN (dual RF, BCP, NCP hardware)
  - Gateway
  - Operator console
  - Power Adapter
  - GPS, Wi-Fi, Cell, and WIPN Antennas
  - Installation cables for power and antennas
  - Any legacy external radios and cables purchased on the contract
- \*\* The LUT MAINGATE nodes and ancillaries include the following:
  - 2-channel WIPN (dual RF, BCP, NCP hardware)
  - Gateway
  - Operator console (qty. 200)
  - A/C Power Adapter (qty. 200)

#### 2.0 APPLICABLE DOCUMENTS

The documents listed hereunder form a part of the SOW and are provided for guidance. In the event of conflict between the documents referenced and this SOW, the SOW takes precedence.

#### 2.1 Government Documents

Document No.	Document Description Document Date
DARPA-BAA08-21	Mobile Ad hoc Interoperability Network GATEway (MAINGATE) 30 May 2008
	Broad Agency Announcement (BAA)

#### 2.2 Non-Government Documents

Document No.	Document Description	Document Date
AS 9100	Quality Management System	2004 (Revision B)
EIA Standard 469A	National Consensus Standard for Configuration	28 October 2004
	Management	

#### 3.0 REQUIREMENTS

#### 3.1 Program Management (Raytheon)

The Contractor shall provide overall management and technical direction, including but not limited to, program planning, management control and reporting, risk and opportunity management, quality management, schedule management and control, Earned Value Management (EVM), configuration management and control, data management, coordination, reporting and administration to ensure the performance of the tasks delineated in this SOW. The program management and controls system employed must be sufficient to provide the Government with in-depth, accurate, and timely visibility into the Contractor's technical, schedule and cost performance and status by milestones in accordance with this SOW.

The Contractor shall identify to the Government a single individual as the Program Manager for the work required. The identified Program Manager shall be responsible for ensuring compliance with the requirements of this SOW. This individual's name shall be supplied to the Government as the point of contact for all technical and programmatic details. The Program Manager shall ensure that the personnel and facilities necessary for the performance of the contract are assigned and made available at the times and places necessary to meet the established schedule. Program Manager support is required for all contract CLINs. This includes, but is not limited to the following:

- Maintain the Work Breakdown Structure (WBS)
- Maintain the Integrated Master Plan (IMP) and Integrated Master Schedule (IMS)
- Function as the day-to-day point of contact to Government
- Organize and define internal responsibilities
- Assure that program milestones are met
- Assure that technical milestones are met
- Assure compliance with product quality requirements,
- Assure program control and schedule (Earned Value Management System (EVMS))
- Conduct program status meetings with the Government
- Ensure metrics are collected and reported
- Report progress on a monthly basis as described
- Ensure risks are identified and appropriate action taken (Risk Management).

• Work with the Government to submit necessary export licenses to market and sell to NATO countries (per CDRL A031).

#### 3.1.1 Integrated Master Plan (IMP) (Raytheon)

The Contractor shall develop an IMP to describe how the program shall be accomplished. The IMP shall be a table organized around program Significant Events (SE) that are the transition points between major program activities. Each Significant Event is subordinated by Significant Accomplishments (SA), each of which is supported by a specific Accomplishment Criteria (AC). The IMP is directly traceable to the WBS and SOW and provides the primary input into the development of the IMS which resource loads the tasks by date and duration. The IMP shall be maintained during the entire program. The IMP, summarized below, provides exit criteria for each task in the SOW.

	MAINGATE EVENT DICTIONARY
Event Code/Title	Event Purpose, Expected Results and Exit Criteria
Event A	Objective:
	Marks the beginning of program execution
Contract Award	• Establishes a time reference for the beginning of the project.  Expected Results:
	Contract modification authorizing work to proceed
	Objective:
	Ensure joint understanding of the contract, objectives and requirements.
	Approach:
	Review of MAINGATE Program Master Schedule
Event B	Review of contract requirements and objectives
,	Review of contract data requirements
Post Award	Review of Integrated Master Plan
Baseline Review	Review of other available program plans
5 <sup>th</sup> Month	Expected Results:
	Mutual concurrence with approach to program execution
	Exit Criteria:
•	Satisfactory mutual understanding of contract objectives and program plan achieved     Contractor program plans consistent with contract objectives
	<ul> <li>Contractor program plans consistent with contract objectives</li> <li>GFE/GFI requirements mutually acceptable</li> </ul>
	Objective:
	• Ensure joint understanding of the architecture design and test strategy.  Approach:
*	Review of MAINGATE Program Master Schedule
Event C	Review of Integrated Master Plan
	Review Architecture design
Architectural Review	Review Test strategy
6 <sup>th</sup> Month	Expected Results:
O Monus	Mutual concurrence with system architecture
•	Exit Criteria:
•	Mutual understanding of system architecture
	Mutual understanding of test/demo strategy
	Issues identified and actions assigned

英語 마음 교회 (1997년 1일 - 1일을 1일 전 발 기 (1997년 1일 - 1997년	MAINGATE EVENT DICTIONARY
Event Code/Title	Event Purpose, Expected Results and Exit Criteria
Event D  Interim Demonstration #1 10 <sup>th</sup> Month	Objective:  Establish that the incremental system design is maturing according to the plan.  Approach:  Review the Phase Requirements and Architecture for Interim Demo #1  Review the Test and Evaluation Plan for Interim Demo #1  Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)  Expected Results:  Concurrence that incremental system design is maturing  Agreement with Allocated Baseline structure  Approval to proceed with the Interim Demo #1  Exit Criteria:  Phase Requirements and Architecture approved  Test and Evaluation Plan approved  Interim Demo #1 conducted  Test report released  Action items captured and assigned
Event E Interim Demonstration #2 13 <sup>th</sup> Month	<ul> <li>Action items captured and assigned</li> <li>Objective: <ul> <li>Establish that the incremental system design is maturing according to the plan.</li> </ul> </li> <li>Approach: <ul> <li>Review the Phase Requirements and Architecture for Interim Demo #2</li> </ul> </li> <li>Review the Test and Evaluation Plan for Interim Demo #2</li> <li>Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)</li> </ul> <li>Expected Results: <ul> <li>Concurrence that incremental system design is maturing</li> <li>Agreement with Allocated Baseline structure</li> <li>Approval to proceed with the Interim Demo #2</li> </ul> </li> <li>Exit Criteria: <ul> <li>Phase Requirements and Architecture approved</li> <li>Test and Evaluation Plan approved</li> </ul> </li> <li>Interim Demo #2 conducted</li> <li>Test report released</li> <li>Action items captured and assigned</li>
Event F  Final Demonstration 15 <sup>th</sup> Month	Objective:  Establish that the incremental system design is ready for LUT production Approach:  Review the Phase Requirements and Architecture for Final Demo  Review the Test and Evaluation Plan for Final Demo  Identify the proposed Allocated Baseline (Hardware and software CIs and related requirements documents)  Expected Results:  Concurrence that incremental system design is ready for LUT production  Agreement with Allocated Baseline structure  Approval to proceed with the Final Demo
	Exit Criteria:

	MAINGATE EVENT DICTIONARY
Event Code/Title	Event Purpose, Expected Results and Exit Criteria
	<ul> <li>Phase Requirements and Architecture approved</li> <li>Test and Evaluation Plan approved</li> <li>Final Demo conducted</li> <li>Test report released</li> </ul>

#### 3.1.2 Integrated Master Schedule (IMS) (Raytheon)

The Contractor shall implement and maintain the agreed-upon IMS (CDRL A003) that provides sufficient detail and insight to allow the Government to track the overall program (e.g. all CLINs) schedule. All tasks/activities in the IMS are logically linked, showing predecessor/successor relationships and critical path. The activities and tasks defined are sufficient to account for the Contractor's program under contract, and as a minimum, integrate all required data items, testing, hardware deliverables and major program events/reviews, contract milestones, technical milestones, key decision points and program events requiring Government participation. The IMS shall be maintained during the entire program with updates provided monthly along with CDRL A008.

#### 3.1.3 Work Breakdown Structure (WBS) (Raytheon)

The Contractor shall provide a multi-level WBS. The Contractor WBS (CWBS) (CDRL A002) shall represent the total contract SOW (e.g. all CLINs). The Contractor shall use the WBS for planning, managing, and reporting programs status and projections for cost, schedule, and technical achievements. No changes can be made at or above the reporting level of the WBS (defined in CDRL A002) without the Government's concurrence. The CWBS shall be base lined at the Program Kickoff Meeting or by a mutually agreed to date. Each CLIN shall utilize distinct CWBS elements.

#### 3.1.4 Reviews/Meetings/Conferences (Raytheon)

The Contractor shall support all planned Government attended reviews/meetings/conferences (hereinafter referred to as reviews) listed in **Table 3.1.4-1**. Specific dates shall be specified in the IMS to the extent they are known at the time of the proposal. Thereafter, the IMS shall be updated as required to reflect changes to the review/meeting schedule. Each schedule meeting shall be preceded by publication of an agenda (CDRL A005) and 'read ahead' presentation materials (CDRL A006). The contractor is responsible for capturing action items and decisions in summary minutes for each meeting (CDRL A007).

Table 3.1.4-1. Summary of Program Reviews/Meetings (CLIN 0001)

Name of Reviews/Meetings	Frequency	SOW Paragraph
Program Kickoff	Once	3.1.4
Program Reviews	Monthly Teleconference	3.1.4
Architecture Review and Interim Demo 1 Readiness Review	Once	3.9.4, 3.9.5.1

Name of Reviews/Meetings	Frequency	SOW Paragraph
Architecture Review and Interim Demo 2 Readiness Review	Once	3.9.4, 3.9.5.1
Architecture Review and Final Demo Readiness Review	Once	3.9.4, 3.9.5.1

The Contractor shall hold a Program Kickoff meeting (CDRL A001). The purpose of the Program Kickoff meeting is to review the Integrated Master Plan (IMP), the Integrated Master Schedule (IMS) (CDRL A003), the Contractor Work Breakdown Structure (CWBS) (CDRL A002) and the SOW for MAINGATE as well as the system design and program approach.

The Contractor shall be responsible for submitting a monthly status report (CDRL A008), and associated cost schedule and status reporting (CDRL A009) information including an updated Integrated Master Schedule (IMS) (CDRL A003). The Contractor shall also be responsible for attending program review teleconferences as mutually agreed upon with the Government. Program Review teleconferences shall occur monthly, concurrent with the delivery of the monthly status report. The Contractor shall be prepared during all Program Review teleconferences to address all contract performance issues. The Program Reviews provide a working management level forum to identify, discuss, and resolve issues that could affect the overall system from achieving the contract requirements.

Stoplight charts may be used to summarize the current status. Minutes and action items shall be taken by the Contractor and reviewed prior to the conclusion of each meeting and issued per CDRL A007. Items to be discussed at the Monthly Program Reviews (MPR) include, but not limited to the following:

- Earned value and Schedule status/progress
- · Risk management and mitigation status
- Review of Demonstration Issues
- GFE/GFI need dates
- Data Item Delivery Review
- Metrics
- Review of last month's Action Items and open action item status
- Review of Technical Issues.

#### 3.1.5 Risk Management (All)

The Contractor shall provide a Risk Management Plan (RMP) (CDRL A004) that details the risk management process for the program. It shall identify the program risk manager and the membership of the Risk Management Working Group (RMWG). The RMWG shall meet monthly or as needed and provide risk progress status inputs into the monthly progress status report (CDRL A008). Designated risk items shall have corresponding discussion/cross-references in the monthly status report and applicable financial reports.

#### 3.2 Business Management (Raytheon)

The Business Management Office is responsible for implementing, tracking, and reporting business and financial management metrics/status across all CLINs for the MAINGATE Program. In this role, the Business Manager provides financial planning and development information and optimizes program schedule, cost and cash performance. The Business Manager implements and maintains the required MAINGATE Program Earned Value Management System (EVMS) information and records for the purpose of providing the Monthly Progress Status Report (CDRL A008) as well as all funding status

reports (CDRLs A009, A021, A022, and A023) to the Government. Business Management responsibilities include, but are not limited to, the following:

- Work with the Program Manager and Program Engineer to ensure Program budgets are defined, updated, monitored and achieved
- Support the Program Scheduler and IPT leads in the preparation of Integrated Master Schedule (IMS) data
- Prepare and report required Program EVMS data using Micro-Frame Program Manager (MPM) on a monthly basis to include an updated Estimate at Complete (EAC) in the monthly status report and detailed EVM data, rationale, and cause/effect/mitigation in the monthly Cost Performance Reports (CPRs)
- Track and maintain program billings
- Coordinate with the Program Manager and Program Engineer to manage Program risks relating to cost
- Coordinate with the Program Manager and Program Engineer to identify Program opportunities and develop optimal courses of action
- Support Program status meetings (Program Management Reviews with internal Management)
- Facilitate dissemination of business information (budget and cost), including weekly labor and expenditures reports
- Establish and maintain Program cost accounts (charge numbers) in compliance with the Contract Work Breakdown Structure, IMS, and Company practice.

#### 3.3 Contract Management (Raytheon)

The Contractor's contract management organization shall provide the primary point of contact to the Government regarding all contractual items, including any issues that arise during the execution of the program. The Contractor shall maintain records of communications and these records will be made available to the Government if requested.

#### 3.4 Supply Chain Management (Raytheon)

The Contractor's Supply Chain Management organization shall provide the primary point of contact to the subcontractors and teammates regarding all subcontract items including any issues that arise during the execution of the program. Supply Chain Management shall also coordinate with Business Management to ensure consistency of cost and technical performance reporting. The Contractor shall maintain records of communications and these records will be made available to the Government if requested.

## 3.5 Production Coordinator (Raytheon,

The Contractor shall assign a Production Coordinator to oversee and coordinate the activities of Supply Chain, Manufacturing, Engineering, subcontractors and parts suppliers to ensure that all test and deliverable assets are available when needed. The WIPN radio shall be produced by Raytheon and the MAINGATE Node (to include integration of the Raytheon supplied WIPN radio) shall be produced by Production Coordinator tasks include:

- Order engineering development material and items identified as critical long lead
- Program status of hardware (includes placement/receipt of parts, follow up with suppliers and program office/production personnel on any critical part shortages that come up in weekly status meetings)

- Shipment and receipt of long lead parts coming in from suppliers to be routed as CFM (customer furnished material) to production
- Shipment and receipt of parts coming in from suppliers and production to be routed for engineering analysis and test.

A priced hardware long lead list for timely execution of either of the LUT options shall be provided to the Government no later than 8 months after contact award. The list shall detail all assumptions associated with it.

#### 3.6 Program Engineer (Raytheon,

A Program Engineer (PE) shall be assigned to support the MAINGATE program. The PE reports to the Chief Engineer and assists the Chief Engineer in his responsibilities for engineering cost, schedule and technical performance, including management of the engineering content on MAINGATE, engineering direction across Integrated Product Teams (IPTs) and sites, and ensuring the MAINGATE project is compliant with Raytheon engineering processes. This includes creation and execution of project plans, staffing (including skills and training), and reporting program status.

The PE assigned to the program will plan and manage the various engineering activities to ensure proper engineering processes are followed across the team. The PE also supports the Chief Engineer in providing technical subcontract management to ensure the team is communicating and working to the same revision of information.

## 3.7 Configuration Management /Data Management (Raytheon,

The Contractor shall implement, document, and maintain a Configuration Management (CM) system that is based on an industry-recognized quality management system, such as EIA Standard 649, National Consensus Standard for Configuration Management, to ensure technical and administrative integrity of all hardware and software products, documentation, and data pertaining to this contract. The CM system shall implement processes for configuration identification, control, status accounting and audits. The Government shall be provided copies of the documentation upon request.

All delivered CDRLS are to be under Prime contractor Configuration Management control. The documents shall be delivered by electronic means (MAINGATE Portal or CD-ROM via mail or package service) to the Government Contract Manager, as applicable. If a collaboration web site is established, an email notification will be provided as new material is posted, providing a meaningful title, revision number, and location on the site. If CDs are used for delivery, file names will include a revision number to preclude overwriting previous deliveries and to ensure all parties are working from the same version. In addition, any submittal made in response to, or incorporating Government comments from the preceding submittal shall include an attached or appended memorandum summarizing the comments and their disposition. Table 3.7-I provides a summary of the CDRL documents that the Contractor is required to deliver to Government.

Table 3.7-I. Summary of Documentation

Final CDRL	Description	CLIN
A001	Program Kickoff Meeting/Review	0001
A002	Contract Work Breakdown Structure (CWBS)	ALL
A003	Integrated Master Schedule (IMS)	ALL
A004	Risk Management Plan	0001
A005	Conference Agenda	0001, ASREQ
A006	Presentation Material	0001, ASREQ
A007	Conference Minutes	0001, ASREQ
A008	Research & Development (R&D) Project Summary - Status Report (Mthly)	ALL
A009	Contract Performance Report (CPR) - Status Report (Mthly)	ALL
A010	System Requirements Document	0001
A011	System/Hardware Design Document	0001
A012	System Specification	0001
A013	RESERVED	N/A
A014	Software Requirements Specification	0001
A015	Software Development and Test Plan	0001
A016	Software Version Description	ALL
A017	RESERVED	N/A
A018	Software / Hardware Test Report	ALL
A019	Test & Evaluation Plan	0001
A020	Production Unit Cost (PUC) estimate	ALL
A021	Contract Funds Status Report (CFSR)	ALL
A022	Cost Data Summary Report (DD Form 1921)	0002 and 0004
A023	Funding Report	ALL
A024	Project Information and Description	ALL
A025	Technical Status Report (Qtrly)	ALL
A026	Data Accession List	ALL
A027	Operations Manual / Training Material	ALL

Final CDRL	Description	CLIN
A028	Interface Control Document	ALL
A029	Software Source Code	ALL
A030	Final Report	ALL
	International Traffic in Arms Regulations (ITAR) Commodity	
A031	Jurisdiction (CJ)	ALL

#### 3.8 Quality Engineering (Raytheon)

The Contractor shall utilize its existing quality engineering system, which shall be AS9100 compliant. The Contractor shall implement, document, and maintain a quality assurance system, including reviews, inspection, test, reporting, procedures, processes evaluations, and product evaluations. The Contractor's quality control system shall ensure conformance to all SOW requirements in accordance with AS 9100. For newly developed hardware, the Contractor shall perform to their internal workmanship standards, or Government approved equivalent.

The Contractor shall perform inspection of all developed and purchased materials, and shall perform Identification, Damage, and Workmanship inspections on Government Furnished Equipment (GFE). The Contractor's Quality Assurance representative(s) shall conduct inspections and audits during all phases of development and production. Dates, performance, scope, and results of Quality Assurance inspections shall be documented and made available to the Government.

## 3.9 System Engineering (Raytheon,

The Contractor shall provide system engineering to develop a System of Systems Network Architecture for MAINGATE and to conduct a set of demonstrations that prove its capabilities. This shall consist of a requirements management process providing clear traceability of requirements to each design configuration. Key products will be a System Requirements Document (CDRL A010), System/Hardware Design Document (CDRL A011), System Specification (CDRL A012), Interface Control Document (CDRL A028), Software Requirements Specification (CDRL A014), and Software Development and Test Plan (CDRL A015).

## 3.9.1 Chief Engineer and Technical Director Raytheon)

A Chief Engineer shall be assigned to support the MAINGATE program. The Chief Engineer is responsible for the MAINGATE technical functionality, the technical content of each demonstration, and the successful execution of the demonstrations. The Chief Engineer is responsible for the overall technical fidelity of MAINGATE, ensure MAINGATE equipment and subsystems are designed to interoperate efficiently and effectively, providing the required system accuracy, reliability, maintainability, and safety.

The Technical Director (TD), as required, shall manage the technical coordination, oversee the System Integration Labs (SIL) at Raytheon (Ft. Wayne and Fullerton), oversee the test sites in Fayetteville, TN, Ft. Benning, GA and Ft. Gordon, GA, and assist in the independent evaluation of test and demonstration results.

## 3.9.2 Test Director

The Contractor shall provide a Test Director for Interim Demonstration #1, Interim Demonstration #2, and the Final Demonstration. The Test Director shall act as the single point of contact for all demonstration related activities, including demonstration planning, demonstration execution, and demonstration reports. Additionally, the Test Director shall coordinate all demonstration activities, obtain all communications frequency authorizations, provide for all data collection, and resolve all issues that arise during the demonstrations. A comprehensive Test and Evaluation Plan for the program shall be created (CDRL A019).

## 3.9.3 System Requirements and Architecture Definition (Raytheon,

The Contractor shall define the requirements and architecture in a single System Requirements Document (CDRL A010). This effort shall result in System Block Diagrams depicting the architectural elements and their interfaces. The MAINGATE system architecture shall describe the network characteristics of the gateway and the MANET radio required to support tactical, real-time, high fidelity video, data, and voice services to users on legacy subnets. The architecture shall describe routing protocol options and Quality of Service requirements necessary to support the heterogeneous networks of legacy radios. The architecture shall define the interfaces to all required radios including EPLRS, MicroLight EPLRS, SLICE/SRW, SecNet11, PRC-117F, SINCGARS, 802.11g, WiMAX (2.5 GHz), UMTS, TETRA, PRC-119, PRC-150, FRS, Cellular, VoIP devices, PSTN, and 800 MHz Public Safety Radio. Requirements for both the Gateway component and the Wireless Internet Protocol Network (WIPN) radio shall be defined. This effort shall be completed during CLIN 0001.

#### 3.9.4 Requirements and Architecture Reviews (All)

The Contractor shall conduct a review of the requirements and architecture at the start of the program to ensure all stakeholders clearly understand the design objectives as documented in the System Requirements Document (CDRL A010). Demonstration specific Requirements and Architecture descriptions shall be detailed and reviewed as part of the test and evaluation planning for each demonstration event.

## 3.9.5 Demonstrations

Two interim demonstrations and a final demonstration shall be conducted during CLIN 0001. The purpose of these demonstrations is to verify and assess the degree of compliance to the performance metrics in the MAINGATE BAA, including Appendix A.

## 3.9.5.1 Demonstration Readiness Review

The Contractor shall prepare a comprehensive MAINGATE Test and Evaluation Plan (CDRL A019), in Contractor format that facilitates and documents Interim Demonstration #1, Interim Demonstration #2, and the Final Demonstration. This modular document describes the detailed testing used for each demonstration to verify that the system has met the performance metrics. Interim Demonstration #1 test objectives shall be developed by the Contractor and published as a draft module to CDRL A019, Test and Evaluation Plan. This shall be provided to the Government 15 days prior to the Interim Demonstration #1 Readiness Review. The readiness review will involve all stakeholders and ensure that all aspects of the demonstration are ready for execution, including target hardware, software, test setups, and all required test equipment. Any changes to the test and evaluation plan shall be incorporated into the final interim Demonstration #1 Test and Evaluation Plan 15 days after the review. This process will

be used for next demonstrations as well. Spatial Diversity (SD) MIMO, DSA, and coexistence with communications shall be included in Interim Demo #1, Interim Demo #2 and the Final Demonstration. Link range testing shall include tests with and without SD MIMO to prove the results / benefits. Prior to Final Demonstration, coexistence with CREW systems will be demonstrated in a mutually agreed environment. DARPA shall provide the GFE, GFI, and support requested for CREW testing.

## 3.9.5.2 Demonstration Execution and Final Report

Preparation for each Demonstration will be led by the Test Director and will include:

- Finalize integration of system into test vehicles (e.g. HMMMVs)
- Verify system and network operations on a daily basis
- Characterize network operations to optimize objectives
- Troubleshoot and repair failures associated with the network
- Verification of proper revisions for all Hardware and Software components
- Manpower assigned to operate each node during the demonstration
- Satellite access and frequency authorizations secured for the demonstration
- Integration and logistics support during demonstration, including field facilities
- Required Flight safety certifications in place
- SATCOM and/or ISR feed, Legacy radios, commercial radios, and First Responder radios are all
  available
- Test ground/air vehicles, including drivers and pilots are all ready for test.

The tests defined in the test plan shall be executed under the direction of the Test Director and all results will be recorded per the instructions in the test plan. The Contractor shall prepare Test Reports, in Contractor format, for Interim Demonstration 1, Interim Demonstration 2, and the Final Demonstration to facilitate briefing of results and be incorporated in the final report (CDRL A030). These Test Reports (e.g. CDRL A018) shall document the test conducted, results and provide an assessment indicating the degree to which the system meets the Appendix A Program Metrics.

## 3.9.6 Training and Onsite Technical Support (Base award and Option(s))

The Contractor shall provide training, preparatory, and onsite technical support as a component of the Final Demonstration (CLIN 0001) and as part of the Limited User Testing (LUT) options (CLIN 0003 (CONUS)) and 0005 Outside Continental United States (OCONUS)).

Training will consist of:

- 1. Developing training material suitable for use by Military personnel to support operation of the MAINGATE system. Training material will consist of classroom type material as well as "cut sheet" summary material for use in the field.
- 2. Support to onsite use of the training material by the Military operators, including hands on training in a classroom and field environment.
- 3. Leave behind training material (paper and CD) to enable further training as required.

Preparatory technical support will consist of:

- 1. Establishing a System Integration Lab (SIL) to facilitate development of training material, testing of system level components inserted into the system after the MAINGATE final demonstration, and testing of the system prior to employment.
- 2. Final system testing of a select subset of MAINGATE systems prior to employment Onsite technical support will consist of:
  - 1. Assistance in developing a mounting configuration for platforms of employment.
  - 2. Support for the development of Tactics, Techniques, and Procedures (TTPs) for employment of MAINGATE.
  - 3. Support during the conduct of a Limited User Test (LUT) (including up to two (2) smaller pre-LUT tests to enable familiarization with the MAINGATE hardware and its employment and development of TTPs) to answer questions related to employment, operation, mounting, or troubleshooting MAINGATE systems.

### 3.10 Software Design (Raytheon,

The Contractor shall provide TRL 6 software for both the MAINGATE Node and the WIPN radio. Software planning and management will be performed throughout the development process. Key products will be a Software Requirements Specification (CDRL A014) and Software Development and Test Plan (CDRL A015).

# 3.10.1 Software Design, Code, Unit Test and SW Integration (Raytheon,

The Contractor shall analyze software requirements, design, integrate and test software forMAINGATE. This encompasses modifying existing software in the MAINGATE Node and the WIPN to satisfy the MAINGATE BAA Appendix A Program Metrics. Software shall be developed and tested to support Interim Demonstration #1. Updates will be provided and tested for Interim Demonstration #2 and the Final Demonstration to optimize system functionality. Key products will be Software Development and Test Plan (CDRL A015) and Software/Hardware Test Reports (CDRL A018). The majority of the effort is anticipated to be completed in CLIN 0001 with potential for additional software efforts in remaining CLINS as needed.

#### 3.10.2 Software Releases (Raytheon,

There shall be iterative releases of the MAINGATE software during the development and integration process. An informal software qualification test is performed to ensure the software functions properly prior to each release to software configuration management. The Contractor shall prepare Software Release Notes with each software release. The Contractor shall prepare a Software Version Description for each formal release of the software for demonstration. All software shall be properly controlled via configuration management. Key products will be Software Version Description (CDRL A016). The effort shall be completed during CLIN 0001. The initial software source code will be delivered after the completion of the final demonstration via CDRL A029.

#### 3.10.3 Graphical User Interface

The Graphical User Interface (GUI) shall be provided in a representative draft before it is coded to obtain government feedback. The representative draft briefing material will be maintained through Operator Console development and include information on concepts, types of MG users,

tools, screens, general layout of the GUI and the how baseline user interfaces are incorporated. The contractor will conduct meetings with Army operational user(s) identified by the Government in order to receive input and feedback on the initial design and updates to the Operator Console.

#### 3.11 Hardware Design and integration (Raytheon,

The Contractor shall provide TRL 6 MAINGATE Node and the WIPN radio hardware. Hardware engineering shall be performed for CLIN 0001. Key products will be System/Hardware Design Document (CDRL A011) for the system and for each hardware controlled item (HWCI that has changed for the MAINGATE program.

#### 3.11.1 Hardware Design, Build, Unit Test and HW Integration (Raytheon,

The Contractor shall make the required modifications to existing hardware designs (i.e., WIPN radio modules), select compliant commercial off-the-shelf products (e.g. Gateway components), and design the required packaging for all the hardware comprising a MAINGATE node. These hardware changes are required to satisfy, to the best degree possible, the MAINGATE BAA Appendix A Program Metrics. All MAINGATE hardware will be unit tested and integrated together to create a MAINGATE Node which will undergo a hardware level integration test to ensure it is functioning properly. All hardware shall be developed to support Interim Demonstration #1. Minor updates may be implemented for Interim Demonstration #2 and the Final Demonstration if required. The effort shall be completed in CLIN 0001. The Production Unit Cost (PUC) estimate (CDRL A020) shall be briefed at contract kickoff and progressively matured throughout the MAINGATE Program period to ensure a high confidence estimate is achieved with final delivery of CDRL A020 at completion of the final demonstration. It will include a "design for production" discussion on the path forward to achieve these final design cost projections.

# 3.11.2 Hardware Environmental Evaluations (Raytheon,

The Contractor shall conduct environmental evaluations, including EMI/EMC on MAINGATE node hardware during CLIN 0001 development. The EMI/EMC evaluations include: Radiated Emissions, Radiated Susceptibility, Conducted Emissions, and Conducted Susceptibility per Mil-Std-461. The purpose is to characterize the design as early as possible to allow for modifications to ensure compliance with these program metrics.

# 3.12 Advanced Concept Technology (ACT) Production (Raytheon,

The Contractor shall produce the required amount of hardware for the three demonstrations of the ACT portion of the program. These 13 MAINGATE Nodes, two spare MAINGATE Nodes, and five additional MAINGATE Nodes (lab units) are used to facilitate the various test scenarios of the program for a total of 20 MAINGATE Nodes. This is performed as part of CLIN 0001.

# 3.13 Preproduction Units (Raytheon, (Option)

The Contractor shall produce the required amount of hardware for the LUT(s) portion of the program if Options 1 and/or 3 are exercised. The current defined quantities and list of various CLINs for these options are identified in Section 1.0 of this SOW. Effort shall include all personnel and tooling required to produce the product, program management, and engineering support. The performance specification for the LUT units will be as demonstrated during the ACT Phase.

### 3.14 Government Furnished Information/Property

The contractor shall provide timely notification of need dates for GFI/GFP, generally not less than 30 calendar days before the information/property is required.

# Attachment 2

# **CDRLs**

Revised 13 NOV 2009

(1 Data Item)

Form Approved OMB No. 0704-0188

A. CONTRACT LINE IT		B. EXHIBIT	В	C. CATEGORY:	TDP	TM OT	HER MIS	SC			1
D. SYSTEM/ITEM MAINGA		E. CONTRACT HR0011-09-C	PR NO.		F. CONTR						
1. DATA ITEM NO.	2. TITLE OF				3. SUBTIT						17. PRIC
A001	RESEARCH SUMMARY		PMENT (R&D) P	ROJECT	PROGRA	M KICKOFF I	MEETING/	REVIE	W		GROUP
4. AUTHORITY (Data DI-MISC-81612B/		ocument No.)	5. CONTRACT R CSOW	EFERENCE		6. REQUIRING DARPA/STO					18. ESTI
7. DD 250 REQ N/A	9. DIST STATEMENT	10. FREQU	ONE 1	2. DATE OF 1ST S	JBMISSION	14.	DISTRIBU				
8. APP CODE		11. AS OF		3. DATE OF SUBS	OUENT	a. ADDRE	COEE		. COPI		ļ! L
N/A	С	11. AS OF		SUBMISSION N/A	EQUENT	a. ADDRE	SSEE	Draft	Reg	Repro	<b>(</b> ;
16. REMARKS	1					SSC-PAC/C	OTR	0	1	0	li
* 30 DAC						DARPA/STO	)	0	1	0	1
						DARPA/CM	0	0	1	0	]!
** Contractor will co Performance Plan a	induct a Kicko and Budget E	π meeting/Rev xecution within	iew of Program N 30 DAC.	Villestone Schedu	е						1
Contractor Format	3										!
Block 9: C: Distribu	tion to US Go	vernment age	ncies and their co	ntractors							<u>j</u> i
		_									1.
Block 14: One (1) c Collaboration E-Ro				on MAINGATE C	ustomer						
neil.hoff@navy.mil											1
larry.stotts@darpa.	mil and										
robin.swatloski@da								1			
TODITI.SWAROSKI@GE	агралты										
											];
									ļ		_li
									<b>_</b>	ļ	_]1
								ļ		-	
									+		-1:
								-	-		1
									-	+	
									-		-1
1							· · · · · · · · · · · · · · · · · · ·		1		Ti .
							····				ı
											]:
											_¦;
											_i
											_1
											-1:
								-		-	- ;
						15. TOTAL	<del>)</del>	0	3	0	1
G. PREPARED BY		H. DATE	•••	I. APPRO				J. D.	1		1
		12 June 20	09	Robin Sw	atloski			1			1

(1 Data Item)

Form Approved OMB No. 0704-0188

1		_	SMT	TM OTHER _MG	TDP	C. CATEGOR	B B	B. EXHIBIT		CONTRACT LINE IT ALL
					F. CONTR			E. CONTRACT HR0011-09-0		D. SYSTEM/ITEM MAINGAT
17. PRICE					3. SUBTITI				2. TITLE OF DA	DATA ITEM NO.
I GROOP						UCTURE (CWBS	EAKDOWN STR	WORK BREA	CONTRACT V	A002
18. ESTI TOTAL F				6. REQUIRING OFFICE DARPA/STO		REFERENCE	5. CONTRACT	cument No.)		. AUTHORITY (Data A DI-MGMT-81334C
il				14. DISTRIBL		12. DATE OF 1ST 30DA	QUENCY ONE/R	10. FREQ	9. DIST STATEMENT	. DD 250 REQ
<u>                                     </u>		. COPI Fin	L L	a. ADDRESSEE		13. DATE OF SUE				. APP CODE
ľ	Repro	Reg	Draft	a. ADDRESSEE		SUBMISSION * R	E BLOCK 16	11. AS OF	С	A
li .	0	1	1	SCC-PAC/COTR					L -	6. REMARKS
1	0	2	1	DARPA/STO	oroval	ofter receipt Disa	within 15 days s	n the COTP is	al by letter from	.pproval/disapprova
1	0	1	0	DARPA/CMO	Jiovai	iller receipt. Disa				equires correction/r
]	0	1	0	DCMA/ACO						
Įi –										contractor Format
Į.										R/ASR - revision a
	-									ceep the CWBS up appropriate changes
4:					Jilan	ny. The contract				ncorporate required
		<u> </u>	ļ		v that	o congratoly iden	CMPS number t	our unique C	Ludi utiliza ita a	Each contract CLIN
		<del> </del>								rogram effort. No
					,	0				vithout the Governr
					tors.	es and their contra	ernment agencie	d to US Gove	tion authorized	Block 9: C: Distribut
							ais shall be place	and material	copy of reports a	Block 14: One (1) c
-li	<u> </u>						sent to:	notification se	om and email n	Collaboration E-Ro
-  L   I										neil.hoff@navv.mil
<u>-</u> !:			-						<u>.mil</u>	arry.stotts@darpa.
-¦;	<u> </u>		-						pa.mil and	oatrick.bailey@dar
]									arpa,mi	obin.swatloski@da
			_		orting page	ARPA Extranet re	a access to the D	uploaded via		Electronic submiss
_li	-								110	www.tiiiiia.uaipa.fii
_ 1										
_ :										
4;										
-li										
_1	-	-								
- !		-								
- ;	-		-							
-li	-	-								
-1:	0	5	2	15. TOTAL→						
1		ATE	J. D.		VED BY atloski	I. APPR Robin S		H. DATE 12 June 20		G. PREPARED BY

(1 Data Item)

Form Approved OMB No. 0704-0188

A. CONTRACT LINE IT		B. EXHIBIT	В	C. CATE	GORY:	TDP	TM OTHER	MGMT			1
D. SYSTEM/ITEM MAINGAT	E.	CONTRACT	PR NO.			F. CONTR					
1. DATA ITEM NO.	2. TITLE OF DA					3. SUBTIT					17. PRICE
A003	INTEGRATED	MASTER S	SCHEDULE (IMS	S)							GROUP
4. AUTHORITY (Data A DI-MGMT-81650/T		ment No.)	5. CONTRACT I	REFERENCE	E		6. REQUIRING OFF DARPA/STO	ICE			18. ESTIMAT TOTAL PRIC
7. DD 250 REQ	9. DIST	10. FREQU		12. DATE OF	F 1ST SU	BMISSION	14. DIS	TRIBUTION			[:]
LT	STATEMENT	N	ATHLY		**				b. COPIES		i
B. APP CODE A	С	11. AS OF		13. DATE OI SUBMISSIO		QUENT	a. ADDRESSE	Draft	Fi Reg	nai Repro	1
16. REMARKS							SSC-PAC/COTR	1	1	0	li .
End of first full acc	ounting period t	following cor	stract award				DARPA/STO	1	1	0	1
End of hist full acc	ounting period i	iollowing col	ilraci award.								!!
Contractor Format											<u> </u> ;
** First submission i	is due within 60	working day	s. First submiss	sion shall in	nclude re	porting to				-	li i
the Intermediate Le									<b></b>	-	ĮI.
*** 17 working days	after the close	of the contr	actor's monthly a	occounting r	nerind N	LT 25			1		1!
working days after E	Block 11. All sc	hedule level	s (earlier than 17	7 days is hi	ghly enc	ouraged).			-	-	<b>!</b> ;
Block 9: C: Distribut	tion authorized	to US Gover	nment agencies	and their c	contracto	rs.					
Block 14: One (1) c Collaboration E-Roo				on MAING	SATE Cus	stomer					
neil.hoff@navy.mil									-	-	
iarry.stotts@darpa.	mil										]   -     -
										_	_  :
									<u> </u>		_li
											_ 1
											4!
									-		-∐:
									-		- <b>i</b> i
											-1
											- -
											-{!.
									-		-1:
									-		- -
									+		- 1
											- !
									+-	-	
									+-		<b>⊣</b> i
									-		<b>-</b>  1
									-		<u> </u>
							15. TOTAL	→ 2	2	0	1
G. PREPARED BY		H. DATE 12 June 20	09		APPROVE			J. D	ATE		
DD Form 1423-	1 JUN 90 /E/			ous edition			Page	_3_ of _31_	Page		-{:

(1 Data Item)

Form Approved OMB No. 0704-0188

ı

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistract/PRN Noistracting Officer for the Contract/PRN Noistracting Officer for the Contract/PRN Noistracting Officer for the Contract/PRN Noistracting Officer for the Contracting Officer for

		12 June 20	09	Robii	1 Swatloski						
S. PREPARED BY		H. DATE			PROVED BY	15. TOTAL→	J. D	2 ATE	0		
								1	1		
•,								-	-		
							_	-	-		
								-	-		
									-		
								-	-		
								-	-		
						,					
							+				
y.stotts@darpa	(1)()								-		
								-			
l.hoff@navy.mi	l										
laboration E-R	copy of report com and emai	s and materials I notification se	nt to:	SU UN MAINGA I	c Customer						
		s and materials	shall be place	ed on MAINGAT	E Customer		-				
ntractor Format											
/ASR											
DAC						-					
	ution authorize	a to US Gover	nment agencie	es and their cont	ractors.		-				
	-41 · · ·	44-110-0				DARPA/STO	1	1	0		
REMARKS						SSC-PAC/COTR	1	1	0		
APP CODE	С	11. AS OF	*	13. DATE OF S SUBMISSION		a. ADDRESSEE	Draft	Reg	Repro		
T CODE	STATEMEN		One/R		DAC	40000000		b. COPIES Final			
DD 250 REQ	9. DIST	10. FREQU	JENCY		ST SUBMISSION		BUTION	JTION			
AUTHORITY (Data MGMT-80004A	Acquisition D	ocument No.)	ment No.) 5. CONTRACT REFERENCE CSOW			6. REQUIRING OFFICE DARPA/STO					
A004	RISK MAN	AGEMENT PLA	AN						. 1		
ATA ITEM NO.	2. TITLE OF	DATA ITEM			3. SUBTIT	LE					
MAING	,1	HR0011-09-0			THE RAY	THEON COMPANY					
YSTEM/ITEM	-	E. CONTRACT	PR NO.		F. CONTR	TM OTHER _N	//OW/ I				

(1 Data Item)

rorm Approved OMB No. 0704-0188

or the Contract/PR No. listed in Bloc	k E.						.,			l	
A. CONTRACT LINE ITEM 0001, ASR		B. EXHIBIT	В	C. CATEGORY:	TDP	TM OTHER _A	DMN	_	1	 	
D. SYSTEM/ITEM MAINGATE	E	E. CONTRACTA HR0011-09-C	PR NO.		F. CONTR					1	
I. DATA ITEM NO. 2	. TITLE OF D	ATA ITEM			3. SUBTIT	LE				17. P	
A005	CONFERENC	CE AGENDA								GRO	
. AUTHORITY (Data Acc DI-ADMIN-81249A/T	quisition Doc	ument No.)	csow			6. REQUIRING OFFICE DARPA/STO					
	. DIST STATEMENT	10. FREQU	SREQ	12. DATE OF 1ST SU	JBMISSION	14. DISTRIE		b. COPI	FS		
. APP CODE	С	11. AS OF	DATE	13. DATE OF SUBSI	EQUENT	a. ADDRESSEE		Fin		<u> </u>	
J/A			*	SUBMISSION **			Draft	Reg	Repro	i	
6. REMARKS						DARPA/STO	0	1	0	!	
Approval/disapproval be equires correction/res				fter receipt. Disapp	roval	SSC-PAC/COTR DARPA/CMO	0	1	0	1	
Contractor Format										1	
ASREQ – means as review/presenation.	equired to do	ocument plans	s for each meet	ting, briefing,						l I	
Submit 5 days prior t	o each revie	w or present	ation. Approva	l/disapproval by lett	er for the					1	
** Disapproval require	•	resubmissior/	prior to review	or presentation.						i I	
										1	
Block 9: C: Distribution	n authorized	to US Gover	nment agencie	s and their contract	ors.					1	
Block 14: One (1) cop Collaboration E-Room	y of reports a n and email r	and materials notification se	shall be place nt to:	d on MAINGATE Co	ustomer						
neil.hoff@navy.mil an	d .							ļ			
arry.stotts@darpa.mi	<u>l</u>									l	
obin.swatloski@darp	a.mil									ļi.	
								-		¦i	
							<u> </u>		1		
										li	
										1	
							_	-	-	li	
								-	-	1!	
								-		ţi.	
										]!	
										- i	
										<u> </u> ;	
C PREPARES SW		T 5:==				15. TOTAL→	0	3	0	Į.	
G. PREPARED BY		H. DATE 12 June 20	09	I. APPROV			J. D	ATE			

(1 Data Item)

DD Form 1423-1, JUN 90 (EG)

Form Approved OMB No. 0704-0188

Page \_6\_ of \_31\_ Pages

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT 0001, AS		B. EXHIBIT	В	C. CATEGOR		TM OTHER _A	DMN	_	40	1 ·1
D. SYSTEM/ITEM MAINGAT		CONTRACT.			F. CONTR	ACTOR THEON COMPANY				1
. DATA ITEM NO.	2. TITLE OF DA				3. SUBTIT					17. PRICE GROUP
A006	PRESENTATION	OŅ MATER	IAL							I
. AUTHORITY (Data A DI-ADMIN-81373/T	cquisition Docu	ment No.)	5. CONTRACT CSOW	REFERENCE		6. REQUIRING OFFICE DARPA/STO				18. ESTIMAT
. DD 250 REQ	9. DIST	10. FREQU		12. DATE OF 1ST	SUBMISSION	14. DISTRI	BUTION			
LT	STATEMENT		SREQ					b. COP		i
B. APP CODE N/A	С	11. AS OF	DATE	13. DATE OF SUI SUBMISSION *	BSEQUENT	a. ADDRESSEE	Draft	Fir Reg	nal Repro	1
6. REMARKS						DARPA/STO	0	.1	0	1
THIS REPORT SHA	LL NOT CONT	AIN CLASS	IFIED INFORM	ATION		SSC-PAC/COTR	0	1	0	1
Contractor Format										1
ASREQ – means as	required to doo	cument topic	cs under discuss	sion at briefings	and reviews.		-	ļ		l
* Submit 5 days prio COTR within 2 days		v or present	ation. Approval	l/disapproval by	letter for the					
Maximum number o	f view graphs sl	hall not exce	eed 200 per day	in number for t	his contract.					
Submit reproducible	on media com	patible with	MS-Office for W	Vindows.						
Block 9: C: Distribut	ion authorized t	o US Gove	nment agencies	s and their contr	actors.					Įi.
Block 14: One (1) co Collaboration E-Roo	opy of reports a om and email no	nd materials	s shall be placed ent to:	d on MAINGATÉ	Customer					
neil.hoff@navy.mil	and									11
larry.stotts@darpa.t	<u>mil</u>									
						-				
							-			1.
								+		-li
								+	-	-11
								+	+	-11
		•								Ti .
										-li
									<del> </del>	<b>-</b>  ι
							<del></del>			-{!
•								-		-{;
								+		1
										]i
G. PREPARED BY		H. DATE		I APD	ROVED BY	15. TOTAL→	0 J. D	ATE	0	
J. I KEI AKED DI		12 June 20	09		Swatloski		1 5. 5			

Previous editions are obsolete

(1 Data Item)

Form Approved OMB No. 0704-0188

			MN	TM OTHER _AD		C. CATEGORY:	В	B. EXHIBIT		CONTRACT LINE IT
ľ		•		ACTOR	F. CONTRA		PR NO.	. CONTRACT/	E	SYSTEM/ITEM
1 77				THEON COMPANY	3. SUBTITE		-0083	HR0011-09-C	TE H	MAINGAT
Gi I							;		CONFERENC	A007
1 1				6. REQUIRING OFFICE DARPA/STO		TREFERENCE	5. CONTRAC CSOW	ument No.)		AUTHORITY (Data / I-ADMIN-81250A/
Jil.				14. DISTRIBU	UBMISSION	12. DATE OF 1ST S	JENCY SREQ	10. FREQU	9. DIST STATEMENT	DD 250 REQ _T
╢┸		. COPI	t t	a. ADDRESSEE	EQUENT	13. DATE OF SUBS		11. AS OF		APP CODE
╁	Repro	Reg	Draft	a. ADDRESSEE	EQUENT	SUBMISSION *	*	11. AS OF	С	N/A
_li	0	1	0	SSC-PAC/COTR						. REMARKS
<u> </u> !	0	1	0	DARPA/STO						
-1						w/presenation.	briefing, revie	ach meeting,	s required for ea	SREQ – means as
1										ontractor Format
1						ation	iew or presen	after each rev	nusiness davs a	Submit within 10 b
]i							•		-	
!					ors.	es and their contract	nment agenci	to US Gover	tion authorized t	ock 9: C: Distribut
- -	-				- Customer	ed on MAINGATE E	shall be place	and materials	copy of reports a	ock 14: One (1) collaboration Room
	<del> </del>						to:	ification sent	n and email noti	ollaboration Room
	-		<del> </del>							eil.hoff@navy.mil
		<u> </u>	1						<u>mil</u>	rry.stotts@darpa.
1										
_;	1							******		
- i		-								
-!	-	-	-							
၂;	+									
<b>_</b>  ı										
¦	-									
	_	-								
-		-								
$\dashv_i$	+	1								
			1							
		1								
_			-							
	-									
$\dashv$ i	-	-								
- 1		1								
	0	2	0	15. TOTAL→						
-1:		ATE	J. D.		VED BY	I. APPRO		H. DATE		. PREPARED BY

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jeptons, 1215 Jeptons, 1215 Jeptons, 1225 Jeptons, 1226 Jeptons

EXHIBIT C. CATEGORY:					
B TDP TM OTHER	_MISC				
ONTRACT/PR NO. F. CONTRACTOR 011-09-C-0083 Raytheon					
ITEM 3. SUBTITLE					
EVELOPMENT (R&D) PROJECT STATUS REPORT		-			
nt No.) 5. CONTRACT REFERENCE CSOW 6. REQUIRING OFFICE DARPA/CMO					
0. FREQUENCY MTHLY 12. DATE OF 1ST SUBMISSION 14. DISTR	RIBUTION	b. COF	PIES		
11. AS OF DATE 13. DATE OF SUBSEQUENT a. ADDRESSEE SUBMISSION **	Draft	Fi	nal Repro		
SSC-PAC/COTR	0	1	0		
CLASSIFIED INFORMATION DARPA/STO	0	2	0		
DCMA/ACO	0	1	0		
meeting, briefing, review/presenation.					
ally accounting period.					
11 time.					
JS Government agencies and their contractors.					
materials shall be placed on MAINGATE Customer cation sent to:					
		+			
			<b>_</b>		
		-			
PARRA E LA CALLANDA DE LA CALLANDA D					
ccess to the DARPA Extranet reporting page		+-			
			-		
		-			
		1			
DATE I L APPROVED BY		ATE	0		

(1 Data Item)

Form Approved OMB No. 0704-0188

A. CONTRACT LINE I		B. EXHIBI	В	C. CATEG	ORY:	TDP	TM OTHER _M	IGMT	_		1
D. SYSTEM/ITEM MAINGA		CONTRACT R0011-09-0				F. CONTR					1
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM				3. SUBTIT	LE				17. PRICE GROUP
A009	CONTRACT	PERFORMA	NCE REPORT	(CPR)		STATUS	REPORT				
4. AUTHORITY (Data DI-MGMT-81466A		ment No.)	5. CONTRACT CSOW	REFERENCE			6. REQUIRING OFFICE DARPA/STO				18. ESTIMATE TOTAL PRICE
7. DD 250 REQ	9. DIST STATEMENT	10. FREQ		12. DATE OF	1ST SU	BMISSION	14. DISTRIE				
LT	SIAIEWENI		MTHLY						b. COPIES		L
8. APP CODE A	D	11. AS OF		13. DATE OF SUBMISSION		QUENT	a. ADDRESSEE	Draft		nal	!
16. REMARKS		<u> </u>					SSC-PAC/COTR	0	Reg 1	Repro	<u>[</u>
							DARPA/STO	1	1	0	li.
Formats 1, 2 and 5	only are require	d monthly.					DARPA/CMO	0	1	0	li
Report data to at le	ast CWBS Level	3 with leve	1 4 or 5 as requir	red to give in:	siaht in	to critical	DCMAVACO	0	1	0	1
path items, and spe	ecific Subcontrac	tor perform	ance areas. Re	eporting shall	sufficie	ently	DCIVIAVACO	+	<del>  '</del>	-	ı
capture all of the sp			re on the critical	path (as per	the IM	S) or				<b></b>	1!
represent at least 4	% of the total co	SI.									<u>{</u> !
The Government re	eserves the right	to review a	nd modify (throu	igh negotiatio	ons) the	reporting				<del> </del>	<b>{</b> ;
levels for formats a									-	-	#:
Format 5 variance	analyses are rec	uired for the	a following:					_			1
Top ten current per										-	-  i
Top five cumulative	e cost and sched	ule variance	es					<u> </u>	-	<b></b>	41
Other significant va	ariances that are	causing or	are likely to caus	se significant	cost o	r schedule			<u> </u>	-	1
overruns, e.g., item (contractor determi		iter or high i	everage plannin	ig/engineerin	g tasks				-		-1!
(contractor determin	irica)								ļ		<u> </u>
* At the end of the	contractors mon	thly accoun	ting period.						<u> </u>		4
** NLT 60 DAC									<u> </u>		- -
									-	<del> </del>	
*** 17 working day working days after									-		
updates (earlier th										4	4.
significant milestor	ne/deliverable as	defined by	the contract has	s been achiev							-1:
remaining risk area	as have been mi	tigated, with	government co	incurrence.							-11
A SF Form 298, re	enort documenta	tion nage							1_		_1
(http://www.gsa.go			.do) is to be incl	luded with fin	al subr	nission.				-	1
											_
Block 9: D: Distrib	ution authorized	to the Depa	irtment of Defen	ise and U.S. I	DoD						1
contractors only.				`							1.
Block 14: One (1)	copy of reports a	and materia	ls shall be place	ed on MAING	ATE C	ustomer					_ ¦
Collaboration E-R	oom and email r	otification s	ent to:								4
neil.hoff@navy.mi	ı										_li
	-										
larry.stotts@darpa	a.mil										1
robin.swatloski@c	darpa.mi										
											<b>_i</b>
							15. TOTAL→	0	4	0	1
G. PREPARED BY		H. DATE 12 June 20	09		PPROV oin Swa			J. D	ATE		
		12 Julie 20		, not	on owa	uJani					-{:

(1 Data Item)

Form Approved OMB No. 0704-0188

	!		sc	TM OTHER _MI	Y:	C. CATEGOR	IT B	B. EXHIBIT		. CONTRACT LINE IT
					F. CONTRA		T/PR NO.	E. CONTRACT	E	. SYSTEM/ITEM MAINGA
17. PRIC					3. SUBTITU		0-0003	<del></del>	2. TITLE OF DA	DATA ITEM NO.
GROUP	)	N (SRD	ENTATIC	REQUIREMENT DOCUM		TS	NICAL REPORT			A010
		6. REQUIRING OFFICE DARPA/STO				TREFERENCE	5. CONTRACT	cument No.)		AUTHORITY (Data DI-MISC-80711A/T
			JTION	14. DISTRIB	SUBMISSION	12. DATE OF 1ST		10. FREQU	9. DIST	DD 250 REQ
L		. COPIE	t			*	3TIMES		STATEMENT	LT
1		Fina	Draft	a. ADDRESSEE	SEQUENT	13. DATE OF SUE	F DATE	11. AS OF	С	APP CODE N/A
	Repro	Reg		OCC PACICOTO						
! !	0	1	0	SSC-PAC/COTR	-					6. REMARKS
, !	0	1	0	DARPA/STO						lock 9 is clarified s
i					."	ion Center (DTIC)	chnical Informat	Defense Tech	n report to the I	ne approved interin
ı					ctors.	es and their contra	rnment agencie	d to US Gover	tion authorized	lock 9: C: Distribut
1										lock 10: 3TIMES n
l										ontroctor Format
i 1										Contractor Format
									ted.	Submit as general
			<u> </u>		Customer	ed on MAINGATE				Slock 14: One (1) c
							ent to :	notification se	om and email n	ollaboration E-Ro
			ļ							eil.hoff@navy.mil
		-	ļ						<u>.mu</u>	arry.stotts@darpa.
			-							
,			ļ							
<b>5</b> .			ļ <u>-</u>							
ı		-								
I		-	<u> </u>							
1			ļ							
		<u> </u>								
<b>!</b> :										
i.										
li										
1										
l ·										
]:										
1										
][		1								
1										
ľ		1	1			ū.				
li		+	<del>                                     </del>							
Ţi.										
†ı	<b> </b>	-								
1!	0	2	0	15. TOTAL→						
1!		\TE	J. DA		OVED BY	, i i APPR		H. DATE		G. PREPARED BY

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense. Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

		sc	TM OTHER _MI	TDP		В		1 j	0001
					· · · · · · · · · · · · · · · · · · ·				SYSTEM/ITEM MAINGAT
			LE	3. SUBTITI			TA ITEM	2. TITLE OF DAT	DATA ITEM NO.
	MENT	DOCUN	/HARDWARE-DESIGN	SYSTEM	rs	CAL REPOR	ND TECHN	SCIENTIFIC A	A011
			6. REQUIRING OFFICE DARPA/STO		REFERENCE	5. CONTRACT	ment No.)		AUTHORITY (Data A I-MISC-80711A//T
		ITION	14. DISTRIBU	UBMISSION	12. DATE OF 1ST			9. DIST	DD 250 REQ
		t						SIAIEMENI	_T
al Repro		Draft	a. ADDRESSEE	EQUENT	13. DATE OF SUB:	DATE	11. AS OF	С	APP CODE N/A
0	1	0	SSC-PAC/COTR				·		. REMARKS
0	1	0	DARPA/STO	ign being	new hardware des	esign and the	he system d	L captures both to	ock 3: This CDRL
				nts.	are design docume	m and hardwa	es the syste	Node. It combin	troducing into the i
				UIS.	and their contrac	anent agencie	, Jo Govern	non authorized (C	OCK S. C. DISHIBUI
				-iee	alam Alamano Israel (1911)	0: 5		real line of the officer	PDEO mosta at a
				eπort.	sign throughout the	or System De	nent plans f	requirea to aocur	okeu means as r
				ition, any	ree, demos. In add	each of the th	ued prior to	means one is issues to the effort.	ock 10: 3TIMES n
									ontractor Format
			-					ata d	Cubmit as see
				Customer	ed on MAINGATE	shall be place	nd materials	copy of reports ar	Submit as generat lock 14: One (1) co ollaboration E-Roo
									eil.hoff@navy.mil
<del> </del>	1							mil	rry.stotts@darpa.
1	†	<del> </del>							my.stottstegdarpa.
						,			
-									
	-								
-	-								
-	-	+							
-	-								
-	+		***************************************						
-	-								
0	2	0	15. TOTAL→						
	ATE	J. D/			I. APPRO		H. DATE 12 June 200		. PREPARED BY
	al Repres	D. COPIES  Final  Reg   Representation   Property   Pro	DOCUMENT    JITION	ACTOR THEON COMPANY  LE  HARDWARE-DESIGN DOCUMENT  6. REQUIRING OFFICE DARPA/STO  14. DISTRIBUTION  A. ADDRESSEE  Draft  Reg Reprosessed Reprosessed Region Region Reprosessed Region Re	F. CONTRACTOR THE RAYTHEON COMPANY  3. SUBTITLE SYSTEM/HARDWARE-DESIGN DOCUMENT  6. REQUIRING OFFICE DARPA/STO  SUBMISSION  14. DISTRIBUTION  SEQUENT  a. ADDRESSEE Draft Reg Reproduction  SSC-PAC/COTR  DARPA/STO  DARPA/STO  DARPA/STO  DISTRIBUTION  Customer  SCO-PAC/COTR  DARPA/STO  DA	F. CONTRACTOR THE RAYTHEON COMPANY  3. SUBTITLE  SYSTEM/HARDWARE-DESIGN DOCUMENT  FREFERENCE  6. REQUIRING OFFICE DARPA/STO  12. DATE OF 1ST SUBMISSION 14. DISTRIBUTION  13. DATE OF SUBSEQUENT  SSC-PAC/COTR 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	FR NO0083    F. CONTRACTOR THE RAYTHEON COMPANY   3. SUBTITLE   SYSTEM/HARDWARE-DESIGN DOCUMENT	F. CONTRACTOR NO. 101-9C-0083  F. CONTRACTOR THE RAYTHEON COMPANY THE RAYTHEON COMPANY TAITEM  ND TECHNICAL REPORTS  SYSTEM/HARDWARE-DESIGN DOCUMENT  SYSTEM/HARDWARE-DESIGN DOCUMENT  10. FREQUENCY 3TIMES  11. AS OF DATE  13. DATE OF SUBSEQUENT  14. DISTRIBUTION  5. COPTES  DARPA/STO  15. TORAL  16. REQUENCY 3TIMES  16. REQUENCY 3TIMES  17. DATE OF SUBSEQUENT  18. SSC-PAC/COTR  19. DARPA/STO  10. PREVIOUS DESIGN DOCUMENT  10. REQUENCY 3TIMES  11. AS OF DATE  13. DATE OF SUBSEQUENT  14. DISTRIBUTION  5. COPTES  DARPA/STO  15. TORAL  SSC-PAC/COTR  15. DARPA/STO  15. DARPA/STO  15. DARPA/STO  16. COPTES  DARPA/STO  17. DARPA/STO  18. DARPA/STO  19. DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  AS USEN COMPANY  A. DISTRIBUTION  5. COPTES  DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DESIGN DOCUMENT  A. DARPA/STO  16. DARPA/STO  17. DARPA/STO  18. DARPA/STO  19. DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. SUBSTRIBUTION  5. COPTES  DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DISTRIBUTION  5. COPTES  DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DISTRIBUTION  5. COPTES  DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DARPA/STO  10. DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DARPA/STO  10. TORAL  THE RAYTHEON COMPANY  A. DARPA/STO  11. AD DARPA/STO  12. DARPA/STO  13. DARPA/STO  14. DISTRIBUTION  15. DARPA/STO  15. DARPA/STO  15. DARPA/STO  16. DARPA/STO  17. DARPA/STO  17. DARPA/STO  19. DARPA/STO  10. DARPA/STO  10. DARPA/STO  10. DARPA/STO  11. AD DARPA/STO  11. AD DARPA/STO  12. DARPA/STO  13. DARPA/STO  14. DARPA/STO  15. DARPA/STO  15. DARPA/STO  15. DARPA/STO  16. DARPA/STO  17. DARPA/STO  17. DARPA/STO  17. DARPA/STO  19. DARPA/STO  19. DARPA/STO  10. DARPA/STO  11. DARPA/STO  15. DARPA/STO  16. DARPA/STO  17. DARPA/STO  17. DARPA/STO  17. DARPA/STO  17. DARPA/STO  19. DARPA/STO  11. DARPA/STO  19. DARPA/STO  10. DARPA/STO  10.	E CONTRACTIFER NO HR0011-09-C-0083  7. ITITLE OF DATA ITEM SCIENTIFIC AND TECHNICAL REPORTS  SYSTEM/HARDWARE-DESIGN DOCUMENT  SYSTEM/HARDWARE-DESIGN DOCUMENT  STATEMENT STATEMENT OF THE RAYTHEON COMPANY  9. DIST STATEMENT STATEMENT C 10. REQUIRENCY 3TIMES 11. AS OF DATE 13. DATE OF SUBSEQUENT  C 11. AS OF DATE 13. DATE OF SUBSEQUENT  C 2. DATE OF SUBSEQUENT  OF THE RAYTHOON COMPANY  STATEMENT OF THE RAYTHOON COMPANY  SYSTEM/HARDWARE-DESIGN DOCUMENT  4. REQUIRING OFFICE DARPA/STO  14. DISTRIBUTION  SSC-PAC/COTR 0 1 1 0  DARPA/STO 0 0 1

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Artington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

I I I I I I I I I I I I I I I I I I I			sc	TM OTHER _MI	TDP	C. CATEGORY:	В	B. EXHIBIT		. CONTRACT LINE IT
					F. CONTR		PR NO.	E. CONTRACT HR0011-09-C		D. SYSTEM/ITEM MAINGAT
			,		3. SUBTIT				2. TITLE OF D	. DATA ITEM NO.
				SPECIFICATION	SYSTEM	5	ICAL REPORT	AND TECHN	SCIENTIFIC	A012
18. EST				6. REQUIRING OFFICE DARPA/STO			5. CONTRACT CSOW			DI-MISC-80711A/T
<b>-</b> [i]	IE C	o. COPI		14. DISTRIBL	UBMISSION	12. DATE OF 1ST S	JENCY Once	10. FREQU	9. DIST STATEMENT	'. DD 250 REQ LT
<b>┤</b> !┗──		Fin		a. ADDRESSEE	EQUENT	13. DATE OF SUBS		11. AS OF	С	. APP CODE
<u>d</u> i	Repro	Reg	Draft			*	*			N/A
ļ	0	1	0	SSC-PAC/COTR						6. REMARKS
<b>∦</b> ;	0	1	0	DARPA/STO	ors.	and their contract	nment agencies	to US Gover	tion authorized	Block 9: C: Distribut
- i - i					vill forward					Block 9 is clarified s the approved intering
];										Contractor Format
- :									ted.	* Submit as generat
- <b> </b> i					ustomer	on MAINGATE C	shall be placed	and materials	opy of reports	Block 14: One (1) co
-i			-				nt to:	notification se	om and email r	Collaboration E-Roo
- -										neil.hoff@navy.mil
			<b></b>						mil	larry.stotts@darpa.i
]!										
-11										
- i	-		-							
-	-	+	+							
- i	†	1								
1										
<b>-!</b> :										
-li										
<b>-</b>  !	-	-	<u> </u>							
-1:		+	-							
i		1								
]										
1		-								
_ I	-	-								
:		-								
- i										
<u> </u>										
]										
<b>_</b> i	0	2	0	15. TOTAL→				1		0.00504-55
1		ATE	J. DA			I. APPRO' Robin Sw	00	H. DATE 12 June 20		G. PREPARED BY

ı

# CDRL A013 RESERVED

(1 Data Item)

Form Approved OMB No. 0704-0188

E

		12 June 20	09	Robin Sw					
G. PREPARED BY		H. DATE		I. APPROV	ED BY	15. IUIAL	0 J. D		U
						15, TOTAL→	0	2	0
								-	-
							-		-
							-		-
							+		
								-	-
							-	-	-
							-		
								-	-
rry.stotts@darpa	a.mil								ļ
eil.hoff@navy.mi	l and								
tification sent to	);								
		MAINGATE C	istomer Collabor	ation E-Room and	email			-	
Submit as gener	ated.							-	<del> </del>
ontractor Forma								-	
-									
llock 10: 3TIME n esign changes to		rior to each of	the three, demos	s. In addition, any	other				
				•			-	<del> </del>	
LOCK 9: D: Dietr	ibution authoris	zed to DoD and	d US DoDcontrac	ctors only					
ailored to allow c	ontractor's forn	nat.				DARPA/STO	0	1	0
6. REMARKS						SSC-PAC/COTR	0	1	0
N/A	D	II. AS OF		R/ASR	. WILLIAM	a. ADDRESSEE	Draft	Reg	Repro
APP CODE	STATEMENT	11. AS OF	TIMES	3. DATE OF SUBS	OUENT	a. ADDRESSEE		b. COP	IES nal
DD 250 REQ	9. DIST	10. FREQU		2. DATE OF 1ST SI	BMISSION	14. DISTRIE	BUTION		
AUTHORITY (Data ID-IPSC-81433A)		ocument No.)	5. CONTRACT R CSOW	REFERENCE		6. REQUIRING OFFICE DARPA/STO			
A014	SCIENTIFIC	AND TECHN	ICAL REPORTS		SOFTWA	RE REQUIREMENTS	SPECIF	ICA H	JN.
	1		ICAL DEDODIC		:		005015	10 A T1	- N
MAING/	2. TITLE OF	HR0011-09-C	-0083		THE RAY	THEON COMPANY			
SYSTEM/ITEM		E. CONTRACT			F. CONTR	ACTOR			
CONTRACT LINE 00		B. EXHIBIT	В	C. CATEGORY:	TDP	TM OTHER _IF	SC		

(1 Data Item)

Form Approved OMB No. 0704-0188

CONTRACT LINE   000 ), SYSTEM/ITEM	)1	B. EXHIBIT		C. CATEGORY:						
			В	O. GATEGORI.	TDP	TM OTHER	IPSC			1
		E. CONTRACT/			F. CONTRA	ACTOR THEON COMPANY				1
. DATA ITEM NO.	2. TITLE OF D	ATA ITEM			3. SUBTIT	LE				17. PRICE GROUP
A015	SCIENTIFIC	AND TECHN	ICAL REPORTS	S	SOFTWA	RE DEVELOPMENT	AND TES	ST PLA	۸N	
DI-IPSC-81427A		ument No.)	5. CONTRACT	REFERENCE		6. REQUIRING OFFICE DARPA/STO				18. ESTIMA TOTAL PRI
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY Once	12. DATE OF 1ST S	UBMISSION	14. DISTRIE				i
APP CODE	_	11. AS OF		13. DATE OF SUBS	FOUENT	a. ADDRESSEE		b. COP	nal	<u> </u>
N/A	С	11. A3 OF		* R/ASR	LGOLIN	a. ADDICEGGEE	Draft	Reg	Repro	1
16. REMARKS						SSC-PAC/COTR	0	1	0	i
						DARPA/STO	0	1	0	[
Block 3: This CDR			development a	nd test plans. It o	ombines					
Contractor Format										
*Submit ás genera	ted. In addition	, any other de	esign changes to	o the effort.						]:
Block 9: C: Distribu	ation authorized	to US Gover	nment agencies	and their contrac	tors.		-	-	-	<u> </u>
Block 14 Submit e		aced on MAIN	IGATE Custome	er Collaboration E	Room and					
							<del>-   ·</del>	-		
neil.hoff@navy.mil	and						<del></del>	-	+	1
larry.stotts@darpa	.mil									]i
								1_		-  -
								-	<del> </del>	-li
								+	-	
	i							-	-	1
								$\dagger$	<b>—</b>	Į.
										]!
								-		_ i
							<del></del>		+	-1.
										╣
									-	1
			•							1
										∃¦
										_1
								_		_ .
									-	- <b> </b> ;
										- i
								-	-	<b>-</b>  !
						15. TOTAL→	0	2	0	-1:
G. PREPARED BY		H. DATE		I. APPRO			J. D	ATE		1
		12 June 20	09	Robin Sv	vatloski					1

(1 Data Item)

Form Approved OMB No. 0704-0188

or the Contract/PR No. listed in	BIOUR E.									ì
A. CONTRACT LINE I		B. EXHIBI	В	C. CATEGORY:		TM OTHER_IF	PSC	-		1
D. SYSTEM/ITEM		E. CONTRACT	/PR NO.	1	F. CONTR	ACTOR				1
D474 17744 NA		HR0011-09-0	2-0083			THEON COMPANY				17. PRICE
I. DATA ITEM NO.	2. TITLE OF D				3. SUBTIT					GROUP
A016	SCIENTIFIC	AND TECHN	IICAL REORTS		SOFTWA	ARE VERSION DESCR	IPTION	(SVD)		ı
B. AUTHORITY (Data DI-IPSC-81442A/T	Acquisition Do	cument No.)	5. CONTRACT CSOW	REFERENCE		6. REQUIRING OFFICE DARPA/STO	-			18. ESTIMA TOTAL PR
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY TIMES	12. DATE OF 1ST S	UBMISSION	14. DISTRIE				i
8. APP CODE	-	11. AS OF		13. DATE OF SUBS	EQUENT	a. ADDRESSEE		b. COP		! <b></b>
N/A	C	11. A3 OF	*	* R/ASR	EQUENT	a. ADDRESSEE	Draft	Reg	Repro	1
16. REMARKS						SSC-PAC/COTR	0	1	0	i
						DARPA/STO	0	1	0	1
Tailored to allow co	ontractor's form	at.						ļ		
BLOCK 9: D; Distri	bution authoriz	ed toUS Gove	ernment agencie	es and their contra	ctors.		-			ı
			-				-			1,
Block 10: 3TIMES of design changes to		prior to each o	ine inree, den	nos. In addition, a	ny otner					li
Contractor Format	' Suhmit as car	nerated								]!
										ľ
Submit electronical notification sent to:		MAINGATE C	ustomer Collabo	oration E-Room an	d email					li .
neil.hoff@navy.mil	and									<u> </u>
larry.stotts@darpa	.mil						<del></del>	-		-{;
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····						-	-		1
								+	1	1!
										];
								-		-1.
						-		-	-	-¦i
							<del></del>	-	+	-li
								_		1
										]i
										<u> </u> !
							_	-		- ¦
								+	-	-i
								-	-	- !
										1
										Ţi.
										_ ;
										⊣i
								+-	-	<b>-</b> !
						15. TOTAL→	0	2	0	1
G. PREPARED BY		H. DATE		I. APPRO			J. D	ATE		-
		12 June 20	109	Robin Sv	vatioski					1

# CDRL A017 RESERVED

(1 Data Item)

Form Approved OMB No. 0704-0188

i.			sc	TM OTHER _IP	: TDP	C. CATEGORY	В	B. EXHIBIT		CONTRACT LINE IT. ALL
					F. CONTRA			CONTRACTA R0011-09-C		). SYSTEM/ITEM MAINGAT
17. PRI			.,		3. SUBTITE		-0063		2. TITLE OF DAT	. DATA ITEM NO.
GROUP		RT	T REPO	RE /HARDWARE TES	SOFTWA	3	ICAL REORTS	ND TECHN	SCIENTIFIC A	A018
18. EST TOTAL				6. REQUIRING OFFICE DARPA/STO		REFERENCE	5. CONTRACT	ment No.)		. AUTHORITY (Data A DI-IPSC-81440A/T
				14. DISTRIB	SUBMISSION	12. DATE OF 1ST S		10. FREQU	9. DIST STATEMENT	. DD 250 REQ
╢┖		. COPI	L L	a, ADDRESSEE	PEOLIENT	42 DATE OF SUBS	TIMES			LT L APP CODE
li.	Repro	Reg	Draft	a. ADDRESSEE	SEQUENT	13. DATE OF SUBS * R/ASR	TAIL *	11. AS OF	D	N/A
<u></u> ji	0	1	0	SSC-PAC/COTR					d	6. REMARKS
<u> </u>	0	1	0	DARPA/STO						
ļi ļi					or [	e, make changes of	STR up to da			R/ASR means revisi- corrections, and sub
<u></u>					ractors	and U.S. DoD Cont	nt of Defense a	o Departme	tion authorized to	Block 9: D: Distributi only.
					ition, any	ee, demos. In add	each of the thr	days after		Block 10: 3TIMES mother design change
									-	Contractor Format
									ited.	* Submit as generat
			-		E-Room and	ner Collaboration E	NGATE Custor	ced on MAII		Block 14: Submit ele
_ լ - լ									and	neil.hoff@navy.mil a
- -		-	<del> </del>						.mil	iarry.stotts@darpa.r
_i										
- ¦ ·										
];			·							
<b>-</b> [:	<del> </del>	-	-							
<b>]</b> i										
_										
-!		+	-							
1:	+	-								
i										
_]:										
-li	-									
- !	0	2	0	15. TOTAL→						
7			J. D.			I. APPRO	09	H. DATE 12 June 20		G. PREPARED BY

(1 Data Item)

Form Approved OMB No. 0704-0188

NE ITEM NO. B. EXHIBIT C. CATEGORY:	TM OTHERN	NDTI			1
E. CONTRACT/PR NO. F. CONTRA			-		i .
D. 2. TITLE OF DATA ITEM 3. SUBTITLE					17. PRICE GROUP
TEST AND EVALUATION PLAN STATUS	REPORT				
Data Acquisition Document No.) 5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE DARPA/STO				18. ESTIM/ TOTAL PR
9. DIST 10. FREQUENCY 12. DATE OF 1ST SUBMISSION STATEMENT 3TIMES	14. DISTRIB				1
	ADDRESSE		b. COP		ļ: L
C 11. AS OF DATE 13. DATE OF SUBSEQUENT SUBMISSION **	a. ADDRESSEE	Draft	Reg	Repro	
	DARPA/STO	1	1	0	i
	SSC-PAC/COTR	1	1	0	1.
					<b> </b>
ribution authorized to US Government agencies and their contractors.		ļ			<b>∤i</b>
ES means issued 15 days prior to each of the three, demos. In addition, any langes to the effort.					
nat nerated.					
pproval by letter from the COTR within 15 days after receipt. Disapproval		-			
tion/resubmission within 15 days after receipt.					
nit electronically, placed on MAINGATE Customer Collaboration E-Room and on sent to					
<u>.mil</u> and					-
<u>arpa.mil</u>			-	-	-11
			+	<del> </del>	-  -
					Ti .
					4
		+		<b></b>	-  1
		-	+	<del> </del>	1.
		+			<b>-</b> [i
					]:
				<u> </u>	-11
			-		- <b>l</b> i
		-		+	-1
		-		-	
					1
					]:
				<u> </u>	<b>-</b> li
	15. TOTAL→	1	+-	10	<u>-l</u> !
BY H. DATE I, APPROVED BY	15. 1U IAL7	0 J. D.	2 ATE	0	<b>- </b> ;
12 June 2009 Robin Swatloski		1			ľ

(1 Data Item)

Form Approved OMB No. 0704-0188

A. CONTRACT LINE I'		B. EXHIBI	r B	C. CATEGORY	': TDP	TM OTHER N	AISC.			İ
D. SYSTEM/ITEM MAINGA		L CONTRACT HR0011-09-0	/PR NO.		F. CONTR					1
1. DATA ITEM NO.	2. TITLE OF D		,-0063		3. SUBTIT					17. PRICE
A020	SCIENTIFIC	AND TECHN	IICAL REPORTS		PRODUC	CTION UNIT COST (P	JC) EST	IMATE		GROUP
4. AUTHORITY (Data DI-MISC-80711A/		ument No.)	5. CONTRACT R	EFERENCE		6. REQUIRING OFFICE DARPA/STO				18. ESTIMATE TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY 1: ORTLY	2. DATE OF 1ST 60DA		14. DISTRII	BUTION			
8. APP CODE		11. AS OF		3. DATE OF SUB		a. ADDRESSEE		b. COP	IES nai	<u> </u>
N/A	С	11. A3 OF		A	SEQUENT	a. ADDRESSEE	Draft	Reg	Repro	1
16. REMARKS			— <u> </u>			SSC-PAC/COTR	0	1	0	1
						DARPA/STO	0	2	0	<u> </u>
Block 9: C: Distribut	tion authorized	to US Gover	nment agencies a	nd their contrac	ctors.	DARPA/CMO	0	1	0	
Block 10: Drafts pro	ovided quarterly	to demonst	rate progressive r	naturity and cor	nfidence in				ļ	li .
product. Final due			, 0	,			-		-	1
Contractor Format							-		<del> </del>	1
The BLIC setimeter	حفظته مطالمظم	ماغلى المعاملات		-4:				<del> </del>	i	
The PUC estimate of materials, vendo										<u>]</u> !
processes and asse	ociated yield/lea	arning curve	assumptions, and	a breakout of I	abor vs.					]
material content. T specific configuration	ne estimate sn on, quantities o	all provide a feach compo	fully disclosed pri onent, associated	ce breakdown, i SWAP, applica	meaning tion of					ļ.
appropriate rates a	nd factors, pro	rata of specia	al test equipment/	tooling, etc. for	meeting the					Įi .
proposed program.			the MAINGATE un						-	1
towards meeting ur	nit cost through	out the durat	ion of the progran	1.	Roi progress				-	
Block 14: Submit e	lectronically, pl.	aced on MAI	NGATE Customer	Collaboration	E-Room and			-	-	li
email notification se	ent to:			,	- ,					
neil.hoff@navy.mil										<b>]</b> i
larry.stotts@darpa	.mil								-	1
patrick.bailey@dar	pa.mil and									1
robin.swatloski@da	arna mil			•						-li
				•						<u> </u>
Electronic submiss	inns shall he vi	a arress to t	he DARPA Evtrar	net renorting na	ne.				<del></del>	_
www.tfims.darpa.m		a access to t	HE DAIG A LAGO	ict reporting pa	ge		1	+	<b></b>	<del>l</del> i
								+	+	-1
								<del> </del>	1	1!
									<b></b>	-11
										]i
										_  -
		*						_		1
										-1
						45 TOTAL		+-	<del>  _</del> _	- <b>l</b> i
G. PREPARED BY		H. DATE		I ADDD	OVED BY	15. TOTAL→	0 J. D.	4 ATF	0	<b>-</b> ∤!
KEI AKED BI		12 June 20	09	Robin S			3.0	~ 1 &		
		L.,					1			-li
DD Form 1423-	1, JUN 90 (E	G)	Previou	obsolete	Page _20_	of_31	Pag	es	19	

(1 Data Item)

Form Approved OMB No. 0704-0188

								OTHER_N	IGMT			1
D. SYSTEM/ITEM		CONTRACT			. CONTR	ACTOR					<u> </u>	
MAINGA	TE H	R0011-09-0						COMPANY				1,
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM			3	. SUBTIT	LE					17. PRICE GROUP
A021	CONTRACT F	UNDS STA	TUS REPORT	(CFSR)					•			
4. AUTHORITY (Data DI-MGMT-81468	Acquisition Docu	ment No.)	5. CONTRACT CSOW	REFERENCE	Ē		6. REQU	IRING OFFICE /STO				18. ESTIMAT TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQU		12. DATE OF	1ST SUB	MISSION	14.	DISTRIE				];]
	STATEMENT		DRTLY	44 0475 05				-		b. COP	IES nal	<b>-</b>  ∙L
8. APP CODE N/A	D	11. AS OF	DATE .	13. DATE OF SUBMISSION		UENI	а. А	a. ADDRESSEE		Reg	Repro	ქ!
16. REMARKS							DARPA	/CMO	0	1	0	1;
The report shall cor	ntain forecasts h	y month for	the next six mo	othe by augr	der for the		DARPA	/STO	0	2	0	1
remaining fiscal year							SSC-PA	AC/COTR	0	1	0	]!
reconciled to the Go end does not coinci	overnment's fisc	al year end	at 30 Septembe				DCMA/	ACO	0	1	0	];
end does not come	ide with the Gove	citinicia s ii	scal year end.					· 		ļ		<b></b> li
* The last day of the government's fiscal	e contractor's mo	onthly accou	ınting period ne	earest the end	d of the							1
		,		· · · · · · · · · · · · · · · · · · ·				<del> </del>	-{¦			
** The initial submis monthly accounting									-	-		⊣i
contract award. Su									-	1	-	<u> </u>
Block 9: D: Distribu	ition authorized t	n Denartme	nt of Defense a	and U.S. DoD	) Contract	ors						];
only.		о воранине		O.O. DOD	00111140	.010						_li
Block 14: Submit e	lectronically, pla	ced on MAI	NGATE Custon	ner Collabora	ation E-Ro	om and				-	-	_!!
email notification se					20011 2 1 10		· · · · · ·			-		-11
neil.hoff@navy.mil	and									-	<del> </del>	-li .
										<b></b>	1	<b>⊣</b> ¦
larry.stotts@darpa												_];
patrick.bailey@dar	pa.mil and											<u> </u> !
robin.swatloski@da	arpa.mi									+	-	-¦;
Electronic submiss	sions shall be via	access to t	he DARPA Ext	ranet reportin	na page					+	-	⊣i
www.tfims.darpa.m					51.5					+	+	<b>⊣</b> !
												<b>- </b> ;
												lı
												1
												_
												_ii
									-	-		<u>-</u> !
									-	+		-
										+	-	<b>⊣</b> i
												_i
	······································		· · · · · · · · · · · · · · · · · · ·				15. TO	)TAL→	0	5	0	<b>-</b> !:
G. PREPARED BY		H. DATE 12 June 20	09		APPROVED				J. D	ATE		

(1 Data Item)

Form Approved OMB No. 0704-0188

	_	•	Page _22_						
AIE	ATE	J. D.			I. APPRO Robin Sw	09	H. DATE 12 June 20		S. PREPARED BY
5 0		1	15. TOTAL→						
	1								
	1								
-	+-								
+									
1	-								
		_							
	_								
									·
				٠	and reporting pag	HE DANFA EX	GUCESS 10 1		v.tfims.darpa.m
					anet reporting pag	ha DADDA Ess	access to t	sions shall be vie	stranja submiss
								arpa.mi	n.swatloski@da
								pa.mil and	rick.bailey@dar
	-	-							
	+	-						.mil	.stotts@darpa.
	-	-							off@navy.mil
	-								
	-	-		tion sent	n and email notifica	NGATE E-Roor	ced on MAII	lectronically, pla	14: Submit el
				-					
				actors	nd U.S. DoD Contr	nt of Defense a	o Departme	ition authorized t	9: D: Distribut
		<b></b>		Ì				5000.04-M-1.	lected in DoD
	-	1			vare Data Reportin			nt with the capita	d be consisten
	+	-			e DD Forms 1921, The CCDR subm				
	-	-		1001.1	DD F 1001	antimosta a service			
1 0	+-	0	DCMA/ACO	ŀ			l.	ally as generated	nit electronica
1 0	+	0	DARPA/CMO	-					s such as desc
2 0	+	1	DARPA/STO	uled	there are no sched	chnical effort if	end of the te	nd etc. or at the e	CDR, TRR an
1 0		0	SSC-PAC/COTR						MARKS
Reg Repro	Reg	Draft			SUBMISSION *	*		U	
Final			a. ADDRESSEE	EQUENT	13. DATE OF SUBS		11. AS OF	D	PCODE
o. COPIES	h COP		14. DISTRIBU	JBMISSION	12. DATE OF 1ST S	TRLY	10. FREQL	9. DIST STATEMENT	250 REQ
i		UTION	DARPA/STO		·	CSOW		, 81566, and 815	
			6. REQUIRING OFFICE		REFERENCE	5. CONTRACT		Acquisition Docu	
1		121-2	M 1921, 1921-1 AND 19	DD FORM	G (CCDK)	I A KEPORTIN	K COST DA	CONTRACTO	A022
ı		221.2			C (CCDB)	TA DEDODTIA			
				3. SUBTITL		-0000		2. TITLE OF DA	ITEM NO.
			ACTOR THEON COMPANY	F. CONTRA			CONTRACT/ R0011-09-C		TEM/ITEM MAINGAT
1	•	NCL	TM OTHER _FN	TDP		В		LIN 0004	0002 and Cl
11				2	C. CATEGORY:		B. EXHIBIT	TEM NO.	TRACT LINE IT

# CONTRACT DATA RF 'JIREMENTS LIST

(1 Data ....n)

⁻orm Approved 3 No. 0704-0188

A. CONTRACT LINE IT		B. EXHIBIT	В	C.	CATEGORY		TM OTHE	R MISC			1
D. SYSTEM/ITEM MAINGA		CONTRACT	/PR NO.			F. CONTR		······································			1
1. DATA ITEM NO.	2. TITLE OF DA					3. SUBTIT					17. PRICE
A023	RESEARCH &		MENT PROJEC	CT (R&	AD)	FUNDING	REPORT				GROUP
4. AUTHORITY (Data /		ment No.)	5. CONTRACT CSOW	REFER	RENCE		6. REQUIRING OF DARPA/STO	FFICE			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ	9. DIST	10. FREQU		12. DA	TE OF 1ST S	UBMISSION	14. DI	STRIBUTION			<b>(: )</b>
LT	STATEMENT		or for agreed on events		**		400000		b. COP		[i]
8. APP CODE N/A	D	11. AS OF	DATE *		ATE OF SUBS NSSION **	SEQUENT	a. ADDRESS	Draft	Fi Reg	nal Repro	' 
16. REMARKS	•						SSC-PAC/COT	R 0	1	0	<u> </u>
THIS REPORT SHA	ALL NOT CONT	AIN CLASS	IEIED INEORM	ΙΔΤΙΩΝ	J		DARPA/STO	0	2	0	]
QTRLY or for agree as agreed upon by I	ed upon events - both parties the	- means at a financial da	a minimum a qu ta will be submi	arterly itted.	report will b						
* As of the last day and 30 Jun for the c						31 Dec,					
** Submit 15 calend	lar days after Bl	ock 11 time.									] [ · · · · · · · · · · · · · · · · · ·
Contractor Format											1
Block 9: D: Distributionly.	tion authorized t	to Departme	nt of Defense a	and U.S	S. DoD Conf	ractors					
Block 14: Submit e and email notification		aced on MAI	NGATE Custo	mer C	ollaboration	E-Room					-
neil.hoff@navy.mil	and										
larry.stotts@darpa.	<u>mil</u>										
Patrick.bailey@dar	pa.mil										- 1 - 1
Electronic submiss www.tfims.darpa.m		access to t	he DARPA Extr	ranet r	eporting pag	ge					
							· .		-		
											-
										<del></del>	- -
											<b></b>
									-	<del> </del>	
											_ .
						•					-
G. PREPARED BY		U DATE	<del></del>		l L ADDDO	WED BY	15. TOTAL		ATE	0	<b>-</b>
G. FREPARED BY		H. DATE 12 June 20	09		I. APPRO Robin Sv			J. D	ATE		
DD Form 1423-	1, JUN 90 (EC	*		ious e	ditions are	obsolete	Page	_23_ of _31	Pag	es	

(1 Data Item)

Form Approved OMB No. 0704-0188

ALL	TEM NO.	B. EXHIBIT	В	C. CATEGORY		TM OTHER _M	IISC			i B
). SYSTEM/ITEM MAINGA		. CONTRACT			F. CONTR					, ] <b>[</b>
. DATA ITEM NO.	2. TITLE OF DA	TA ITEM			3. SUBTIT	LE				17. GR
A024	RESEARCH &	& DEVELOP	MENT (R&D) Pi	ROJECT	PROJEC	T INFORMATION AND	DESCR	RIPTIO	N	1
. AUTHORITY (Data A DI-MISC-81612B/T			5. CONTRACT CSOW	REFERENCE		6. REQUIRING OFFICE DARPA/STO			18. TO	
. DD 250 REQ	9. DIST STATEMENT	10. FREQU		12. DATE OF 1ST	SUBMISSION	14. DISTRIE	BUTION			:
LT	SIATEMENT		SREQ			_		b. COP		iL
. APP CODE N/A	С	11. AS OF		13. DATE OF SUB SUBMISSION **	SEQUENT	a. ADDRESSEE	Draft	Fir Reg	nal Repro	l l
6. REMARKS			· · · · · · · · · · · · · · · · · · ·			SSC-PAC/COTR	0	1	0	i
HIS REPORT SHA	ALL NOT CONT	AIN CLASS	IFIED INFORMA	ATION		DARPA/STO	0	1	0	 
								-		ı
As of 31 Mar, 30 J	un, 30 Sept and	d 31 Dec,					1			i
** Submit 15 calend	ar days after Bi	ock 11 time.								
*	, <del>.</del> .									ŀ
Contractor Format										ı
Block 9: C: Distribut	ion authorized	to US Gover	nment agencies	and their contract	ctors.			ļ		1
Block 14: Submit el email notification se	ectronically, pla	ced on MAIN	NGATE Custom	er Collaboration E	E-Room and					i
										i
neil.hoff@navy.mil	and									I
arry.stotts@darpa.	<u>mil</u>							ļ		
							.		ļ	li
						,	<del></del>	-	1.	1
		•				<u> </u>				
								+		!
								+		i
								1		1
										<u> </u>
										ĺ
					•					Į!
							_	-	-	<b>!</b> .
								-		li
								<del>                                     </del>	-	ļı.
									-	1
								+	<del>                                     </del>	1
								-		Ţi.
										1
										]
										Ji.
						15. TOTAL	0	2	0	_
G. PREPARED BY		H. DATE 12 June 20	na	I. APPRO Robin St	OVED BY		J. D.	ATE		1

(1 Data Item)

Form Approved OMB No. 0704-0188

A. CONTRACT LINE I		B. EXHIBIT	г В	C. CAT	EGORY:	TDP	TM	OTHER M	IISC			i
D. SYSTEM/ITEM MAINGA		CONTRACT R0011-09-0	PR NO.			F. CONTRA	ACTOR					1
1. DATA ITEM NO.	2. TITLE OF DA					3. SUBTIT						17. PRICE
A025	RESEARCH &	DEVELOP	MENT (R&D) PF	ROJECT		TECHNIC	AL STATU	S REPORT	<b>7</b>			GROUP
4. AUTHORITY (Data DI-MISC-81612B/	Acquisition Docu	ment No.)	5. CONTRACT CSOW	REFERENC	CE		6. REQUIR	ING OFFICE				18. ESTIMATED TOTAL PRICE
7. DD 250 REQ	9. DIST STATEMENT	10. FREQU		12. DATE C	OF 1ST SI	JBMISSION	14.	DISTRIE				
LT	ŀ		QRTLY							b. COP		il
8. APP CODE N/A	С	11. AS OF		13. DATE ( SUBMISSI		QUENT	a. ADD	RESSEE	Draft	Reg	Repro	1
16. REMARKS		·					SSC-PAC	/COTR	0	1	0	i ,
THIS REPORT SHA	ALL NOT CONT	AIN CLASS	IFIED INFORMA	ATION			DARPA/S	ТО	0	1	0	1
* As of 30 Sep, 31 [	Dec, 31 Mar and	30 Jun										1
** Submit 15 calend	lar days after Blo	ock 11 time.							-			l
Contractor Format												ĺ
Block 9: C: Distribu	tion authorized t	o US Gover	nment agencies	and their	contracte	ors.			-			1
Block 14: Submit el email notification se	ectronically, placent to:	ced on MAII	NGATE Custome	er Collabo	ration E-	Room and						1
neil.hoff@navy.mil	and											<b>]</b> i
larry.stotts@darpa.	<u>mil</u>								-	-	-	11
												1:
												-
												ļi.
								·		-		-{;
												];
							-			-	-	-
												_ _}i
											-	
				,								√i
										+	-	1!
												];
												1
												- :
										-		- i
·												1
												_li
G. PREPARED BY		H. DATE			. APPROV		15. TOTA	\L	0 J. D.	ATE	0	<b>-</b>  ;
		12 June 20	09	F	Robin Swa	tioski						
DD Form 1423-	1, JUN 90 (EG	S)	Previo	ous editio	ns are o	bsolete		Page _25_	of _31	Pag	es	1

(1 Data Item)

Form Approved OMB No. 0704-0188

ı

G. PREPARED BY	H. DATE 12 June 20	00	I. APPRO		15. TOTAL	→ 0 J. D	1 ATE	0	
					15. TOTAL	→ 0	1	0	
									1
						1			1.
							+		1
									I
									1
							-		i
									1
									i i
ocument as well as location o	n any collaborat	ion site employe	ed for document ex	change.			+	+	I
eport shall include revision nu									l l
									i
eil.hoff@navy.mil									l
mail notification sent to:	,								ļ I
ock 14: Submit electronically,	placed on MAIN	NGATE Custome	er Collaboration E-	Room and					ı
ock 9: C: Distribution authoriz	ed to US Gover	nment agencies	and their contract	ors.					 
ontractor Format									i
Submit 15 calendar days after	r Block 11 time.								i
As of 30 Sep, 31 Dec, 31 Mar	and 30 Jun				· · ·	-			i
									[ •
. REMARKS					SSC-PAC/COTR	0	Reg 1	Repro 0	
APP CODE C	11. AS OF		13. DATE OF SUBS	EQUENT	a. ADDRESSEE	Draft		nal	
DD 250 REQ 9. DIST LT STATEMEN	IT 10. FREQL	QTRLY	12. DATE OF 1ST S	UBMISSION	14. DISTE	RIBUTION	b. COP	IES !	
DI-MGMT-81453A/T		csow			DARPA/STO		-		18. E
AUTHORITY (Data Acquisition I		5. CONTRACT I	PEEEBENCE	1	6. REQUIRING OFFI	`E		¦i	
A026 DATA ACC	CESSION LIST					•		1:	GRO
MAINGATE  DATA ITEM NO. 2. TITLE OF	Hr0011-09-C-	0083		3. SUBTIT	THEON COMPANY				17. F
SYSTEM/ITEM	E. CONTRACT			F. CONTR	ACTOR			i	
CONTRACT LINE ITEM NO. ALL	B. EXHIBIT	r · В	C. CATEGORY:		TM OTHER	MGMT	_		

(1 Data Item)

Form Approved OMB No. 0704-0188

CONTRACT LINE 1. ALL		B. EXHIBIT	r B	C. CATEGORY	TDP	TM_X OTHER			
. SYSTEM/ITEM MAINGAT	T .	E. CONTRACT HR0011-09-C			F. CONTR				
DATA ITEM NO.	2. TITLE OF D	ATA ITEM			3. SUBTIT	LE			
A027	SCIENTIFIC	& TECHNICA	AL REPORTS		OPERAT	TIONS MANUAL / TRA	AINING M	ATERI	AL
AUTHORITY (Data / DI-MISC-80711A/T		ument No.)	5. CONTRACT	TREFERENCE		6. REQUIRING OFFIC DARPA/STO	E		
DD 250 REQ LT	9. DIST STATEMENT	10. FREQU	JENCY TIMES	12. DATE OF 1ST S	SUBMISSION	14. DISTRI	BUTION		
PP CODE				40 0475 05 000	FOUENT	4000000		b. COP	rIES nal
I/A	С	11. AS OF	*	13. DATE OF SUBS	BEQUENT	a. ADDRESSEE	Draft	Reg	Repro
REMARKS						SSC-PAC/COTR	0	1	0
				the three demos as		DARPA/STO	0	1	0
stribution to DTIC			-						
	Silver of thy De t	ougii tile O	• m.						
Submit 15 days p chnical effort.	rior to the read	liness review	s and 30 days	after conclusion of	the				
ontractor Format									
oproval/disapprova	al by letter fron	n the COTR v	within 30 days	after receipt.					
Disapproval requ	ires correction	/resubmissio	n with 30 days	after receipt of CO	TR				
submit reproducible	e on media cor	npatible with	MS-Office for \	Windows					
				es and their contrac	rtors	.,		<u></u>	-
			_	·				-	-
nail notification se		aced on MAI	NGATE CUSTO	mer Collaboration E	Koom and				
il.hoff@navy.mil	and						-		
rry.stotts@darpa.	<u>mil</u>								4
							-		
				,				-	-
								-	+
							-	-	
						15. TOTAL		2	0
3. PREPARED BY		H. DATE 12 June 20	09	I. APPRO			J. D	ATE	

(1 Data Item)

Form Approved OMB No. 0704-0188

			ss	TM OTHER _SE	TDP	C. CATEGORY	В	B. EXHIBIT		CONTRACT LINE IT ALL
i					F. CONTRA			CONTRACTA R0011-09-C	I .	SYSTEM/ITEM MAINGAT
					3. SUBTITE		-		2. TITLE OF DA	DATA ITEM NO.
		CD)	NENT (I	CE CONTROL DOCUM	INTERFA	CES	TUDY/SERVI	REPORT - S	TECHNICAL F	A028
				6. REQUIRING OFFICE DARPA/STO	-	TREFERENCE	5. CONTRACT	ment No.)		AUTHORITY (Data A DI-CMAN-81248A)
];				14. DISTRIB	UBMISSION	12. DATE OF 1ST S		10. FREQU	9. DIST STATEMENT	DD 250 REQ .T
_[i]		. COPI	t				TIMES		SIATEMENT	
-  -	Rep	Fin Reg	Draft	a. ADDRESSEE	SEQUENT	13. DATE OF SUBS SUBMISSION *	TATE *	11. AS OF	С	APP CODE /A
]i	0	1	0	SSC-PAC/COTR						REMARKS
4!	0	1	0	DARPA/STO						
- ;					tors	es and their contract	ment agencia	n IIS Gover	tion authorized t	nck 9: C: Distributi
!!	-		-		1013.	e and their contract	men ayende	J JJ GOVEII	uon aunionzeu l	
-	-									ontractor Format
╣					ny other	emos. In addition, a	f the three, de	ior to each o		ock 10: 3TIMES n sign changes to t
									ted.	Submit as generat
_					-Room and	mer Collaboration E	IGATE Custor	ced on MAIN	lectronically, pla	ock 14: Submit ele
- :	-		-		-					eil.hoff@navy.mil a
$\dashv$ i	t		1							
									TTHE	rry.stotts@darpa.i
_ ;										
i		<u> </u>								
!	+	-	-							
-:	+-		-							
	$\dagger$									
							-			
i	-	-								
_ !	+-	-	-							
;	+-	-	-							
	+	-								
-!	+									
╣	+									
i										
	-	-	-	15. TOTAL→						
	0	2 ATE	0 J. D/	15. TOTAL	VED BY	I. APPRO		H. DATE		. PREPARED BY
			] 3. 5/			Robin Sv	9	12 June 200		NEI AILED DI

(1 Data Item)

Form Approved OMB No. 0704-0188

			sc	TM OTHER_IP	DRY: TDP	C. CATEGO	Г В	B. EXHIBIT		CONTRACT LINE IT ALL
17. PRIC GROUP				ACTOR	F. CONTR			CONTRACT	E.	SYSTEM/ITEM
				HEON COMPANY	3. SUBTIT		-0083	R0011-09-C	2. TITLE OF DA	MAINGAT
							DDE (SSC)		SOFTWARE S	A029
18. E				6. REQUIRING OFFICE DARPA/STO		CT REFERENCE	5. CONTRACT	ment No.)	Acquisition Docu	AUTHORITY (Data A
:			UTION	14. DISTRIB	ST SUBMISSION			10. FREQU	9. DIST	DD 250 REQ
iL	b. COPIES				act completion		Once		STATEMENT	_T
l i	al Repro	Fin	Draft	a. ADDRESSEE	UBSEQUENT	13. DATE OF S SUBMISSION	DATE N/A	11. AS OF	В	APP CODE
i	0	1	0	SSC-PAC/COTR					L	. REMARKS
ı	0	1	0	DARPA/STO						
1										
1						es only.	nment agencie	US Gover	tion authorized to	ock 9: B: Distributi
1										ontractor Format
1					n E-Room and	mer Collaboration	NGATE Custor	ed on MAII	ectronically, plac	ock 14: Submit ele
ı									ent to:	nail notification se
									and	eil.hoff@navy.mil
										rry.stotts@darpa.r
ı		ļ							11111	iry.stotis@darpa.i
ļ.			-							
  -	<u> </u>	<del>                                     </del>								
i i		<u> </u>	-							
<b>!</b> !	<u> </u>			,		•				
1.										
]										
1	1	_								
<u> </u>	-	-								
li ∣i										
1		-								
<b>!</b> ;	-	-	-							
li l										
Ī										
]!										
1										
-∫i										
4!	-									
-{:	-	_								
-1:	+									
- 1		-								
-	-	-								
¦	0	2	0	15. TOTAL→						
٦.		ATE	J. D.		PROVED BY	LIAB	***************************************	H. DATE		S. PREPARED BY

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE IT		B. EXHIBIT		C. CATEG	ORY:	TDD	TM OTHER M	100			1	
D. SYSTEM/ITEM		CONTRACT	B				TM OTHER _M	.sc			!	
MAINGAT		CONTRACT. R0011-09-C				F. CONTR. THE RAY	THEON COMPANY				1 1	
1. DATA ITEM NO.	2. TITLE OF DA	TA ITEM				3. SUBTIT	LE				17. PRICE	
A030	SCIENTIFIC &	TECHNICA	L REPORTS			FINAL RE	EPORT				GROUP	
4. AUTHORITY (Data A DI-MISC-80711A/T		ment No.)	5. CONTRACT CSOW	REFERENCE			6. REQUIRING OFFICE DARPA/STO	• • • • • • • • • • • • • • • • • • • •			18. ESTIMATE TOTAL PRICE	
7. DD 250 REQ	9. DIST	10. FREQU		12. DATE OF	1ST SU	BMISSION	14. DISTRIB	UTION	-			
LT	STATEMENT		ONE						b. COP		i	
8. APP CODE A	С	11. AS OF	DATE	13. DATE OF SUBMISSION		QUENT	a. ADDRESSEE	Draft		nal	I	
16. REMARKS		L					SSC-PAC/COTR	2	Reg 2	Repro 2	1	
0-1							DARPA/STO	1	1	1	i	
Scientific and Techn so that, pursuant to	licai Reports I DFARS 252.235	Elements, C 5-7011, THE	organization and GOVERNMEN	d Design. Bio NT WILL FOR	OCK 9 IS SWARD	Clarified THF	DARPA/CMO	1	1	1	ı	
APPROVED FINAL the DTIC submission	REPORT to the						DCMA/ACO	1	1	1	1 1	
Contractor Format											1 5	
* At the end of the te	echnical effort										1	
** 30 days after Bloc	ck 11		,									
Approval/disapprova (COTR) within 60 da report.												
*** Disapproval requ					ipt of C	OTR						
Draft hard copy sha Times New Roman PC compatible. Da page.	. A draft CD cor	y in Micros	oft Word is also	to be provide	ed and	is to be						
A SF Form 298, rep (http://www.gsa.gov	oort documentat //Portal/gsa/ep/f	ion page ormslibrary	.do) is to be inc	luded with fina	al subn	nission.						
Block 9: C: Distribu	tion to US Gove	rnment age	ncies and their	contractors.					-	-	-li	
Block 14: Submit electronical notification sent to:	ly, placed on MA	AINGATE E	-Room Custom	er Collaborati	ion and	email						
neil.hoff@navy.mil											1	
larry.stotts@darpa.	<u>mil</u> and										1	
robin.swatloski@da	arpa.mi										- -	
								-	+-		-{¦	
									-		<b>-</b> [:	
							15. TOTAL→	4	4	4		
G. PREPARED BY		H. DATE 12 June 20	09		PPROVI			J. D.				
DD Form 1423-1	I, JUN 90 (EG	i)	Previ	ous editions	are ob	solete	Page _30_	of _31	_ Pag	es	- I	

**CONTRACT DATA REQUIREMENTS LIST** (1 Data Item)

Form Approved OMB No. 0704-0188

					9 (Revised 13 l			
0	3 ATE	2 J. D/	15. TOTAL→	I. APPROVED BY		H. DATE		. PREPARED BY
1	-	-	45 TOTAL					
	1							
+	+							
+	+							
	-	-						
-		-						
-								
<del> </del>								
	-	-						
	1							
-	-	-					arpa.mil	n.swatłoski@da
-							mil and	.stotts@darpa.
								hoff@navy.mil
	-							
				Collaboration E-Room and	IGA I E Custon	cea on MAII		k 14: Submit eli
				Collaboration E. Baser and	CATE Contain	ood on MAIA	oofronioolly ole	k 14: Submit al
				cicilise and U.S. DOD	pepartinent of		WINDER TO THORIZI	ractors only.
				efense and U.S. DoD	Donartmant -	こうさん さして	fion ALITHODIZ	k O. D. Dietribut
				nn). (Nei.	negulations (		state.gov/index.f	
		1		rade Controls in			are specified by International Ti	
				tion package will precede			RPA/SPAWAR r	
		-		ty Jurisdiction (CJ) request	draft a Commo	concept and	and opeational	NGATE design
0	1	0	DARPA/CMO	sessment of the	rmation (CPI)	Program Info	nduct a Critical F	ontractor will cor
1 0	1	DARPA/STO					DAC	
		1	SSC-PAC/COTR					EMARKS
Repro	Reg	Draft		UBMISSION N/A	*		U	
	Fina		a. ADDRESSEE	3. DATE OF SUBSEQUENT	DATE	11. AS OF	D	PCODE
ES	. COPII		14. DISTRIB	2. DATE OF 1ST SUBMISSION	ONE	10. FREQL	9. DIST STATEMENT	250 REQ A
		UTION	DARPA/STO		CSOW			I-MISC-81612B/
			6. REQUIRING OFFICE		5. CONTRACT	ment No.)		JTHORITY (Data
(ITAR)	ATION	S REGUL	TIONAL TRAFFIC IN ARM NITY JURISDICTION (CJ)		PORT	ESMENT R	SYSTEM ASS	A0031
				3. SUBTITI			2. TITLE OF DA	TA ITEM NO.
			THEON COMPANY		-0083	R0011-09-C		MAINGAT
			ACTOR	F. CONTRA		CONTRACT		STEM/ITEM
		GMT	TM OTHER _M	C. CATEGORY:	В	B. EXHIBIT		NTRACT LINE IT ALL
				RN your form to either of these addresses. Se			Block E.	ntract/PR No. listed in E