

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J - FFP	PAGE OF PAGES 1 of 3
2. AMENDMENT/MODIFICATION NO. P00005		3. EFFECTIVE DATE 01 APR 2016	4. REQUISITION/PURCHASE REQ.NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY AFLCMC/HICK		CODE FA8732	7. ADMINISTERED BY (If other than Item 6)		CODE FA8732
DEPARTMENT OF THE AIR FORCE (AFMC) AFLCMC/HIK 490 EAST MOORE DR., SUITE 270 MAFB - GUNTER ANNEX AL 36114-3000 TRACIE J. MILTON 334-416-2247 tracie.milton@gunter.af.mil			DEPARTMENT OF THE AIR FORCE (AFMC) AFLCMC/HIK 490 EAST MOORE DRIVE SUITE 270 MAFB-GUNTER ANNEX AL 36114-3000		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) AMERICAN SYSTEMS CORPORATION 14151 PARK MEADOW DR STE 500 CHANTILLY VA 20151-4230 (703) 968-5225				(X)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				X	10A. MODIFICATION OF CONTRACT/ORDER NO. FA8732-14-D-0019
CODE 61443 FACILITY CODE					10B. DATED (SEE ITEM 13) 02 APR 2014
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: () THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 43.103(a)(3) Mutual Agreement of Parties				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Update the PWS and Exhibit A.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF SIGNER (Type or print)		
			ALECIA C. CAMPBELL Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
			//signed//		01 APR 2016
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		

1. The purpose of this modification is to update the Performance Work Statement (PWS), Attachment 1 and Exhibit A. Please see section J.
2. All other terms conditions and conditions remains the same.

LIST OF ATTACHMENTS

DOCUMENT	PGS	DATE	TITLE
EXHIBIT A	18	02 MAR 2016	NOSB EXHIBIT A
ATTACHMENT 1	59	02 MAR 2016	NOSB PERFORMANCE WORK STATEMENT (PWS)

CONTRACT DATA REQUIREMENTS LIST (CDRL) (1 Data Item)						Form Approved OMB No. 0704-0188	
<p>The 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 the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>							
A. CONTRACT LINE ITEM NO. See blk 16		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____			
D. SYSTEM/ITEM NetOps and Infrastructure Solutions			E. CONTRACT/PR NO. FA8732-14-D-0020		F. CONTRACTOR Stg, Inc		
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Delivery/Task Order Status Report				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE Section J, Atch 1, PWS Para 5.0		6. REQUIRING OFFICE NETCENTS - 2 Program Office		
7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED	10. FREQUENCY See blk 16	12. DATE OF FIRST SUBMISSION See blk 16	14. DISTRIBUTION			
8. APP CODE See blk 16	B	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See blk 16	a. ADDRESSEE		b. COPIES	
16. REMARKS Block A: Applicable to CLINs 0040, 1040, 2040, 3040, 3400, 4040, and 4400 Block 8: The Government has (10) business days to review for correct content and format. If correction is warranted, the contractor has (5) business days after notice to correct deficiencies and resubmit. Criteria for approval shall be correct content and format. Block 10: The following information shall be provided once per month covering the period of the previous month. The information shall be delivered to the government by the 10th of each month following the reporting month to the destinations indicated in Block 14. If the 10th falls on a weekend or holiday, the information is due NLT the next business day. Block 12: Following the first month after award. Block 13: Monthly thereafter. Block 14: To be sent via e-mail to the AFLCMC/HICI Financials organization mailbox at hicifinance@us.af.mil and NETCENTS-2 Netops and Infrastructure Solutions organization mailbox at ESC.HIJI.NetOps@us.af.mil .				See blk 16		Draft	Final
						2	
				15. TOTAL →			
G. PREPARED BY Mr. Johnnie Mize			H. DATE 23 Sep 15	I. APPROVED BY Maj Benjamin Warren			J. DATE 23 Sep 15

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

**NETCENTS-2 NETOPS -SMALL BUSINESS
DELIVERY/TASK ORDER STATUS REPORT (DOSR) Instructions**

1. Overall Instructions.
 - a. All NETCENTS-2 prime contract holders are to provide delivery order status report information every month covering the period from the first through the last calendar day of the previous month.
 - b. This data shall be sent, by the 10th of the reporting month (if the 10th falls on a weekend or holiday, the information is due NLT the next business day), via e-mail, to the two organizational email boxes:
 - i. hicifinance@us.af.mil
 - ii. ESC.HIJ.NetOps@us.af.mil
 - iii. Data shall be delivered as a Microsoft Excel Spreadsheet.
 - c. If there is no DOSR data to report, an email to the above email boxes (and following the Subject line instructions set out below), may be sent in lieu of a blank spreadsheet, stating that you have no data to report for that reporting period.
2. Concept of Operations.
 - a. General Overall Guidelines:
 - i. Report the award of a task order by awarded Contract Line Item Number (CLIN)/Sub-Contract Line Item Number (SLIN). Every task order received by the contractor must be reported once, at a minimum.
 - ii. Report any modifications to the delivery/task order that adds or de-obligates funds (by CLIN/SLIN). Administrative modifications do not need to be reported.
 - iii. Report any invoice or DFAS payment actions along with the corresponding CLINs. You can keep the order on subsequent DOSRs while waiting for shipping/payment actions if you wish to help keep track of the status of orders.
 - iv. Report the completion of a task order by using the correct Order Status Indicator code, as defined in the CDRL template. Once an order that has been completely delivered, invoiced and paid, it can be removed from future DOSR submissions.
 - b. Orders will be reported using the effective date of the task.
 - c. Period of Performance (PoP) dates should reflect the delivery dates as specified in the delivery/task order or the standard delivery times specified in the contract. Warranty CLIN items should reflect the time frame specified in the task order.
 - d. Orders may include multiple items. Each item will be a row in the spreadsheet with the order information duplicated for all items in the same order.
 - e. The CLIN information should reflect the proper CLIN for the Service, ODC or Travel ordered regardless of whether the task order itself is correct.
 - f. Do not put comments in fields designed for currency or dates, etc. Use the optional Comments field at the end for anything information you wish to convey to the Government.
 - g. The attached DOSR template defines how to setup the DOSR spreadsheet deliverable. The spreadsheet should be a true row/column format. The DOSR is uploaded into a government DOSR database so it is important that column names, order and formats be the same as shown in the column layout and description of the DOSR format in the template. A spreadsheet file based on the template is available upon request for emailing.
 - h. All order information should be completed for each item ordered. For columns that don't apply or information is missing, leave the columns blank, unless the item description indicates otherwise.

- i. If there are product purchases from NETCENTS-2 Products contracts (usually ODC CLIN 0060), the NETCENTS Contractor-to-Contractor Product Purchases (NCCPP) fields must be filled out. See the DOSR Template for instructions.
3. File Naming and Subject Line Instructions
 - a. File Name Format: File names of the A001 deliverable needs to be standardized to help distinguish the various DOSR reports from the various vendors. The naming convention is as follows:
 - i. Contract Number, A001, Vendor Name, Month/Year Report
 - ii. **[Example: FA873214Dxxxx, A001, XYZ Co., July2015 Report**
 - b. Copies of the DOSR will be sent to the organizational email boxes mentioned above in paragraph 1. The Subject Line format of the email is as follows:
 - i. Contract Number, A001, Vendor Name, Month and Year Report
 - ii. **[Example: FA873214Dxxxx A001, Xyz Co, August 2015 Report]**

**NETCENTS-2 NETOPS and INFRASTRUCTURE SOLUTIONS SMALL BUSINESS
DELIVERY/TASK ORDER STATUS REPORT (DOSR)**

	Data Element	Description	Excel Column Format Type	Length
A	Contract	The number assigned to the contract by the NETCENTS-2 Procuring Contracting Officer without any dashes. Example: FA877111D1000. Required.	General/Text	13
B	Task Order Number	Government Task Order number. Unless the order is a GSA or other type of order, the task order number is usually a four (4) character code assigned by the issuing agency. Required	General/Text	4-25
C	Task Order Modification Number	Denotes the basic order and additional modifications to that order thereafter. Basic orders are always "00". Required for all orders.	General/Text	2
D	Date Order Accepted	The effective date on the order. Required	Short Date	MM/DD/YYYY
E	Order Total Amount	The value of the order. In the event of a modification, the value entered shall be the amount of increase or decrease of the basic order amount (This is not a cumulative of the contract value...only the mod amount). Required.	Accounting/Currency	25.2
F	RFQ Number	Enter the AFWay Request for Quote (RFQ) or, in the absence of an AFWAY RFQ number, provide the Request for Proposal number assigned by the issuing contracting officer. AFWay number format is #####. Do not put "RFQ" or "RFQ" in the number. Example for a non-AFWay RFQ is FA8771-12-R-1012 as assigned by the issuing Government contracting officer. Required	General/Text	25
G	RFQ Submitted	Enter AFWAY Request for Quote "date created", or in the absence of an AFWay RFQ, provide the date the Request for Proposal was received from the issuing contracting officer. Required	Short Date	MM/DD/YYYY
H	Order Status Indicator	All orders MUST be reported from initial receipt by vendor to final invoice/voucher. A = Active Order. X = Cancelled, Order Number will not be reused E = Error in Delivery Order F = Final Payment Received from Government for all invoices/vouchers M = Pending Modification C = Delivery Order has been fully closed out NOTE: for X and E status, a brief reason should be included in Comments section Required	General/Text	1
I	Period of Performance (PoP) Start	Enter date Performance starts. When option periods are involved, there should be a modification number reported separately. The performance start for that option(s) should be reported within the row reflecting the associated modification. Required	Short Date	MM/DD/YYYY

**NETCENTS-2 NETOPS and INFRASTRUCTURE SOLUTIONS SMALL BUSINESS
DELIVERY/TASK ORDER STATUS REPORT (DOSR)**

J	Period of Performance (PoP) End	Enter date Performance ends. When option periods are involved, there should be a modification number reported separately. The performance end for that option(s) should be reported within the row reflecting the associated modification. Required	Short Date	MM/DD/YYYY
K	Issued By DODAAC	DODACC of issuing organization. Required.	General/Text	6
L	Issued by Agency or MAJCOM	The Agency or MAJCOM for that issued the task order. Required.	General/Text	50
M	Issued By Organization	Enter the Organizational name that issued the delivery order. Required.	General/Text	50
N	Issued By Name	Enter Name of the Governmental Contracting Officer that issued the delivery order. Required	General/Text	50
O	Issued By Email	Enter the e-mail of the Governmental Contracting Officer that issued the delivery order. Required.	General/Text	50
P	Mark for Organization	Enter the organization for whom the product/service is intended. Required.	General/Text	50
Q	CLIN	Enter the Contract Line Item Number. Each CLIN number goes on a separate line. Required	General/Text	6
R	SLIN	If applicable, enter the Contract sub-line Item Number with the associated CLIN above. Otherwise, leave blank. Required	General/Text	6
S	Contract Category Code	These codes are associated with the CLINs being reported. CO = Cost; CF = Cost Plus Fixed Fee; CA = Cost Plus Award Fee; CI = Cost Plus Incentive Fee FP = Firm Fixed Price; FA = Fixed Price Award Fee; FI = Fixed Price Incentive Fee; LH = Labor Hour Required	General/Text	2
T	Service Description	Enter the description for the solution(s) being provided. Required	General/Text	255
U	Quantity Ordered	Enter the quantity ordered for each line item. Required	Number	6
V	Unit of Issue	Enter the Unit of Issue (e.g. ea = each, bx = box, ft = foot, lt = lot). Required	General/Text	2
W	Unit Price	Enter the cost per unit of issue. Required	Accounting/Currency	25.2
X	Extended Price	Enter the extended price for the line item (calculated by multiplying Unit Price X Quantity Ordered). Required	Accounting/Currency	25.2
Y	NCCPP	NETCENTS Contractor to Contractor Products Purchase. Used for those orders that contain product purchases from the NETCENTS 2 products vendor contracts. This would typically be under the CLIN 0060 line item in the task order. Yes or No (Y/N) Required	General/Text	1
Z	Product Vendor Contract Number	Indicate the NETCENTS 2 product vendor contract number and task order purchasing the product (e.g., FA873214D0003-TJ01). Required if the NCCPP column is "Yes", otherwise leave blank.	AlphaNumeric	16

**NETCENTS-2 NETOPS and INFRASTRUCTURE SOLUTIONS SMALL BUSINESS DELIVERY/TASK
ORDER STATUS REPORT (DOSR)**

AA	Total Price of Products	Total price of NCCPP Product(s)/ODC ordered. Required if the NCCPP column is "Yes"	Accounting/Currency	25.2
AB	Invoice Number to DFAS	Enter the Invoice Number that is submitted to the DFAS. Required as they are submitted to DFAS for payment.	General/Text	25
AC	Date Invoiced to DFAS	Enter the date the invoice was submitted to DFAS for payment. Required as they are submitted to DFAS for payment.	Short Date	MM/DD/YYYY
AD	CLIN Invoice Amount	Enter the amount of the Invoice broken out by CLIN. Required for each CLIN on invoice or voucher.	Accounting/Currency	25.2
AE	DFAS Voucher Number	Enter the voucher number for which DFAS payment to vendor was made. This item should be associated with matching invoice number. Required as payments are received from DFAS.	General/Text	25
AF	DFAS Voucher Date	Enter the date of the voucher DFAS used for payment to vendor. This item should be associated with matching invoice number. Required.	Short Date	MM/DD/YYYY
AG	DFAS Payment Amount	Enter DFAS payment amount made to the vendor. This item should be associated with matching invoice number. Required as payments are received from DFAS.	Accounting/Currency	25.2
AH	Comments	Any comments by the vendor. Optional.	General/Text	255
		NOTE: A spreadsheet is available to vendors to use that are already setup according to this template. Please contact the program manager for a copy or send an email request to: hicifinance@us.af.mil .		

FREQUENCY: QUARTERLY

CDRL A002 Atch 1, Part 1 of 2

NETCENTS-2 NetOps OBLIGATION SUMMARY FYXX

Contract #: FA8732-1X-D-00XX

Contractor: Company Name

Date: 1/1/2014

CDRL: A002 Part 1 of 2

FREQUENCY: QUARTERLY

Active and Completed Orders Information	TOTALS
*Grand Total Obligated for FYXX	\$0.00
*Grand Total Obligated by CLIN for FYXX	\$2,500.00
CLIN 0010 Firm-Fixed-Price Solutions (FFP)	\$0.00
CLIN 0020 Cost Solutions (Cost)	\$0.00
CLIN 0030 Labor Hours (LH)	\$0.00
CLIN 0040 Data (NSP)	\$0.00
CLIN 0050 Warranty (FFP)	\$0.00
CLIN 0060 ODC (Cost)	\$0.00
CLIN 0070 Travel (Cost)	\$0.00
CLIN 0080 NETCENTS-2 Post Award Conference (FFP)	\$2,500.00
*Grand Total Amount Invoiced for FYXX	\$0.00
*Grand Total Amount DFAS Paid for FYXX	\$0.00
*Grand Total Amount CLIN 0060 and 0070 Included in DFAS Payments for FYXX	\$0.00
*Grand Total Award Amount including unexercised options since NetOps SB contract was awarded.	\$0.00

FREQUENCY: QUARTERLY									
CDRL A002 Atch 1, Part 2 of 2									
NETCENTS-2 NetOps Obligation Summary FYXX									
Contract #: FAB732-1X-D-00XX									
Contractor: Company Name									
Date: 1/1/2014									
CDRL: A002 Part 2 of 2									
Month/FY/Date	RFP/RFQ Number Received	RFP/RFQ Received (Enter 1 for each RFP/RFQ Received)	RFP/RFQ Proposed (If proposed enter 1; if not enter 0)	RFP/RFQ Awarded (If awarded enter 1; if not enter 0)	Task Order Number (Awarded)	Total \$ OBLIGATED (Funded) for New Award	Total \$ OBLIGATED (Funded) for FYXX (Includes New Award plus Subsequent Modifications)	Total \$ AWARDED for New Award (Inclusive of Unexercised Options)	For each RFP/RFQ where you decided not to bid (0 entered in column D), give a reason.
OCT FYXX									
21-Oct-2014	123456	1	1	0					
21-Oct-2014	123456	1	1	1	RJXX	\$5,465.00	\$51,651.00	\$651,651.00	
21-Oct-2014	123456	1	0	0					OCI issues due to ...
NOV FYXX									
13-Nov-2014	123456	1	1	0					
14-Nov-2014	123456	1	1	1	RSXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Nov-2014	123456	1	0	0					Too short of a turnaround time (# days) to be able to submit a competitive bid.
DEC FYXX									
13-Dec-2014	123456	1	1	0					
14-Dec-2014	123456	1	1	1	6KXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Dec-2014	123456	1	0	0					Reason
JAN FYXX									
13-Jan-2015	123456	1	1	0					
14-Jan-2015	123456	1	1	1	RJXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Jan-2015	123456	1	0	0					Reason
FEB FYXX									
13-Feb-2015	123456	1	1	0					
14-Feb-2015	123456	1	1	1	RSXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Feb-2015	123456	1	0	0					Reason
MAR FYXX									
13-Mar-2015	123456	1	1	0					
13-Mar-2015	123456	1	1	1	6KXX	\$5,465.00	\$51,651.00	\$651,651.00	
13-Mar-2015	123456	1	0	0					Reason
APR FYXX									
13-Apr-2015	123456	1	1	0					
14-Apr-2015	123456	1	1	1	RJXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Apr-2015	123456	1	0	0					Reason
MAY FYXX									
13-May-2015	123456	1	1	0					
14-May-2015	123456	1	1	1	RSXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-May-2015	123456	1	0	0					Reason
JUN FYXX									
13-Jun-2015	123456	1	1	0					
14-Jun-2015	123456	1	1	1	6KXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Jun-2015	123456	1	0	0					Reason
JUL FYXX									
13-Jul-2015	123456	1	1	0					
14-Jul-2015	123456	1	1	1	RJXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Jul-2015	123456	1	0	0					Reason
AUG FYXX									
13-Aug-2015	123456	1	1	0					
14-Aug-2015	123456	1	1	1	RSXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Aug-2015	123456	1	0	0					Reason
SEP FYXX									
13-Sep-2015	123456	1	1	0					
14-Sep-2015	123456	1	1	1	6KXX	\$5,465.00	\$51,651.00	\$651,651.00	
15-Sep-2015	123456	1	0	0					Reason
TOTALS		36	24	12	0	\$65,580.00	\$619,812.00	\$7,819,812.00	

Column B Where you were asked to actually submit a proposal. Insert/delete rows as required. Inclusive of both competitive & non-competitive.
Column C Inclusive of both competitive & non-competitive.
Column D Inclusive of both competitive & non-competitive.
Column E Inclusive of both competitive & non-competitive.

CONTRACT DATA REQUIREMENTS LIST (CDRL) (1 Data Item)						Form Approved OMB No. 0704-0188					
The 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 the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO. See blk 16		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____							
D. SYSTEM/ITEM NetOps & Infrastructure Solutions SB			E. CONTRACT/PR NO. FA8732-14-D-0020			F. CONTRACTOR American Systems Corporation					
1. DATA ITEM NO. A003		2. TITLE OF DATA ITEM Annual Execution Review to AFPEO/CM				3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE Section J, Atch 1, PWS Para 5.0			6. REQUIRING OFFICE NETCENTS - 2 Program Office		17. PRICE GROUP 18. ESTIMATED TOTAL PRICE		
7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED B		10. FREQUENCY Annually	12. DATE OF FIRST SUBMISSION See blk 16		14. DISTRIBUTION					
8. APP CODE See blk 16			11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See blk 16		a. ADDRESSEE		b. COPIES			
16. REMARKS Block A: Applicable to CLINs 0040, 1040, 2040, 3040, 3400, 4040, 4400 Block 8: The Government has (10) business days to review for correct content and format. If correction is warranted, the contractor has (5) business days after notice to correct deficiencies and resubmit. Criteria for approval shall be correct content and format. Attachment 1 to this CDRL contains the required template (electronic version will be provided by the Contracting Officer) for creating the report using Microsoft Excel 2010 or 2007. Block 10: The following information shall be provided annually covering the period Oct through Sep. The information shall be delivered to the Government by the 10th of the month following the reporting period to the destinations indicated in Block 14. If the 10th falls on a weekend or holiday, the information is due NLT the next business day. Block 12: 10th day of October after contract award. Block 13: Annually thereafter. Block 14: Electronic copies in Microsoft Excel 2010 or 2007 format to be sent via e-mail to the PM of Record's mailbox and to the NETCENTS-2 Netops and Infrastructure Solutions organization mailbox at ESC.HIJI.NetOps@us.af.mil . Additional Remarks: Contractor shall return the completed report using the Government provided templates in Microsoft Excel 2010 or 2007. File Name Format: File name of the A003 deliverable needs to be standardized to help distinguish the various reports from the various vendors. The naming convention shall be as follows: Contract Number, A003, Vendor Name, (Reporting Month and Year [Example: FA8732-1X-D-00XX A003 XYZ October 2015]) E-Mail Subject Line Format: Copies of the report shall be sent to the e-mail organization box(s) mentioned above. The naming convention needs to be as follows: Contract Number, A003, Vendor Name, Reporting Month and Year [Example: FA8732-1X-D-00XX A003 XYZ October 2015]						See blk 16		Draft	Final	Reg	Repro
								2			
						15. TOTAL →					
G. PREPARED BY Mr. Johnnie Mize			H. DATE 23 Sep 15		I. APPROVED BY Major Benjamin Warren			J. DATE 23 Sep 15			

	A	B	C	D	E	F	G	H	I	J	K	L	M
2	NETCENTS-2 NetOps SB Task Order Competition FYXX												
3													
4	Contract #:	FA8732-1X-D-1XXX											
5	Contractor:	Company Name											
6	Date:	19-Oct-2015											
7	CDRL:	A003 Part 1 of 4											
8													
9													

	ENTER Reporting FY	Tasks Order Competition						Workload Share			TOs Exceeding Initial Value by ≥10%	FTE's FY14	
		RFPs Received	Proposed	Awarded	Competed Awards	RFP Bid Rate	Competition Rate	Overall Success Rate	Award Value Inclusive of Options	TOs Won			Dollars Awarded
10													
11													
12	Company Name	5	3	2	2	60.00%	100%	67%	\$11,000,000	0%	0.00%	2	8.2

13

14 Vendor to complete columns B, C, D, E, I, L, and M. Current data shown is for example only and not representative of any specific vendor. PMO tracks this information; purpose is to cross-check and capture number of FTE's and associated rationale for exceeding 10%.

15

16 For any task orders exceeding the 10% in column L, please complete the worksheet titled "TOs Exceeding 10%" of this workbook. FTE's should be based on 1920 manhours/year for orders that were either new, on-going, or completed during FY being reported.

17

- 18 Column "B" is number of RFP's received during the FY. Include only RFPs where the contractor was actually asked to submit a bid/proposal (inclusive of both competitive & non-competitive). Should align with data reported in CDRL A002.
- 19 Column "C" is number of task orders received during the FY for which the contractor submitted a proposal (inclusive of both competitive & non-competitive). Should align with data reported in CDRL A002.
- 20 Column "D" is the number of task orders received during the FY that the contractor was awarded (includes both competitive and non-competitive awards). Should align with data reported in CDRL A002.
- 21 Column "E" is the number of task orders competed during the FY (excluding non-competitive) awards - includes only the number of competitive task orders the contractor won (do not include non-competitive, i.e., set aside for sole-source).
- 22 Column "I" should be based on reporting FY new task order(s) AWARD value inclusive of all options - this is not obligated value
- 23 Column "L" is the number of task orders during the reporting FY that had at least 10% or more cost increase above the original task order value inclusive of all options - not obligated value (remember to provide rationale for the increase using the format provided as part of this CDRL)
- 24 Column "M" is the number of FTE's during the FY being reported - as stated above, should be based on 1920 manhours/year, and for orders that were either new, on-going, or completed during the FY
- 25

	A	B	C	D	E	F	G	H	I	J	K	L	M
2	NETCENTS-2 NetOps SB Total Contract Competition												
3													
4	Contract #:	FA8732-1X-D-00XX											
5	Contractor:	Company Name											
6	Date:	10-Oct-2015											
7	CDRL:	A003 Part 2 of 4											
8													
9	Total Contract	Task Order Competition							Workload Share			TOs Exceeding Initial Value by ≥10%	
10		RFPs Received	Proposed	Awarded	Competed Awards	Bid Rate	Competition Rate	Overall Success Rate	Total Award Value Inclusive of Options	TOs Won	Dollars Awarded		
11													
12	Company Name	11	6	3	3	54.55%	100%	50%	\$15,000,000	0%	0.00%	1	
13													
14													
15	Vendors to complete columns B, C, D, E, I, and L. Current data is sample data from template only and not representative of any specific vendor. Purpose is to cross-check PMO and vendor metrics.												
16													
17	Column "B" is cumulative number of RFP's received to date since the inception of the contract. Include only RFPs where you were actually asked to submit a bid/proposal (inclusive of both competitive & non-competitive). Should align with data reported in CDRL A002.												
18	Column "C" is cumulative number of task orders for which the contractor submitted a proposal (inclusive of both competitive & non-competitive) since inception of the contract. Should align with data reported in CDRL A002.												
19	Column "D" is the cumulative number of task orders the contractor was awarded (includes both competitive and non-competitive awards) since inception of the contract. Should align with data reported in CDRL A002.												
20	Column "E" is the cumulative number of competed (excluding non-competitive) awards - includes only the number of competitive task orders the contractor won (do not include non-competitive, i.e., set aside for sole-source) since inception of the contract												
21	Column "I" should be based on cumulative AWARD value of all task orders to date, inclusive of all exercised and unexercised options since inception of the contract - this is not obligated value												
22	Column "L" is the cumulative number of task orders since inception of the contract that had at least 10% or more cost increase above the original task order AWARD value inclusive of all options - not obligated value												
23													

	A	B	C	D	E	F	G	H
2	NETCENTS-2 NetOps SB Task Orders Exceeding 10% FYXX							
3								
4	Contract #:	FA8732-1X-D-00XX						
5	Contractor:	Company Name						
6	Date:	10-Oct-2015						
7	CDRL:	A003 Part 3 of 4						
8								
9	NetOps Small Business	Task Order Number	Original Award Value Inclusive of Unexercised Options	New Award Value Inclusive of Unexercised Options	Amount Increased	Rationale for the 10% or greater increase		
10	Company Name	0002	\$1,000,000.00	\$2,500,000.00	\$1,500,000.00	Updates PWS, which added additional work to the task order.		
11	Company Name	0003	\$3,000,000.00	\$4,500,000.00	\$1,500,000.00	Updates PWS, which added additional work to the task order.		
12								
13	All information should be for reporting FY.							
14								

	A	B	C	D	E
1	FREQUENCY: ANNUALLY				
2	NETCENTS-2 NetOps SB Task Order CPAR Summary FYXX				
3					
4	Contract #:	FA8732-1X-D-00XX			
5	Contractor:	Company Name			
6	Date:	10-Oct-2015			
7	CDRL:	A003 Part 4 of 4			
8					
9	CPARS Enter Current FY	CONTRACTOR NAME			
10		0	0	0	0
11		0	0	0	0
12		0	0	0	0
13		2	3	4	5
14	Quality of Service				
15	Schedule				
16	Cost Control				
17	Business Relations				
18	Mgt of Key Personnel				
19	SB Utilization*	NA	NA	NA	NA
20					
21	E = Exceptional				
22	V = Very Good				
23	S = Satisfactory				
24	M = Marginal				
25	U = Unsatisfactory				
26					
27	Numbers below "Contractor Name" represent Task Order numbers for which official CPAR ratings have been accomplished at the Task Order level. If additional Task Order numbers need to be added, insert additional columns as necessary using the same format. Colors will automatically fill once you enter the applicable letter for the respective evaluated areas.				
28					
29	* SB Goals are at the IDIQ level.				

CONTRACT DATA REQUIREMENTS LIST (CDRL) (1 Data Item)										Form Approved OMB No. 0704-0188			
The 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 the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.													
A. CONTRACT LINE ITEM NO. See blk 16			B. EXHIBIT A			C. CATEGORY: TDP _____ TM _____ OTHER _____							
D. SYSTEM/ITEM NetOps & Infrastructure Solutions SB				E. CONTRACT/PR NO. FA8732-14-D-0020				F. CONTRACTOR American Systems Corporation					
1. DATA ITEM NO. A004		2. TITLE OF DATA ITEM Contractor Performance Report					3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.)					5. CONTRACT REFERENCE Section J, Atch 1, PWS Para 5.0			6. REQUIRING OFFICE NETCENTS - 2 Program Office					
7. DD 250 REQ N/A		9. DIST STATEMENT REQUIRED		10. FREQUENCY Quarterly		12. DATE OF FIRST SUBMISSION See blk 16		14. DISTRIBUTION					
8. APP CODE See blk 16		B		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION See blk 16		a. ADDRESSEE		b. COPIES			
16. REMARKS Block A: Applicable to CLINs 0040, 1040, 2040, 3040, 3400, 4040, 4400 Block 8: The Government has (10) business days to review for correct content and format. If correction is warranted, the contractor has (5) business days after notice to correct deficiencies and resubmit. Criteria for approval shall be correct content and format. The information reported shall be based on current FY for quarterly and cumulative FY metrics. Attachment 1 to this CDRL contains the required template (electronic version will be provided by the Contracting Officer) for creating the report using Microsoft Excel 2010 or 2007. Block 10: The following information shall be provided once per quarter covering the period of the previous quarter. The information shall be delivered to the government by the 10th of the month following the reporting period to the destinations indicated in Block 14. If the 10th falls on a weekend or holiday, the information is due NLT the next business day. Block 12: First quarter following date of award. Block 13: Quarterly thereafter. For purposes of this CDRL, Quarters are defined as: 1st Qtr is Oct, Nov, Dec; 2nd Qtr is Jan, Feb, Mar; 3rd Qtr is Apr, May, Jun; 4th Qtr is Jul, Aug, Sep. Block 14: Electronic copies to be sent via e-mail to the PM of Record and to the NETCENTS-2 Netops and Infrastructure Solutions organization mailbox at ESC.HIJI.NetOps@us.af.mil . Additional Remarks: Contractor shall return the completed report using the Government provided templates in Microsoft Excel 2010 or 2007. File Name Format: File name of the A004 deliverable needs to be standardized to help distinguish the various reports from the various vendors. The naming convention shall be as follows: Contract Number, A004, Vendor Name, Reporting Month and Year [Example: FA8732-1X-D-00XX A004 XYZ October 2014] E-Mail Subject Line Format: Copies of the report shall be sent to the e-mail organization box(s) mentioned above. The naming convention needs to be as follows: Contract Number, A004, Vendor Name, Reporting Month and Year [Example: FA8732-1X-D-00XX A004 XYZ October 2014]								See blk 16		Draft		Final	
								Reg		Repro			
15. TOTAL →								2					
G. PREPARED BY Mr. Johnnie Mize				H. DATE 23 Sep 15		I. APPROVED BY Maj Benjamin Warren				J. DATE 23 Sep 15			

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

FREQUENCY: QUARTERLY

NETCENTS-2 NETOPS and INFRASTRUCTURE SOLUTIONS SMALL BUSINESS CONTRACTOR PERFORMANCE REPORT (CPR)

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. Name Company Name	a. Name NetOps Small Business	a. Name NETCENTS-2	a. From (YYMMDD) Date
b. Location (Address and ZIP Code) Address and ZIP Code	b. Number FA8732-1X-D-00XX	b. Phase N/A	b. To (YYMMDD) Date

5. PERFORMANCE DATA				Current Period (Qrtly)			Cumulative to Date (FY)			Total Contract
Desired Outcome	Performance Objective	Target	Tolerance	# of Incidents Where Tolerance Met (Example)	Total # of Incidents (Example)	Percentage (Example)	# of Incidents Where Tolerance Met (Example)	Total # of Incidents (Example)	Percentage (Example)	Percentage (Example)
Ensure NetOps and Infrastructure Solutions provided by the contractor are fulfilled within the timeframe identified by the task order	Task orders are completed on time or ahead of schedule	Task orders are completed on schedule as agreed upon with Government customer	98% of the time	95	100	95%	198	200	99%	
Ensure compliance with NetOps and Infrastructure Solutions Customer Support requirements	Customer Support Availability for NetOps and Infrastructure Solutions provided under contract	24x7 Live Customer Support assistance is provided if required by task order	98% of the time	49	50	98%	94	100	94%	
Ensure completed task orders are invoiced and submitted to the Government in a timely manner	Invoices are received by the Government from the contractor within 30 calendar days of completion of task order	Documentation submitted IAW CDRL A001 verifies invoices were submitted on time	99% of the time							
Ensure delivery of all CDRLs by the contractor within the timeframe identified	Completed on time or ahead of schedule	IDIQ-level CDRLs are delivered as identified	98% of the time							
Ensure adherence to quality requirements of all CDRLs by the contractor	Quality CDRLs (conforming to design, specification or requirements) are delivered according to performance parameters	Quality CDRLs are delivered as identified	98% of the time							
6. BUSINESS RELATIONS (competitiveness, participation)										
a) Task Order Competition: Demonstrates vendor's responsiveness to Request for Proposals. Columns E, F, H, and I are available for edit. Column E=RFPs received from CDRL A002; Column F=RFPs proposed from CDRL A002; Column G=% bid rate; Column H=Cumulative FY RFPs Received from CDRL A002; Column I=Cumulative FY RFPs proposed from CDRL A002; Column J=Cumulative FY % bid rate. Reason for no-bids must be input into the AFWay system and must be included in CDRL A002.										
				10	5	50%	40	35	88%	
b) Responsiveness to PCO and PM										
1. Program Management Reviews twice a year are mandatory. Columns E, F, H, and I are available for edit. Column E=PMRs held; Column F=PMRs attended; Column H=Cumulative FY PMRs held; Column I=Cumulative FY PMRs attended; Column J=Cumulative FY % PMR attendance rate.										
				1	1		2	2	100%	
2. Monthly Telecons. Columns E, F, H, and I are available for edit. No telecons during the month a PMR is held. If a monthly telecon is not held, reduce the total number reported held. Column E=Monthly telecons held; Column F=Monthly telecons attended; Column G=Monthly % attendance rate; Column H=Cumulative FY telecons held; Column I=Cumulative FY telecons attended; Column J=Cumulative FY % attendance rate.										
				3	2	67%	10	9	90%	

Updated as of 2 March 2016

**NETCENTS-2 SOLUTIONS
Network Operations (NetOps) and Infrastructure
Small Business Performance Work Statement (PWS)**

NETCENTS-2
PERFORMANCE WORK STATEMENT (PWS)
NETWORK OPERATIONS (NetOps) AND INFRASTRUCTURE SOLUTIONS

1. NETCENTS-2 INTRODUCTION

1.1 NETCENTS-2 Goal

The goal of the overall NETCENTS-2 program is to support missions that require voice, data, and video communications, information services, solutions, and products to deliver the right information, in the right format, to the right place, at the right time – efficient in peace, effective in war, and ensuring success across the spectrum of operations. NETCENTS-2 supports the IT lifecycle to include legacy operational and sustainment activities, re-engineering of legacy capabilities into target architectures and environments, and future service-oriented capabilities. NETCENTS-2 is an enabler to meet Air Force IT transformation goals to allow for innovation with the ability to more rapidly provision and field capabilities. NETCENTS-2 enables the ability to segregate aspects of full system lifecycles into more granular components that can be composed into integrated capabilities for the warfighter. Furthermore, NETCENTS-2 enables different solution providers to participate over the course of the program lifecycle. For example, the solution providers for development may be different from those that accomplish deployment, operation, and support.

1.2 NETCENTS-2 Scope

The NETCENTS-2 ID/IQ contracts will provide a wide range of IT Network-centric and Telephony products, services and solutions covering the full spectrum of netcentric operations and missions, including existing legacy infrastructure, networks, systems and operations as well as emerging requirements based on the AF Chief Information Officer's (CIO's) SOA construct. The contracts will provide Network-Centric Information Technology, Networking, and Security, Voice, Video and Data Communications, system solutions and services to satisfy the Combat Support (CS), Command and Control (C2), and Intelligence Reconnaissance and Surveillance (ISR) Air Force and Department of Defense (DoD) requirements worldwide. These contracts will provide users the capabilities to find, access, collaborate, fuse, display, manage, and store information on the Department of Defense (DoD) Information Network (DoDIN). AF sites may include commercial-off-the-shelf (COTS) National Security Systems (NSS), intelligence data handling equipment, C2 equipment, Local Area Networks (LAN), Wide Area Networks (WAN), secure and non-secure video, voice and data systems, and/or mission equipment. The equipment processes information of varying security classifications and may include sites that are Sensitive Compartmented Information Facilities (SCIFs).

All effort supported under this contract shall be provided in accordance with Department of Defense, United States Air Force, or DOD Intelligence Information Systems (DoDIIS), and National Security Agency standards as applicable to the task order. Efforts under this contract will support industry best practices when not proscribed by aforementioned standards.

1.3 NETCENTS-2 Acquisition Strategy

NETCENTS-2 consists of various related IDIQ contracts in an effort to meet the above-stated goals. There are functions where performance on one task order may limit, because of dependencies or type of activity (e.g., support to the Government), work on other task orders. Total solutions will potentially be composed of combinations of subsets of the contract. NETCENTS-2 comprises the following suite of contracts:

1. Netcentric Products – COTS products to support the network
2. NetOps and Infrastructure Solutions – Solutions to support network operations, core enterprise services, and infrastructure development and operations (includes legacy Telephony)
3. Application Services - Services to sustain, migrate, integrate, re-engineer, and expose Mission Applications for secure access by authorized users, by establishing web and netcentric services,

to include help desk, testing and operational support, in legacy and netcentric enterprise environments

4. Enterprise Integration and Service Management (A&AS) - Enterprise level integration/portfolio management activities
5. IT Professional Support and Engineering Services Advisory and Assistance Services (A&AS)

The NETCENTS-2 contracts enable the delivery of products, services and solutions that adhere to the AF Enterprise Architecture (AF EA) and complement each other as depicted in Figure 1.

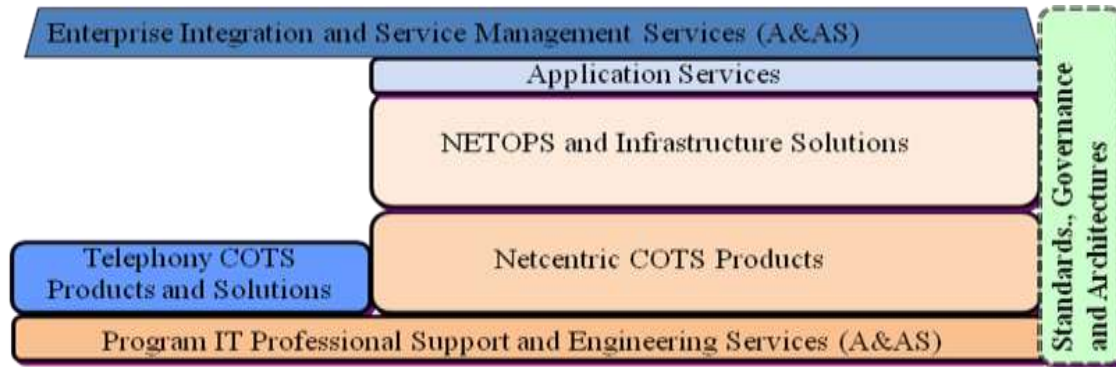


Figure 1. Relationship of Contract Areas

1.4 Air Force IT Challenge

Currently, the Air Force has multiple, disparate and sub-optimized collections of computing and communications resources. Each set of resources is managed independently, resulting in costly and inefficient redundancy. Different networks, multiple computing centers, and stove-pipe systems all make it difficult for end users to access consistent and relevant information in a timely manner, allocate resources to respond to demand, and consequently make timely and informed decisions.

1.5 NETCENTS-2 Solution

NETCENTS-2 is a vehicle enabling the IT lifecycle to include legacy operational and sustainment activities, migration of legacy systems, and future service-oriented capabilities. NETCENTS-2 provides a streamlined, enterprise-supported contract vehicle that enables the consolidation of many existing base-level contracts for Operations and Maintenance (O&M) activities. In addition, NETCENTS-2 supports the re-engineering and modernization of legacy systems through the rapid, incremental delivery of solutions, enabling improved day-to-day operations and warfighting mission execution. NETCENTS-2 provides a contract vehicle for the acquisition of the components, such as infrastructure, services, resources and activities, required to implement service-oriented capabilities.

To support the re-engineering of legacy systems and future service-oriented capabilities, the AF has created a set of information sharing business rules called the Singularly-Managed Infrastructure (SMI) and Enterprise Level Security (ELS) (SMI-ELS). SMI-ELS is not a technical solution or specific product, instead it guides a business model informed by governance and architecture that affects all aspects of a Doctrine, Organization, Training, Materiel, Leadership and education, Personnel and Facilities (DOTMLPF) solution for the effective implementation of a secure Net-Centric Data Strategy (NCDS). SMI-ELS gives form to processes such as architecture and acquisition; technical solutions such as networks, vocabulary-based web services, applications, data repositories, and computing infrastructures; and force transformation, to drive Air Force systems and users into higher degrees of information and knowledge-based operations.

The NETCENTS-2 scope of work directly supports SMI-ELS objectives, as follows:

1. SMI: The Singularly Managed Infrastructure will place AF core service computing and communications resources under a single enterprise-wide management construct. This does not mean consolidating resources into a single physical location for management purposes. Many high-end computing platforms, like those used to run simulations, may have internal management constructs as their resources are not shared across the enterprise. However, any interaction between these localized collections and any other computing resources will fall under the SMI construct. Likewise, not all communications (i.e., Military Strategic Tactical Relay (MILSTAR) satellites) may be individually managed under the SMI concept, but the overall capability delivered by these resources will adhere to SMI concepts. The SMI will operate over existing physical locations, with some adaptation of those physical locations based on business case analyses, to manage all computing resources from the enterprise perspective. Existing data centers, such as the MAJCOM Computing Centers, will be integrated into the SMI and the management of the resources within those Centers will be subject to the SMI processes and procedures.
2. ELS: The Enterprise Level Security will enable authorized users to locate, access, and utilize information from authoritative sources regardless of the location of the data as long as information security guidelines stipulated are met.

NETCENTS-2 also provides the contract vehicle to support the development of vocabulary-based web services, content delivery and presentation services, and new mission applications that operate in netcentric enterprise environments and exploit SOA infrastructures.

This contract provides the services management support required by SMI-ELS. Service Management (SM) ensures that: (1) agreed upon services are delivered when and where they are supposed to be delivered and (2) services operate as agreed upon. Using NETCENTS-2 contract vehicles, portfolio managers implement SM with a focus on risk mitigation and policies that require built-in closed-loop governance mechanisms.

1.6 Governance

The services and solutions delivered under NETCENTS-2 in support of Air Force operations will be subject to the oversight of an Air Force enterprise level governance structure and set of processes. The governance processes will employ systems engineering fundamentals, ensure adherence to the Air Force Enterprise Architecture, and be implemented along with the normal reviews in the acquisition process. The governance structure has three tiers, strategic, operational, and tactical, where policy will be set at the strategic level, reviews for compliance and technical rigor will be done at the operational level, and contract mechanics will be handled at the tactical level. Further explanation of the governance structure is explained in the User's Guide.

2. CONTRACT PURPOSE

The purpose of this contract is to provide Network Operations (NetOps), Infrastructure, and Service Oriented Architecture (SOA) implementation and transformation services and solutions to the United States AF (USAF) and Department of Defense (DoD) agencies at locations inside the contiguous United States (CONUS), outside the contiguous United States (OCONUS) and in war zone areas. The services and solutions provided will address the development, acquisition, integration, test, deployment, and sustainment of Air Force (AF) infrastructure and network operations, production, research and development, and Command, Control, Communications, Computers (C4) and, Intelligence, Surveillance, Reconnaissance (ISR) mission capabilities. The proposed solutions shall be in compliance with existing DoD, USAF, and Intelligence Community (IC) standardization and interoperability policies. Technology refreshment and system evolution within this contract will track proven, accepted, and available leading edge technology within industry.

This contract supports the Department of Defense Information Network (DoDIN) architecture, Defense Information Infrastructure (DII), IC Information Sharing environments, and AF and Defense Communications Systems infrastructure for computer and telecommunications network mission areas. Solutions and services provided under this contract will help the DoD and IC achieve information superiority as called for in Joint Vision 2020 and will promote adherence to the Systems Engineering Process (SEP) as specified in the DoD 5000-series.

2.1 Contract Goal

The goal of this contract is to provide a full range of innovative, reasonably priced, world-class information technology services and solutions to support the full spectrum of netcentric operations and missions. It will help our warfighters be efficient in peace and effective in war while providing them the right information in the right format to the right place at the right time. NETCENTS-2 will support USAF, DoD, and other Federal Agency customers that work in transitory, static, and deployed locations throughout the world. The netcentric services and solutions provided will combine with joint and interagency assets and capabilities from land, sea, air, space, and cyberspace components, as well as coalition and allied capabilities, to create an interoperable force capability.

2.2 Contract Scope

This contract will provide a wide range of services and solutions covering existing legacy infrastructure, networks, systems and operations as well as emerging requirements. and guidance provided by the IC Information sharing Executive (ISE) and AF Chief Information Officer's (CIO) . The contracts will provide Network-Centric Information Technology, Networking, and Security, Voice, Video and Data Communications, system solutions and services to satisfy the Combat Support (CS), Command and Control (C2), and Intelligence Reconnaissance and Surveillance (ISR) Air Force and Department of Defense (DoD) requirements worldwide. This NetOps contract will provide users the capabilities to find, access, collaborate, fuse, display, manage, and store information on the Department of Defense (DoD) Information Network (DoDIN) and IC Information sharing environment as applicable. Other services include, but are not limited to, wireless devices/capabilities, Personal Digital Assistants (PDAs) to include Blackberries and information intensive data applications (e.g. video-teleconferencing, imagery, modeling, simulation, streaming video, web-enabled weapon systems and applications, information management, Everything over IP (EoIP), and Voice over IP (VoIP). This contract will support the transformation of AF global-level command and control and administration of Information Technology (IT) resources from base-level Network Control Centers (NCC), MAJCOM Coordination Centers (MCCC), MAJCOM Network Operations Security Centers (NOSC), and Network Operations Divisions (NOD) and Network Security Divisions (NSD) to regionally consolidated Area Processing Capabilities (APC), Enterprise Service Units (ESU), Integrated NOSCs (I-NOSC) and Enterprise Service Desks (ESD).

Through this contract vehicle, customers can acquire network infrastructure system solutions, operations, and maintenance, as well as systems management, configuration management, and NetOps Core IT services (e.g., e-mail, storage, and directory services). System solutions shall follow disciplined System Engineering Processes and shall include, but not be limited to: establishment of the SOA Singularly Managed Infrastructure with Enterprise Level Security (SMI-ELS), including Metadata Environments (MDEs), Enclaves, Federation and Enterprise Management of the AF Architecture; Network Operations including (DoDIN) Web Content Management, (DoDIN) Enterprise Management (EM) and DoDIN Network Defense (DoDNetD); and Network Infrastructure Messaging and Site Preparation and Installation services. This contract will provide NetOps services and solutions support to establish, operate, and maintain the network and SOA infrastructure required to provide netcentric capabilities and traditional network operations.

2.3 Netcentric Strategies, Standards, and the Use of This Contract by Other Agencies and Departments

Specific standards, guidance, and applicable documents within this contract are written with the intent of accomplishing Air Force netcentric strategies. These strategies will evolve over time and, when

appropriate, the AF will revise and replace standards accordingly. The contractor shall conform to Air Force strategies and visions and adhere to associated standards. Other agencies and departments are encouraged to use this contract for the same purpose and may specify and substitute other standards, guidance, and applicable documents within their task orders that are appropriate to provide solutions tailored to meet their netcentric strategies. AF functional communities may be required by law or other National guidance to meet non-AF standards and guidance; in these cases the mandated standards and guidance will be identified in individual task orders.

The Air Force reserves the right to restrict use of this contract and to disallow DoD and other Federal Agencies from using this contract.

3. REQUIREMENTS

The contractor shall provide a wide range of services and solutions that support existing legacy infrastructure, networks, systems, and operations, as well as evolving the infrastructure, networks, systems and operations to comply with the AF enterprise architecture.

3.1 SMI-ELS Infrastructure Implementation and Operation

3.1.1 Singularly Managed Infrastructure (SMI)

The contractor shall provide services and solutions to realize a SMI that brings together at the middleware layer disparate networks and communications capabilities into a consistent AF enterprise-wide IT capability. The SMI shall support all AF mission requirements, and share data through federation with other infrastructure environments across the DoD, Federal agencies, and Joint and Coalition environments. The contractor shall provide the capabilities for Core Enterprise Services (CES), transport layers, metadata environments, enclaves, Communities of Interest (COIs), and federation that make an SMI possible.

3.1.1.1 Core Enterprise Services (CES)

The contractor shall provide services and solutions that provide infrastructure capabilities to execute and manage content delivery services that deliver information to the warfighter and operational end user. CES will include but not be limited to storage management, messaging, transaction management, workflow management, search and discovery, directory services and service execution through an application server capability for control and management of multiple services. CES will provide monitoring for Quality of Service (QoS), and governance of configuration and contract management to ensure a stable environment. The contractor shall ensure these solutions exploit the DoD CES when and wherever possible, and deliver AF-specific CES as required to augment the DoD CES to fulfill the AF mission.

Notes: Cyber Security (CS) related services, while part of Core Enterprise Services, are listed separately in the Enterprise Level Security section. Transport layer capabilities are covered in the Network Operations section and deliver the physical infrastructure upon which middleware and services operate, including physical plants and network operations capabilities.

3.1.1.2 Enclaves

The contractor shall provide services and solutions to identify a logical partitioning of the network and its information assets into capabilities-based enclaves. In the SMI-ELS Concept Document, enclaves are defined as virtual collections of hardware, software (including services), networks, and users that share common features, such as: authentication, authorization, trust, account directories, and policies. The contractor shall provide services and solutions to enable the establishment of trust relationships and inter-enclave credentialing through which enclaves can interoperate and control the direction and nature of information exchanges, allowing the execution of multi-enclave service threads. The contractor shall provide services and solutions to facilitate migration of legacy enclave environments to enclaves compliant with the SMI-ELS Concept Document.

3.1.1.3 Federation

The contractor shall provide services and solutions that facilitate federation—a set of minimal agreements between enclave layer components which enable interaction between enclaves to take place transparently. The contractor shall provide federation capabilities within single domains and across multiple domains. Where applicable, the contractor shall provide federation capabilities across other domains within the DoD and IC to share mission critical information. The contractor shall establish federated naming and authentication between enclaves to enable discovery across them in accordance with applicable guidance, policy and direction. Contractor services and solutions shall adhere to core specifications, standards, and technologies, such as PKI, SAML, JMS, and WS-*, etc.

3.1.1.4 Metadata Environments

Metadata environments include the generation, consumption, and management of metadata to enable the operational user to discover authoritative and aggregated data and support automated mediation where appropriate. The contractor shall provide services and solutions that help generate and manage metadata and Metadata Environments (MDEs). The contractor shall maximize the use of COTS products when and where appropriate. Metadata are characteristics or attributes of information assets, describing the type of information asset, its structure or syntax, and its content or semantics, plus a wide range of other attributes that assist users in finding, managing, and consuming information contained in assets. The contractor shall develop and sustain a metadata environment to be used in the discovery of information by end users and other services, the management of information assets for storage, retention, and records management, and security authorization and access control. All metadata shall be created in accordance with the DoD Discovery Metadata Specification (DDMS) as appropriate. The contractor shall develop MDEs in accordance with the DoD Enterprise Architecture Data Reference Model or IC Architecture Reference Model as appropriate. The contractor shall develop a federated query capability to enable end users to discover and exploit mission services to gain mission essential information. Federated queries shall access MDEs within Enclaves to determine where information resides and how to access it. The MDE is characterized by the components and services it provides.

3.1.1.4.1 Metadata Components

The MDE comprises the following components: Metadata Registry, Metadata Catalog and Service Registry.

3.1.1.4.1.1 Metadata Registry

The contractor shall develop and support a Metadata Registry (MDR) to hold metadata definitions for the various types of metadata in a persistent store that is accessible during runtime operations. The contractor shall develop the capability for the MDE to use metadata from the MDR to tag instances of information assets with metadata values to support discovery, life cycle management, storage management, and categorization of the individual information assets. The contractor shall develop and support the capability for the MDR to track releasable information about individual artifacts and components of those artifacts where applicable. The metadata registry shall store COI vocabularies, and other metadata artifacts, describing the concepts and terminology required for information exchange within a COI. The vocabularies will be used by ADS's to format exposed information assets, and by the semantic discovery capability to allow users to find information assets and the services that deliver those assets. The contractor shall make it possible for vocabularies and other metadata artifacts registered in the AF MDE to become available through the DoD Metadata Registry or IC Metadata Registry using federation. The contractor shall manage metadata that enables users to discover and consume information provided by mission capabilities implemented as services.

3.1.1.4.1.2 Metadata Catalog

The contractor shall develop and support Metadata Catalogs that include metadata to describe individual information assets and that link those assets to the content delivery service that provides the asset to the end user. The metadata shall include the format of the information asset as delivered by the service, expressed as an XML schema, PDF, or other Government approved format and adhering to the vocabulary prescribed by the COI that governs that information asset. Metadata shall also include the tags necessary to support the Department of Defense Discovery Metadata Specification (DDMS).

3.1.1.4.1.3 Service Registry

The contractor shall leverage existing service registry and provide support for a Service Registry where all services are registered and stores information about implemented services, service interfaces, and the ports and bindings involved. The Service Registry shall also track the identities and credentials of services within the enterprise Cyber Security infrastructure. The Service Registry shall support the invocation of services to deliver information assets once selected by an end user or another requesting service. Metadata Catalog entries shall point to services registered in the Service Registry, where the SOA infrastructure will be able to invoke the service to deliver the information asset to the requestor. The Service Registry shall enable the information stored in it to be federated with other DoD or IC service registries.

3.1.1.4.2 Metadata Environment Services

MDE services include the following: MDE Infrastructure Services, MDE Lifecycle Management, Discovery Services, and MDE Federation.

3.1.1.4.2.1 MDE Infrastructure Services

The contractor shall provide infrastructure services to support MDEs. These services and solutions include, but are not limited to, Cyber Security, messaging, application hosting, storage management, and other core enterprise services. The contractor shall provide standard repository management services and solutions to support authorized administrative personnel in the creation, update, retrieval, and deletion of items within the MDE.

3.1.1.4.2.2 Metadata Lifecycle Management

Metadata Lifecycle Management includes the following services: Metacards and Asset Registration, Automated Metadata Population Services (AMPS), Versioning and Indexing.

3.1.1.4.2.2.1 Metacards and Asset Registration

The contractor shall provide services and solutions that support the manual or automatic population of metacards for registered assets in a structure that is compliant with DDMS or IC standards most current version and is in correlation with one or more COI vocabularies. The contractor shall provide services and solutions that support registering infrastructure services as assets, including, but not limited to, the following:

1. Services developed to support COI business processes (e.g., content exposure, aggregation and presentation).
2. Service interfaces based on one or more XML schemata, or other Government approved format.
3. Vocabulary artifacts that describe COI domain knowledge. This includes, but is not limited to, Web Ontology Language (OWL) representations of knowledge, and XML Schema Definition (XSD) representations of message types.

4. Information assets that are instances of authoritative content. This includes, but is not limited to, unstructured text documents, images, blob fields in databases and any other assets that qualify as requiring accountability of their content.

3.1.1.4.2.2 Automated Metadata Population Service (AMPS)

The contractor shall develop and support an Automated Metadata Population Service (AMPS) to automatically create the metadata for an information asset or service. AMPS shall automatically create metacards for registration in the Metadata Catalog. Users shall be able to invoke AMPS during registration of their assets to create metacards. AMPS shall be available as a service that can be invoked automatically during creation of an asset or in large scale metadata creation. AMPS shall be capable of tagging information assets defined by XML schemas as payloads coming from content delivery services so that services can be registered in the MDE and invoked upon discovery by an end user.

3.1.1.4.2.3 Versioning

The Contractor shall provide tools and services that will deliver version control of all metadata artifacts. These services will include but not be limited to capabilities that maintain different versions of the metadata artifacts such as metacards, ontologies, and indexes; manage and control deprecation of artifacts such as COI vocabularies; provide publication to consumers of versioning activities; ensure the application of the correct versions of the artifacts to other metadata services such as discovery, indexing, and automated metadata generation; and maintain histories and activity logs of metadata artifact versioning activities.

3.1.1.4.2.4 Indexing

The Contractor shall provide tools and services that will deliver indexing capabilities to support discovery and management of information assets. These services will include but not be limited to the indexing of metacards using keywords, concepts, and other indexing schemes; the application of the ontologies generated from COI vocabularies to the indexing of artifacts; the generation of the indexes either from metadata artifacts such as XSDs and WSDLs or directly from information assets in other formats such as documents, emails, or presentations. The services will also include capabilities that will maintain the indexes as metadata artifacts subject to the same constraints for versioning that are applied to the metadata artifacts to which the index references.

3.1.1.4.2.3 Semantic Discovery Services

The contractor shall provide services and solutions that support a semantic discovery capability that is based on vocabularies constructed by COIs. Semantic discovery users will be able to discover information based on their own preferred vocabulary, and automatically navigate across other users' vocabularies to find information relevant to each query. The semantic discovery capability will support both users seeking mission critical information as well as developers responsible for implementing new information capabilities for those users. The semantic discovery capability will pass DDMS metacard contents, rather than asset content, directly to consumers with delivery service invocation instructions which will be activated by consumers as required. The semantic discovery capability will federate with other DoD and IC Components and their information assets through the Joint DoD/DNI Federated Search Specification.

3.1.1.4.2.4 Federation of MDEs

The contractor shall provide services and solutions that support the federation of MDEs. Federation of MDEs will direct discovery queries to the right enclaves and, using the IA infrastructure, access information, and services across enclaves. The federation of MDEs will include the capability for MDEs to broadcast information requests and queries across all enclaves, if direct requests are not possible. The federation of MDEs will support the mutual exchange of metadata to share reference data and support roll-up of summary metadata for the purposes of discovery and metadata management.

3.1.2 Enterprise Level Security (ELS)

3.1.2.1 Cyber Security Architecture

The contractor shall provide services and solutions to realize an Cyber Security architecture that permeates all components and operations. The contractor shall deliver information architecture services that conform to the Air Force Enterprise Architecture along with adherence to DoD and federal standards for Cyber Security, using role-based, policy-based or attribute-based controls, and managing trusted relationships between network enclaves. The contractor shall support the conformance with the 2-way authentication and end to end security stipulated by SMI-ELS and the AF Cyber Security Enterprise Architecture.

The contractor shall provide services and solutions in support of a Cyber Security architecture that delivers but is not limited to the following five categories of security services: confidentiality, integrity, availability, authenticity and non-repudiation. The contractor shall provide services and solutions to exploit the Cyber Security architecture to protect information consumed and generated by mission services. The contractor shall provide the capability of delivering these services at a level commensurate with the information assets being protected.

The contractor shall provide infrastructure capabilities that enable SOA solutions to implement IA in accordance with WS assurance standards. WS standards will be defined at the task order level, but the expected ones are:

- WS-Security
- WS-SecureConversation
- WS-SecurityPolicy
- WS-Trust
- XML Signature
- XML Encryption
- XML Key Management (XKMS)

The contractor shall provide Cyber Security architecture, services, and solutions as stipulated by IC standards or other US, Allied, and Partner standards as specified in TO.

3.1.2.1.1 Confidentiality

The contractor shall provide confidentiality security services that prevent unauthorized disclosure of data, both while stored and during transit.

3.1.2.1.2 Integrity

The contractor shall provide integrity security services that prevent unauthorized modification of data, both while stored and in transit, and detection and notification of unauthorized modification of data.

3.1.2.1.3 Availability

The contractor shall provide availability services that ensure timely, reliable access to data and information services for authorized users.

3.1.2.1.4 Authenticity

The contractor shall provide authenticity services that ensure the identity of a subject or resource is the one claimed. The contractor shall ensure that authenticity applies to entities such as users, processes, systems, and information.

3.1.2.1.5 Non-Repudiation

The contractor shall provide non-repudiation services that ensure actions within the AF, DoD or IC SOA service invocations, information queries, etc., are attributable to the entity that invokes them.

3.1.2.2 Cyber Security Services

The contractor shall provide services and solutions to implement and conduct IA operations such as, but not limited to, identity management, identity authentication, threat analyses and certification and accreditation.

The contractor shall ensure that all the requirements meet the DoD Cyber Security Risk Management Framework (RMF) and DoDI 8500.2, Intelligence Community directive (ICD) 503, or the most current standards and guidance that are applicable. This includes Certification and Accreditation (C&A) activities. The contractor shall provide applications services that are in compliance with and support DoD, USAF, or IC Public Key Infrastructure (PKI) policies as applicable. The contractor shall support activities to make applications PK-enabled (PKE) in order to achieve standardized, PKI-supported capabilities for digital signatures, encryption, identification and authentication. The contractor shall assist in defining user and registration requirements to Local Registration Authorities (LRAs). The contractor shall provide solutions that meet confidentiality, data integrity, authentication, and non-repudiation requirements. Contractor solutions shall comply with National Institute for Standards and Technologies (NIST) and Federal Information Processing Standards (FIPS) and applicable IC standards.

As specified by the Task Order, the contractor shall provide Commercial-Off-The-Shelf (COTS) IA and IA-enabled products IAW AFI 33-200, Cyber Security or other specified guidance. These products must be National Security Telecommunications and Information Systems Security Policy Number 11 (NSTISSP-11) compliant, requiring them to be validated by accredited labs under the National Cyber Security Partnership (NCSP) Common Criteria Evaluation and Validation Scheme or National Institute of Standards and Technology (NIST) Federal Information Processing Standards (FIPS) Cryptographic Module Validation Program (CMVP) or IC standards as applicable.

The contractor shall ensure that all infrastructure deliverables comply with the Defense Information Systems Agency (DISA) Security Technical Implementation Guide (STIG) and Computer Network Defense (CND)., which includes the need for source code scanning, the DISA Database STIG, and a Web Penetration Test to mitigate vulnerabilities associated with SQL injections, cross-site scripting, and buffer overflows. The contractor shall also support activities and meet the requirements of DoDI 8520.02, Public Key Infrastructure (PKI) and Public Key (PK) Enabling, in order to achieve standardized, PKI-supported capabilities for biometrics, digital signatures, encryption, identification and authentication.

3.1.2.2.1 Identity Management

The contractor shall provide services and solutions to accomplish identity management to enable users and applications to discover one another and utilize services provided by entities using methods such as the negotiated collaborative approach. The contractor shall also provide capabilities to selectively monitor interactions and manage all active identities to include user, services, machines, and services identity based on PKI.

The contractor shall provide services and solutions to accomplish life-cycle entity identity management from user creation to user revocation, as depicted in Figure 2. Entities are defined as both human and non-human users possessing accounts within the enterprise. The contractor shall support user creation (identity confirmation, credentialing, enrollment), user management (provisioning across single or multiple systems and services, automated provisioning workflow, and self-service), user access (identification, authentication, and authorization), and user revocation (de-provisioning and disablement). The contractor shall enable the de-provisioning process through automated account disablements and token revocation. The contractor shall provide access controls with rights, roles and privileges. The contractor shall provide the capability for all accounts to comply with Federal Information Protection Standard (FIPS) 196, or other

specified standard in TO, by using approved methods of authentication such as, but not limited to, the following:

- Public Key Infrastructure (PKI) based authentication.
- One-Time Password Tokens.
- Biometrics with PIN or password.

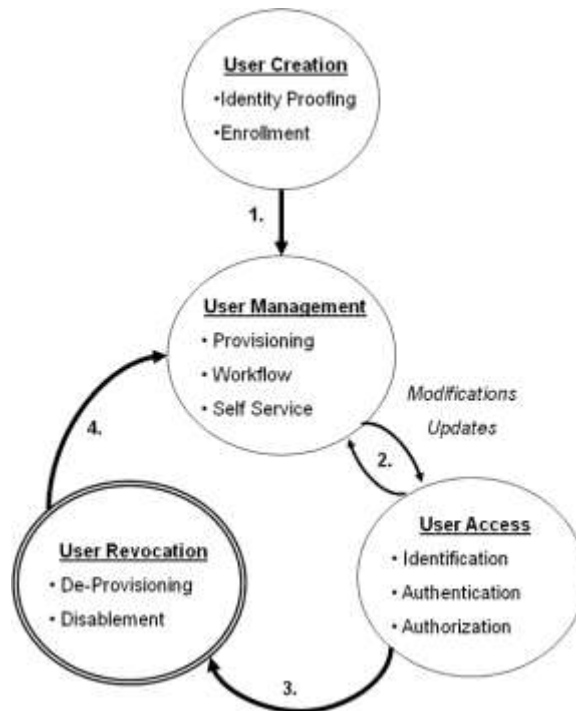


Figure 2: Enterprise Entity Lifecycle

3.1.2.2.2 Threat Analysis

The contractor shall conduct comprehensive threat analyses for Network Defense of the SOA Cyber Security architecture in support of DoDIN Network Defense.

3.1.2.2.3 Certification and Accreditation

The contractor shall provide services and solutions to help address the risks associated with AF network convergence into an interoperable enterprise and accomplish the certification and accreditation (C&A) of the AF SOA infrastructure. The contractor shall follow the DoD Cyber Security Risk Management Framework (RMF) or ICD 503 to accomplish the infrastructure C&A as applicable. In order to satisfy DoD system security documentation requirements, the contractor shall register the SOA infrastructure in the Enterprise Information Technology Data Repository (EITDR), and complete the Security, Interoperability, Supportability, Sustainability and Usability (SISSU) checklist, as described in the IT LEAN Reengineering and SISSU Guidebook, v5.0, 4 April 2007. The contractor shall accredit the SOA infrastructure so that it can be leveraged by individual mission services. TOs for classified network support will identify when alternative registries and C&A guidance is applicable.

3.1.2.3 Enabling Security Capabilities

The contractor shall provide the following enabling capabilities to facilitate Warfighter access to critical mission capabilities:

1. Ensure all interactions between people, machines, and services are verified using security policy

2. Conduct confirmed 2-way authentication using DOD-PK I and Federal Bridge credentials or applicable IC PKI and bridge
3. Authorize access to data based on groups and roles
4. Monitor and log all activities to provide for both real time assessment and historical analysis
5. Use automated tools to analyze and detect anomalous behavior using real time/logged information to preclude and prevent internal attacks on Air Force information and computing resources
6. Delegate roles and groups based on policy
7. Mediate graduated access to data for various types of users
8. Enable efficient cross-domain information sharing across networks operating at different classification levels (e.g., SIPRNET, NIPRNET, and JWICS)
9. Operate, maintain, and configure point to point, VPN, and bulk encryption for network and longhaul circuits
10. Provide encryption to the base campus SIPRNet connectivity.
11. Provide SCI network security capabilities as specified in TOs.

3.1.3 Enterprise Service Management

The contractor shall provide services and solutions to accomplish SMI-ELS service level management. The contractor shall provide operation and maintenance of the SMI-ELS infrastructure including, but not limited to, network monitoring, load balancing, information archival and backup, disaster recovery, Continuity of Operations (COOP), and enterprise support desk (ESD). The ESD shall support users encountering issues in accessing mission capabilities.

The contractor shall provide lifecycle management of services for both requestors of services and service providers. The contractor shall establish processes to inform users of the availability of new version of services.

The contractor shall provide enterprise service management to SCI networks as specified in TOs.

3.1.4 SMI-ELS Architecture Documentation

The contractor shall document the Singularly Managed Infrastructure with Enterprise Level Security (SMI-ELS) within the AF Enterprise Architecture (EA). The contractor shall document the Metadata Environment in the DoD EA Data Reference Model (DRM). The contractor shall document the standards and protocols that the AF will enforce in the DoD EA Technical Reference Model (TRM). The contractor shall develop DoD Architecture Framework (DoDAF) products or products adhering to other architecture guidelines as specified in task orders. The contractor shall support process improvement events, such as AFSO21, to address SMI-ELS processes and issues. The contractor shall document AFSO21 products and engineered processes in the Process Reference Model (PRM) and DoD EA System Reference Model (SRM).

The contractor shall develop, document, and register SCI architectures and artifacts per TO directions. The contractor shall document engineering processes and process improvement activities and artifacts per TO directions for SCI systems and networks.

3.2 Network Services and Solutions

The contractor shall provide services and solutions that enable Network Operations and Network Infrastructure capabilities. Networks as defined in this section are for Data, Voice and Video.

3.2.1 Network Operations

The contractor shall provide services and solutions that enable Network Operations (NetOps) to operate and defend the DoD Information Network (DoDIN) to ensure information superiority. DoDIN network operations refer to land, air, and space networks across multiple levels of security. The contractor shall provide capabilities that support the essential tasks, Situational Awareness (SA), and Command and

Control (C2) that comprise the operational framework that comprise NetOps. The contractor shall support the following essential NetOps tasks: DoDIN Enterprise Management (EM), DoDIN Network Defense (DoDNetD), and DoDIN Web Content Management.

The contractor shall provide services and solutions that help the Government attain the following desired effects in its management of the DoD Information Network (DoDIN):

1. Assured System and Network Availability that ensures uninterrupted availability and protection of system and network resources. This includes providing for graceful degradation, self-healing, fail-over, diversity, and elimination of critical failure points.
2. Assured Information Protection of information in storage, at rest, while it is passing over networks, including from the time it is stored and catalogued until it is distributed to users, operators, and decision makers.
3. Assured Information Delivery of information to users, operators, and decision makers in a timely manner.

3.2.1.1 DoDIN Enterprise Management (EM)

The contractor shall provide services and solutions that enable Enterprise Management. This shall include traditional systems and network management (Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management), as well as information and infrastructure protection. It shall also encompass the DoDIN's information technology (IT) services management and consist of the many elements and processes needed to communicate across the full spectrum of the DoDIN, including the following:

1. Enterprise Services Management
2. Systems Management
3. Network Management
4. Satellite Communications Management
5. Electromagnetic Spectrum Management

3.2.1.1.1 Enterprise Messaging and Directory Services

The contractor shall provide services and solutions that enable directory services, e-mail and organizational messaging in accordance with Enterprise Architecture..

3.2.1.1.2 Enterprise Application Services and Service Management

The contractor shall provide services and solutions that enable service management and the management of enterprise application services, including, but not limited to, the following:

1. Monitoring and measuring application and service health and performance
2. Reporting and visualizing key application and service QoS metrics
3. Monitoring and enforcing service level agreement (SLA) compliance
4. Managing application and service lifecycles
5. Provisioning applications and services
6. Logging and auditing application and service activities
7. Anticipating application and service problems and sending alert notifications
8. Pinpointing the root cause of application or service problems and allocating resources to correct the problems
9. Automating failover and load balancing
10. Mediation services transforming service messages and performing content based routing
11. Correlating enterprise service messages for business transaction tracking

3.2.1.1.3 Enterprise Information Management

The contractor shall provide services and solutions that enable information management services, including, but not limited to, the following:

1. Collaboration Services
2. Continuity of Operations
3. Disaster Recovery
4. Data Storage
5. Storage Area Network
6. Network Attached Storage
7. Back-Up/Archive
8. Records Management

3.2.1.2 DoDIN Network Defense (ND)

The contractor shall provide services and solutions that enable DoDIN Network Defense, including, but not limited to, the following:

Cyber Security (CS) – Measures that protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation. This shall include, but not be limited to, providing for restoration of information systems by incorporating protection, detection, and reaction capabilities. IA services shall include, but not be limited to:

- a. Assured Information Sharing and Management
- b. Access Control
- c. Cross-Domain Security
- d. Information Environment Protection
- e. Certification and Accreditation
- f. Risk Analysis
- g. Cyber Security Awareness
- h. Auditing
- i. Emanations Security (EMSEC) /TEMPEST for TS or SCI environments
- j. Communication Security (COMSEC)
- k. Operation Security (OPSEC)
- l. Information Protection
- m. Authentication
- n. Resource Protection
- o. Federated Identity Management
- p. Virtual Private Networking
- q. Network Protection
- r. Filtering
- s. Intrusion Detection and Prevention
- t. Cryptographic Services
- u. Key and Certificate Services
- v. Insider Threat Protection
- w. Anomalous behavior detection
- x. Time Compliance Network Order (TCN)
- y. Computer Incident Response Team (CIRT)
- z. Air Force Computer Emergency Response Team (AFCERT)
- aa. Telecommunications Monitoring and Assessment Program (TMAP)

1. Computer Network Defense (CND) – Defensive measures to protect, monitor, analyze, detect, and respond to unauthorized activity with DoD information systems and computer networks and defend information, computer, and networks from disruption, denial, degradation, or destruction. This shall include, but not be limited to, the employment of IA capabilities in response to CND alert or threat information and the capability to predict, analysis and defend against new attack vectors..
2. Computer Network Defense Response Actions (CND RA) – Deliberate, authorized defensive measures or activities that protect and defend DoD computer systems and networks under attack or targeted for attack by adversary computer systems/networks. The contractor shall also rapidly and accurately implement JTF-GNO and NetOps directed Information Operations Condition (INFOCON) changes and provide Command and control on the progress and completion.
3. Defense Critical Infrastructure Protection (CIP) – Actions taken to prevent, remediate, or mitigate the risks resulting from critical infrastructure vulnerabilities. Actions shall include, but not be limited to, changes in tactics, techniques, or procedures; adding redundancy; selection of another asset; isolation or hardening; guarding; etc.

3.2.1.3 DoDIN Web Content Management

The contractor shall provide services and solutions to develop and administer web sites that enable Web Content Management and help ensure information is available to users on the DoDIN to accomplish their mission. Capabilities shall include, but not be limited to, those that enable the following core services areas:

1. Web Content Discovery – The ability to quickly search for information throughout the DoDIN. The contractor shall provide the capability for operational staffs to search across multiple sources from one place using a web crawler and web browser, vice making several attempts. Once products are located, the Content Delivery service shall permit users to pull in needed products.
2. Web Content Delivery – Delivery of requested information to DoDIN users. The contractor shall provide the capability for timely delivery of items across multiple, heterogeneous communication systems with delivery and read receipt notifications, providing assured delivery of information products.
3. Content Storage – The contractor shall provide and support physical and virtual places to host data on the network throughout the DoDIN with varying degrees of persistence.

The contractor shall provide services and solutions that provide Network Operations Centers with capabilities such as, but not limited to, the following:

1. The ability to optimize the flow and location of information over the DoDIN by positioning and repositioning data and services to optimum locations on the DoDIN in relation to the information producers, information consumers, and the mission requirements.
2. The ability to ensure that the DoDIN is optimally delivering the information required by DoDIN users in accordance with information delivery priorities.
3. The visibility of information flowing across the DoDIN and of those systems used to store, catalog, discover, and transport information.
4. Tools to view information flows and access, determine impact to network capacity, and ensure user profiles are being satisfied with a reasonable quality of service.

5. The capability to prioritize information requirements, determine the sources responsible for providing that information, and stage information content throughout the DoDIN in support of a given operation.
6. The ability to track and maintain knowledge of various requests and user profiles for information.
7. The ability to coordinate changes in operating parameters of DoDIN assets.
8. The ability to review and validate the user-profile database.

3.2.1.4 Network Operations Enabling Capabilities

The contractor shall provide services and solutions that accomplish or provide the following enabling capabilities:

1. Distributed Network Connectivity – Robust, redundant data paths and nodes with both physical and logical diversity to maximize effectiveness and eliminate single points of failure.
2. Continuity of Operations (COOP) – Plans and capabilities to enable uninterrupted NetOps operations with seamless transfer of operations, especially network C2 following outages at any key NetOps sites. These shall include, but not be limited to, fully redundant backup capabilities with automatic failover that is transparent to users.
3. Information Management and Exchange – Automated tools and processes to facilitate the exchange of information and to aid operators in visualizing network operations and events, to facilitate rapid event characterization and information exchange, and to keep pace with rapidly changing networks. Operate the Base Information Transfer System and Official Mail Center. Provide Privacy ACT, Freedom of Information Act (FOIA), and record management training.
4. Standardization – Standardization of configurations, processes, and applications across the enterprise from the gateways to the desktops to facilitate centralized management, enhance security through configuration control, and save manpower in certification and accreditation, patch implementation, hardware/software upgrades, and asset tracking.
5. Risk Management – A multi-faceted and global approach for risk management on applications currently residing on the network and new applications waiting to be fielded. This approach shall assess the benefits of adding the application to the network and any security risks it may introduce, the ability to execute corrective actions or configuration control measures, and the potential effect any change would have on network configuration, services, or other applications. This process shall apply across MAJCOMs and include arbitration processes in the event of a conflict between the intended user and others. Solutions shall follow Government approved standards such as the Information Technology Infrastructure Library (ITIL) framework.
6. Change Management – Tools, tactics, techniques and procedures for accomplishing change management across the AF enterprise to help implement network operational concepts.
7. Training – Resources need to provide training such as training materials, instructors and facility.
8. System Administrator- Set up, configure, develop, maintain, troubleshoot, and support internal and external networks.
9. Database Management- Perform loads, upgrade, patches, data recovery, backups, and maintain active directory.
10. Account Management – Create, delete, and modify voice, data, and video accounts and provides means to unlock Common Access Card (CAC).

3.2.1.5 Network Command and Control (C2)

The contractor shall provide services and solutions that enable network command and control, including, but not limited to, the following:

1. The consolidation of network situational awareness (SA) services and solutions that integrate command and control (C2) capabilities, eliminate the need for scheduled manual reporting, and provide the warfighter with on-demand, real-time operational status of networks, core services, and applications directly serving or influencing his or her Area of Responsibility.
2. Rapid characterization and response to anomalous activity, including, but not limited to, “low and slow” network probe and exploitation efforts, and implement appropriate defensive actions or countermeasures.
3. Trend analysis and correlation of network incidents (e.g., probes, intrusions, and virus outbreaks), outages, and degradation events.
4. Rapid implementation of security countermeasures by facilitating the coordination of network restoration priorities and actions after an intrusion or adverse network event.
5. Coordination and reallocation of limited resources (e.g., bandwidth, frequencies) in response to multiple and/or conflicting warfighter requirements.

3.2.1.6 Network Management and Enterprise Services

The contractor shall provide services and solutions that accomplish Network Management for AF Network Operation Center (AFNOC)/ Integrated Network Operations and Security Center (I-NOSC) activities such as, but not limited to, the following:

1. Automation and enforcement of network policy
2. Operation of network sensors
3. Monitoring and analysis of network behavior
4. Network performance analysis and tuning
5. Network counter measures.
6. Network boundary management and control.
7. Network security access
8. Network service orchestration
9. Execution of INFOCON
10. Asset management to include Equipment Management

The contractor shall provide services and solutions that accomplish Network Management and Support for the Enterprise Support Unit (ESU) and the Enterprise Service Desk (ESD) anticipated activities such as, but not limited to, the following:

1. Network configuration management
2. Load balancing
3. Vulnerability analysis and response
4. Application and content management
5. Continuity of Operations (COOP) management
6. Resource virtualization
7. Information lifecycle management
8. Service Orchestration
9. Virtualized IT service support
10. Help Desk/Call Center
11. Security Management Service

The contractor shall provide services and solutions that accomplish Enterprise Services to support Network Operations such as, but not limited to, the following:

1. Information technology (IT) service virtualization
2. IT Support
3. Service/security management and provisioning
4. Domain security
5. Cross-domain security
6. Collaboration (video teleconference)
7. Content and service staging
8. Federated content discovery
9. Application, system, services and data hosting
10. Development of applications for database or web pages
11. Producer to consumer availability of service
12. Configuration and change management

TOs from other agencies, departments, or AF functional communities for the same purpose may be issued. These TOs may specify and substitute other standards, guidance, and applicable within their TO to provide solutions tailored to meet their network management and enterprise services strategies

3.2.2 Network Infrastructure

The contractor shall provide services and solutions in support of transport layer capabilities to deliver the physical infrastructure upon which the SOA middleware and services operate, including, but not limited to, messaging capabilities and site preparation and installation services. Support of the transport layer includes the AF's Information Transport System (ITS) which is the engineering, installation, and sustainment of the high-performance, survivable fiber optic backbone to include "wired" and "wireless" networks.

3.2.2.1 Messaging

The contractor shall provide messaging capabilities allowing separate, uncoupled applications to reliably communicate asynchronously. The messaging system architecture generally replaces the client/server model with a peer-to-peer relationship between individual components, where each peer can send and receive messages to and from other peers. The contractor shall provide delivery pathways, such as Web services, HyperText Transfer Protocol (HTTP) or HyperText Transfer Protocol Secure (HTTPS) connections, or other links, as needed to support content delivery and presentation service requests. The contractor shall tag and register delivery pathways as necessary. The contractor shall support other data transport pathways, such as File Transfer Protocol (FTP) and Open DataBase Connectivity (ODBC), for legacy systems and databases.

The contractor shall provide messaging services including, but not limited to, the design and/or implementation of: messaging architecture; point-to-point distribution of messages; publish-subscribe distribution of messages; message producer; message consumer; one-way interaction between a message producer and a message provider; request-reply interaction between a message producer and a message consumer; and connectivity between an application and a messaging provider.

The contractor shall provide messaging services that encompass, but are not limited to, provision of federated, distributed, and fault-tolerant enterprise messaging capabilities; message publishing and subscribing, peer-to-peer messaging and queuing; support for the configuration of QoS parameters for a published message, including the priority, precedence, and time-to-live (TTL); provision of guaranteed delivery to disconnected users or applications; development of Online Asynchronous Processing (OLAP) and real or near real-time enterprise data reporting capabilities.

3.2.2.2 Site Preparation and Installation Services

The contractor shall perform site preparation and installation activities to support implementation of required services and solutions under this contract at any AF, DoD, or other Federal Agency location.

3.2.2.2.1 Requirements Analysis and Conceptual Design

The contractor shall perform requirements analyses and conceptual designs at required locations. During this process, the contractor shall collect all the information to complete a requirements analysis and conceptual design. The contractor shall survey, evaluate, and provide technical advice concerning all existing infrastructures, communications, power, Heating, Ventilation and Air Conditioning (HVAC), and environmental aspects of the site. The contractor shall provide an implementation plan, in accordance with the task order, reflecting the strategy, schedule, and recommendations (e.g., site architecture, topology, and configuration) for the implementation with considerations of on-site failover and continuity of operations. The Government will provide applicable information, as available, such as existing/projected user network resources and locations, GFE, base support requirements, and other written information related to specific implementation for each task order to establish the unique characteristics of each site. Access to Government facilities will be provided and interviews shall be coordinated with Government points of contact specified in the task order.

Types of support and services provided by the contractor shall include, but not be limited to: Email, Server and Storage Area Network Administration, Security Boundary Administration, Print Management, Configuration/Release Management (i.e. Security/Patch Administration, etc), Mobile/Remote User Services Support and Administration, Network Infrastructure Management and Administration, Certification and Accreditation (i.e. Security Scanning, etc), Directory Services, and Event Management.

The contractor shall possess reach back capabilities to obtain expertise that may not be immediately available onsite and the ability to surge in times of crisis.

The contractor is required to deliver all services and solutions provided under this contract described below. The contractor shall design, develop, install, document and test custom solutions and their infrastructures. The contractor shall enable system solutions to integrate with: Air Traffic Control, Land Mobile Radio, Command Post Switches, Defense Red Switch (DSR), Defense Red Switch Network (DRSN), Giant Voice, Enhanced 911, Cell Systems, Base Altering Systems and Crash Nets, and any other systems specifically identified in the task order.

3.2.2.2.2 Site Survey

The contractor shall perform site surveys at required locations. The findings of the site survey and any actions required in preparation for system installation shall be documented.

3.2.2.2.2.1 Systems Engineering

The contractor shall provide systems engineering solutions for the analysis, design, integration, installation, testing, and life-cycle support of new and upgraded systems associated with delivery of infrastructure capabilities as defined by the AF enterprise architecture. The contractor shall employ disciplined systems engineering processes in accomplishing contract taskings, using commercial best practices in accordance with of AFI 63-101/20-101, Integrated Life Cycle Management, for systems engineering processes in planning, architecting, requirements development and management, design, technical management and control, technical reviews, technical measurements, integrated risk management, configuration management, data management, interface management, decision analysis, systems management, inspections and maintenance, sources of supply maintenance and repair, and test and evaluation, verification and validation. These systems engineering solutions shall follow industry standard engineering processes and may include but not be limited to: Technical assessments of all user requirements, integration of all GFE and Contractor Furnished Equipment (CFE) as proposed, hardware

and software information, network applications, system design, training (COTS or customized)(initial and recurring), maintenance and support, system interface studies and control documents, network integration and test plans, cost analysis/trade-off studies, engineering change proposals, Voice Switching System (VSS) facility and systems/applications studies, VSS call detail recording and traffic measurement data analysis, engineering support (digital transmission/switching equipment) to Government engineers. The contractor shall provide reengineering capabilities to examine structures, systems and roles for the purpose of executing a ground-up redesign for achieving long-term, full-scale integration required for the DoDIN.

Task orders may further refine the systems engineering processes according to MAJCOM or functional policies and practices. The contractor shall employ the principles of open technology development described in the DoD Open Technology Development Guidebook and in Net-Centric Enterprise Solutions for Interoperability (NESI) body of knowledge, and systems engineering activities used in developing contractor solutions shall adhere to open architecture designs for hardware and software, and employ a modular open systems architecture approach. The contractor's systems engineering planning and design activities shall also adhere to the DoD's Information Sharing and Net Centric Strategies published by the DoD CIO and the engineering body of knowledge and lesson's- learned accumulated in NESI. TOs may require adherence to other governmental standards.

3.2.2.2.2.2 System Upgrade/Update Support

The contractor shall provide system upgrade support and future planning associated with delivery of infrastructure capabilities as defined by the AF enterprise architecture. The contractor shall maintain currency with the design and development of systems similar to those implemented in the VSS, and discuss recommended changes or strategies with the Government. The contractor shall identify current or anticipated problem areas relating to telephony hardware and software systems and present technical issues of interest or value to the Government regarding VSS.

The contractor shall provide information regarding technology advancement to the Government and support new telecommunications products and solutions as they are approved by the DoD JITC and introduced into the VSS network. These newly emerging solutions must adhere to AF or IC security requirements as they pertain to voice telecommunications assets prior to installation.

3.2.2.2.2.3 Post-Cutover Support

Each solution shall include a warranty as specified in Section I, Clause 52.246-17. In addition to FAR Clause 52.246-17, the following additional requirements apply: Users shall have highly reliable and maintainable telephony products and system solutions to interoperate with the described environment. Components shall be maintainable and expandable by the user without voiding the warranty coverage.

In addition to any OEM warranty coverage, three types of post cutover operation and maintenance support shall be provided: System Support, Workmanship Support, and Construction Support. The contractor shall provide for restoration of the system and repair of equipment in a timeframe specified as required by this contract, unless stated otherwise in the task order. The means to transport equipment and repair personnel both to and from the Government site is the responsibility of the contractor. The contractor shall provide technical support, software support, and hardware replacement for failed components, engineering support, and maintenance services necessary to ensure active management, reliable operations, and rapid restoration. These technical support services shall include Tier II to Original Equipment Manufacturer (OEM) level support as required based on the need to achieve problem resolution. All technical support shall be provided by certified technical personnel fluent in the English language. If the Offeror is alerted to a degradation or failure, the Offeror shall provide immediate support to the operational user to identify, troubleshoot, and remedy the problem. The Offeror shall execute all hardware repair actions necessary to return the affected system to full operational capability. If the failed equipment is no longer under any alternative warranty support, the Offeror shall provide replacement equipment. Technical support shall be provided on a continuous, as-needed basis twenty-four (24) hours per day, 365 days per year for systems,

peripherals, applications, and devices deployed. The contractor shall provide toll free, email, DSN, and PSTN access capabilities to contact requesting support for support issues.

3.2.2.2.3 Design/Integration Reviews

The contractor shall conduct design and integration reviews if required in the task order and in compliance with disciplined system engineer processes. This may be a formal or informal preliminary and final design reviews.

The contractor shall provide a single source of integration management for worldwide support, planning and sustainment of dissimilar manufacturer's switching systems, applications and peripheral equipment related to the VSS. The contractor shall identify cross functional applications and technical issues from selected symbiotic functional areas and document the opportunities for resolving the issues. The contractor shall report impacts on the issues such as costs, return on investment, schedule dependencies and recommend functional and technical solutions. The contractor shall identify integration issues and problems such as requirements definition, architecture and policy/standards compliance and engineering guidelines compliance. The contractor shall enable convergence with data systems and/or collaborative tools as specified and required in the task order.

3.2.2.2.3.1 Prototypes

The contractor shall develop schedules and implementation plans with definable deliverables, including parallel operations where required, identification of technical approaches, and a description of anticipated prototype results associated with delivery of infrastructure capabilities as defined by the AF DoD or applicable IC enterprise architecture.. The contractor shall operate and maintain prototype applications, infrastructures, models and databases to determine optimal solutions for integration concepts and problems integral to the integration process.

3.2.2.2.3.2 Preliminary Design/Integration Review (PDR)

During the PDR, the contractor shall present initial draft system design associated with delivery of infrastructure capabilities as defined by the enterprise architecture for Government review. The draft documents to be reviewed shall include those specified in the Task Order. Examples may include the system requirements, the final Site Survey Report, System Design, Installation Specification (IS), Engineering Drawings and Installation Plan. This review shall include a list of recommended long-lead time items that the Government must order and have available at the time of system installation. This review shall be in sufficient detail to ensure technical understanding of the following: mission and requirements analysis, identification of all equipment and software to be integrated and to be used in the development of the design, and the scope and schedule of the work to be performed.

3.2.2.2.3.3 Final Design/Integration Review (FDR)

During the FDR, the Contractor shall present final system design documentation associated with delivery of infrastructure capabilities as defined by the enterprise architecture for Government review. The documents shall consist of those identified in the Task Order. Upon Government approval of the FDR documentation, the Contractor will be authorized to proceed with the installation. If discrepancies are identified, the Contractor shall correct all discrepancies and another FDR may be required at the discretion of the Government.

3.2.2.2.4 Site Preparation

As part of an overall system design and installation, the contractor may be required to perform site preparation support as required by the IS and approved by the Government Contracting Officer. The Government may, at its option, perform any portion or all of the requirements documented in the site survey report. Base civil engineering functions (or equivalent) will be used whenever possible. The

contractor shall work with the base Quality Assurance Personnel (QAP) to accept civil engineering functions (or equivalent) as being in accordance with the approved implementation plan prior to beginning work. The final IS shall specify what site preparation the Government will perform and what site preparations the contractor will perform.

3.2.2.2.4.1 Pre-Installation Briefing

As required by the task order, the contractor shall present pre-installation briefings at the user sites. These briefings shall include the implementation strategy, installation schedule, verification that all allied support is completed and the site is ready for installation, and discussions of any potential problem areas. Additional pre-installation briefings may be held, as required by the Government.

3.2.2.2.4.2 Government Support

The Government will furnish facilities and utilities to the Contractor, including light, heat, ventilation, electric current, and outlets for use by installation personnel as required and stated in Task Orders. These facilities and utilities will be provided as specified in the Site Survey Report. These facilities will be readied prior to arrival of Contractor personnel and be provided at no cost to the Contractor. The Contractor shall provide required temporary utilities, which are not readily available in the work area. The Contractor shall coordinate, through the on-site QAP, any requirement before temporary disconnection of a utility. The Contractor shall submit a request in writing to the on-site QAP fourteen (14) days in advance of the necessity of utility disconnection.

3.2.2.2.4.3 Installation

The contractor shall engineer, install, configure, modify, relocate, or remove Communication and Information (C&I) systems for operational use. The systems and equipment installations or modifications must comply with established architectures. The contractor shall perform validation and verification testing on the system, assist users in configuring the system to meet their system requirements, and provide all applicable operating manuals/system management guides. Further, the contractor shall provide pre-cutover and post-cutover on-site training IAW with task orders. The government will identify personnel who will receive this training. The training shall provide for in-depth hands-on maintenance, operations and database administration.

3.2.2.2.4.4 Inside Plant

The contractor shall, (as required by each task order), install and configure of all the components for inside plant (e.g., power, groundings, HVAC, racks, fiber optic distribution panels, equipment, internal cabling, comm. closet, etc). The contractor shall install and test all cable and components IAW accepted industry standards, unless superseded by a Government approved IS indicated within the task order. Electrical and communications cable, conduits, and circuits shall be installed IAW the National Electric Code (NEC). The contractor shall clearly label each end of every individual cable in accordance with the floor plans or engineering drawings. The contractor shall provide attached labels that are durable and legible. For any deviations to the specific installation specification, the contractor shall submit a proposal to the contracting officer for approval.

3.2.2.2.4.5 Outside Plant

The contractor shall, as required by each task order, install and configure of all the components for outside plant (e.g., fiber, manholes, duct, building entries, trenching, digging, constructions, external cabling, etc). The contractor shall install and test all cable and components IAW accepted industry standards, unless superseded by a Government approved IS indicated within the task order. Electrical and communications cable, conduits, and circuits shall be installed IAW the National Electric Code (NEC). The contractor shall clearly label each end of every individual cable in accordance with the floor plans or engineering drawings. The contractor shall provide attached labels that are durable and legible. For any deviations to the specific installation specification, the contractor shall submit a proposal to the contracting officer for approval. The

contractor's design should not include aerial cable unless the Government has approved specific site exceptions. When use of aerial cable is approved, installation and test shall be IAW accepted industry standards, unless superseded by a Government approved IS indicated within the task order.

3.2.2.4.6 Tools and Testing Support

The contractor shall provide all tools, installation materials, and test equipment required to perform any required product installation and maintenance as called for by the task order. All tools and test equipment shall remain the property of the contractor. Any damage caused by the contractor to existing site facilities or equipment which might occur during site preparation, installation, testing or cutover of the system will be repaired at the expense of the contractor unless otherwise directed by the Government. The site shall be restored to the original condition which existed prior to the event unless otherwise directed. The Task Order will specify testing and inspection requirements. The contractor shall demonstrate that the system design meets the reliability/availability/maintainability requirements of the task order. Mean Time Between Failure data will be used to calculate the reliability/availability/maintainability of the system. The calculations shall be based on all of the equipment installed in the network. The contractor shall be capable of performing reliability, availability, and maintainability analyses of components, isolated sub-networks and the entire system.

3.3 Dynamic Test Environment

The contractor shall provide tools and services to support the design, implementation, and operation of a dynamic test environment. The dynamic test environment will enable applications developers to deploy their applications and services into the infrastructure and test the operation of those applications and the effect of those applications on other fielded capabilities.

3.3.1 Design

The contractor shall provide tools and services to support the design of the dynamic test environment. This will include but not be limited to defining concepts for dynamic testing; articulating processes and procedures for conducting dynamic testing; architecting the test environment; evaluating and selecting products and technologies for the test environment.

3.3.2 Implementation

The contractor shall provide tools and services to implement the dynamic test environment. This will include but not be limited to configuring the products and technologies required by the design of the test environment; installing those products and technologies in location designated by the design; developing capabilities necessary to fully integrate the products and technologies with each other and with existing infrastructure capabilities; integrating the products, technologies and developed capabilities with existing infrastructure capabilities to configure the test environment; and developing and executing test procedures to ensure the proper functioning of the test environment.

3.3.3 Operation

The contractor shall provide tools and services to operate the dynamic test environment. This shall include but not be limited to developing operating procedures, user guides, training materials, and other documentation to ensure correct use of the test environment by users; developing administrative and management processes and documentation to ensure proper operation of the test environment in support of end users; monitoring the operation of the test environment to ensure users are achieving their test objectives; conducting performance evaluations of the test environment; and scheduling and executing technology refreshes and other activities to ensure the ongoing operation of the test environment.

3.4 Communication Operations and Maintenance (O&M)

The contractor shall provide services and solutions that accomplish O&M that include, but not limited to the following:

1. Operations and Telephony Infrastructure to include telephone customer support
2. Meteorological and Navigational Aids (METNAV)
3. Land Mobile Radios (LMR)
4. Personal Wireless Communication Systems (PWCS)
5. Video Teleconferencing (VTC)
6. Satellite Communications (SATCOM)
7. Air Traffic Control and Landing Systems (ATCALS)
8. Radar
9. Computer Systems Control (Tech Control) including but not limited to Circuit Management, Circuit Management Office, and Telecommunications Manager
10. Electronic Communication Management
11. Visual Imagery and Intrusion Detection
12. Deployment Manager
13. Antennas

3.5 General Requirements

The contractor shall meet the following requirements throughout the life of this contract, independent of ID/IQ task orders. All services and solutions provided under this contract shall conform to the guidelines detailed in the following paragraphs.

3.5.1 Contractors Use of NETCENTS-2 Products Contract

The contractor shall obtain all products and associated peripheral equipment required by each individual task order from the NETCENTS-2 Products contract. The Contractor shall ensure that services, solutions and products meet the standards identified in the AF Standard Center of Excellence Repository (SCOER) located at <http://www.netcents.af.mil/contracts/netcents-2/netops/documents/index.asp>.

3.5.2 Enterprise Software Initiative

In situations where the purchase of new COTS software is needed to satisfy the requirements of a particular task order, the contractor shall first use available existing enterprise licenses, then products obtained via the DoD's Enterprise Software Initiative (ESI) Blanket Purchase Agreements (BPAs), and then the NETCENTS-2 products contract. The updated listing of COTS software available from DoD ESI sources can be viewed on the web at <http://www.esi.mil>. The NETCENTS-2 NetOps and Infrastructure Solutions task order Contracting Officer will authorize the contractor to use existing enterprise licenses or ESI vehicles for task orders issued under this contract. Task orders may be modified as applicable to meet IC or other functional community requirements.

3.5.3 Software License Management

When required at the task order level, the contractor shall provide maintenance and support to control the entire asset life-cycle, from procurement to retirement, which includes applications, license agreements as well as software upgrades. The contractor shall provide asset inventory and services that track the financial aspects of an asset to include cost and depreciation, contract management, leases, maintenance agreements and service contracts. The contractor shall provide support summary information to include the general terms and conditions, benefits, strategic and tactical directions, license ordering information, internal billing process, pricing and deployment and support of the products included in the agreement. The contractor shall support common practices for ordering assets, tracking orders and assets, and

tagging the assets. The contractor shall support application installation, operations, customer support, training, maintenance, sustainment, and configuration control, to include the procurement of supporting software licenses.

3.5.4 Hardware

All hardware provided in support of solutions under this contract shall include all software and associated hardware required for operations (such as controllers, connectors, cables, drivers, adapters, etc.) as provided by the OEM.

3.5.5 Software Support

Unless specified otherwise in the Task Order, the contractor shall fully support all unique software developed to support integrated solutions on this contract. The contractor shall be able to support all software revisions deployed or resident on the system, and sub-systems. The data rights ownership/licensing guidance is specified in Section I, Clause 252.227-7013 and 252.227-7015.

3.5.6 Government Furnished Equipment

Under some task orders, the Government will provide products acquired under this contract, other contracts, and GFE identified in site specific task orders. The contractor's design shall incorporate existing systems/subsystems to the maximum extent possible, based on cost/technical tradeoff analysis conducted during the engineering process to ensure security and resource sharing of both Government Furnished Equipment (GFE) and Contractor Furnished Equipment (CFE).

3.5.7 Host Nation Installations

As specified by the task order, the contractor shall use commercial telephone industry installation standards as documented in TL9000 compliant procedures for accomplishment of all installation work unless otherwise prohibited by host nation regulations and/or standards. The contractor shall determine if any host nation restrictions are applicable to any installation. The contractor shall be responsible for compliance with all host nation labor, safety, and environmental laws, regulations, and standards applicable at each installation location. If any additional permits or regulations apply, the contractor shall inform the Government and provide a proposal to initiate the appropriate documentation upon approval from the Government.

3.5.8 Tools and Test Equipment

Unless specified otherwise in the Task Order, the contractor shall provide all tools and test equipment required to perform any required product installation and maintenance as called for by the task order. All tools and test equipment shall remain the property of the contractor.

3.5.9 Warranty

Each product shall include a warranty as specified in Section I, Clause 52.246-17. In addition to FAR Clause 52.246-17, the following additional requirements apply: Users shall have highly reliable and maintainable network-centric products and system solutions to interoperate with the described environment. Components shall be maintainable by the user without voiding the warranty coverage. Components, which are expandable, shall be expandable by the user without voiding the warranty coverage provided the Government adheres to standard commercial practices in accomplishing the additions. Four types of warranty shall be provided:

1. System Warranty
2. Workmanship Warranty
3. Construction Warranty

4. Equipment Warranty

The warranty program shall provide for restoration of the system and repair of equipment in a timeframe specified in this contract, unless stated otherwise in the Task Order. The Contractor shall provide means to transport equipment and bear transportation charges and responsibility for equipment and repair personnel under warranty while in transit both to and from the Government site.

3.5.9.1 System Warranty

Unless specified otherwise in the Task Order, the Contractor shall provide a minimum one-year system warranty (some customers may require two or more years of warranty) to include coverage of all equipment supplied, installed, and integrated by the Contractor associated with delivery of infrastructure capabilities as defined by the AF enterprise architecture.. The system warranty shall ensure the full operational use of the system (CFE and GFE). The Contractor shall provide to the Government a 24-hour a day, 7-day a week point of contact for the system warranty. The system warranty shall begin at the time the final system DD Form 250 is signed by an authorized Government representative. The system warranty shall provide fault diagnosis, hardware and software repair, replacement, or redesign. The Contractor shall be responsible for diagnosing any problems, identifying malfunctioning equipment, and removing the equipment for repair. Prior approval shall be obtained from the authorized Government site representative before any GFE is removed from the system. Actual repair of malfunctioning GFE will be the responsibility of the Government, unless stated otherwise in the Task Order. The system warranty shall include transportation for both Contractor personnel and equipment to and from the specific site. The system warranty shall provide for a return to service any malfunctioning CFE component or applications within 48 clock hours CONUS, 96 clock hours OCONUS after notification by the authorized Government site representative unless stated otherwise by the Task Order. Costs for system warranty will be included within each Task Order proposal provided by the contractor as required by the Task Order.

In lieu of a system proposal that includes a traditional warranty, the Customer and Contractor may agree to a basic system proposal plus a block of hours for Contractor Maintenance Support Services. For many Contractors and Customers, this strategy has proven advantageous since traditional system warranties can be voided by today's dynamically changing networks forcing the Customer to maintain the network in a static environment during the warranty period. In addition, support is limited to a much narrower scope with a traditional system warranty whereas a Contractor Support Services contract is much more flexible in solving problems as they arise within the entire Network-Centric environment.

3.5.9.2 Workmanship Warranty

Unless specified otherwise in the Task Order, the Contractor shall provide a minimum one year workmanship warranty (some customers may require two or more years of warranty) on all work provided or integrated under this contract. The warranty shall ensure the full operational use of the system (CFE and GFE). The Contractor shall provide to the Government a 24-hour a day, 7 day a week point of contact for the workmanship warranty. The workmanship warranty shall begin at the time the final system DD Form 250 is signed by an authorized Government representative. The workmanship warranty shall provide fault diagnosis, hardware and software repair, replacement, or redesign. The Contractor shall be responsible for diagnosing and fault isolation of any problems, identifying the poor workmanship causing the problem and affecting an acceptable industry standard repair. Prior approval shall be obtained from the authorized Government site representative before any GFE is removed from the system. Actual repair of malfunctioning GFE will be the responsibility of the Government. The workmanship system warranty shall include transportation for Contractor personnel and bits, pieces, and parts to and from the specific site and the actual repair. The workmanship warranty shall provide for a return to service any malfunctioning CFE component or applications within 48 clock hours CONUS, 96 clock hours OCONUS after notification by the authorized Government site representative unless stated otherwise by the Task Order.

3.5.9.3 Construction Warranty

Unless specified otherwise in the Task Order, the Contractor shall provide a minimum one-year construction warranty (some customers may require two or more years of warranty) on all work provided or integrated under this contract. The warranty shall ensure the full operational use of all work. The Contractor shall provide to the Government a 24-hour a day, 7-day a week point of contact for the construction warranty. The construction warranty shall begin at the time the final system DD Form 250 is signed by an authorized Government representative. The construction warranty shall provide fault diagnosis, repair, replacement, or redesign. The Contractor shall be responsible for diagnosing and fault isolation of any degradation problems, identifying the poor construction-ship causing the problem and affecting an acceptable industry standard repair. Prior approval shall be obtained from the authorized Government site representative or Government QAP before affecting any repair. The construction warranty shall include transportation for Contractor personnel, bits, pieces, and parts to and from the specific site and the actual repair. The construction warranty shall provide for a return to service any degrading component or area within 48 clock hours CONUS, 96 clock hours OCONUS after notification by the authorized Government site representative unless stated otherwise by the Task Order.

3.5.9.4 Equipment Warranty

Unless specified otherwise in the Task Order, the Contractor shall provide standard, OEM pass through, extended or otherwise warranties for the periods specified in the Task Order for all hardware and software products, for both CONUS and OCONUS Government sites located worldwide. Repairs shall be accomplished within 48 clock hours CONUS, 96 clock hours OCONUS of receipt of the equipment warranty trouble call, unless stated otherwise by the Task Order, when the Contractor is performing the warranty repair. The warranty shall also provide for repair or replacement of equipment and repair and distribution of updated software to all users who purchased the software from this contract. Warranty coverage commences on the date of acceptance in block 21B of the DD Form 250, Commercial Invoice dated and signed, or SF 1449 dated and signed.

The Contractor shall provide a worldwide warranty repair solution capability for systems with qualified maintenance repair personnel and leverage existing OEM support infrastructures to the greatest extent possible. Repairs shall be performed at a time required by the Task/Delivery Order/Delivery Order or as coordinated by the Government QAP. The Contractor shall provide a 24-hour, 7-day a week warranty repair point of contact to receive calls from the Government. The Contractor shall provide the capability for toll-free telephone access for obtaining technical warranty repair support assistance from worldwide locations. The Contractor shall provide the tools, equipment and consumables required for personnel to complete their duties. The Contractor shall not invalidate the warranty provided on components purchased under this contract when the Government elects to perform user self maintenance and/or self-installation during the warranty period. Note: The Government will perform routine user-maintenance for all equipment both during and after the warranty period using separately orderable spare parts and/or repaired parts from this contract. The Government will only be liable for any damage to the equipment that results from Government Maintenance or additions to equipment that did not adhere to stand commercial practice. At no additional charge to the Government, the Contractor shall furnish, for hardware purchased under this contract, all repairs (labor and parts) for the duration of the warranty period. At a minimum, repair during the warranty period shall be equivalent to standard per-call maintenance during the principal period of maintenance (PPM) as specified in this PWS. The Government, at its option, may order additional repair coverage during the warranty period. The Governments purchase of additional repair coverage will be specified in details by the task order.

All parts replaced during the warranty period, in an unclassified environment, shall become the property of the Contractor. However, in classified environments the Government will maintain title of certain items. These items typically will be broken storage devices/mediums. All other parts may be returned to the contractor and the government will have up to 30 days to relinquish possession of the part.

The warranty shall not apply to maintenance required due to the fault or negligence of the Government. If Government negligence results in a repair call (either for equipment under warranty or per call

maintenance), the maximum repair time shall not apply and the Government will pay the price per hour specified in the contract for the hours rendered to complete the repair.

Only new or reconditioned parts shall be provided for repairs. If reconditioned parts are provided, the reconditioned parts shall carry the same warranty provisions as originally provided by the Contractor for new parts.

The Contractor guarantees to repair at no charge any malfunction which reoccurs within 90 calendar days of the initial repair. Warranty of Repair is a separate warranty from those described elsewhere in the contract.

If the Contractor elects to replace the malfunctioning hardware, the Contractor shall either provide the Government with a permanent replacement which shall contain a unique serial number or shall provide the Government with a temporary replacement with a unique serial number. If the Contractor elects to repair the malfunctioning hardware, the Contractor shall repair and return the repaired hardware to the Government at which time the temporary replacement shall be surrendered to the Contractor at the contractor's expense.

3.6 Maintenance

Unless specified otherwise in the Task Order, the contractor shall provide a worldwide maintenance solution capability (on-site and on-site per-call) for systems provided under this contract with qualified maintenance personnel, leveraging existing OEM support infrastructures to the greatest extent possible. Maintenance shall be performed at a time required by the task order or as coordinated by the Government QAP. The contractor shall provide a maintenance POC 24-hours-a-day, 7-days-a-week to receive calls from the Government. The specific maintenance requirements will be included in the task order and may include maintenance on systems/equipment not purchased under this contract. The contractor shall provide the capability for toll-free telephone and e-mail access for obtaining technical maintenance support assistance from worldwide locations. The contractor shall provide remote engineering and technical support via telephone or other remote system capabilities to assist maintenance personnel, analyze software, hardware, system problems and provide problem resolutions. This support may consist of routine maintenance, testing, diagnostic fault isolation, problem resolution, activation of features and/or equipment, software configurations and general information on features or capabilities of equipment. All requests for remote maintenance services shall be acted upon immediately upon receipt of the request and logged for inclusion in a service ticket status log of some type. The requesting unit shall be notified of the current status of corrective actions for hardware and software related problems that cannot be immediately corrected. The contractor shall provide the tools, equipment and consumables required for personnel to complete their duties.

3.6.1 Per-Call Maintenance/Standard Per-Call Maintenance (SPCM)

Unless specified otherwise in the Task Order, the contractor shall provide the Government with on-site per-call maintenance at the Government location for all cable plant and non-cable plant items. One instance of a per-call maintenance visit shall include the repair of all units identified at the time the Government notification call to the vendor was placed. The minimum charge per-call shall not exceed one (1) labor hour. The maximum charge per-call shall not exceed any limitations (labor and parts) indicated by the Government at the time of the maintenance call without prior approval from the designated Government official and as funded in the applicable task order. Hourly rate charges shall commence when the contractor representative reports to the Government site representative indicated in the call. Outside the Principal Period of Maintenance (OPPM) is defined as all time other than the PPM. If a call is placed during the OPPM or, if the Government wants the weekend/holiday time to count toward time to repair, then the OPPM rate may be applicable. The OPPM rate shall be applicable only if specifically requested by the Government at the time of the maintenance call and approved by the contracting officer.

3.6.2 Contractor Provided Non-Cable Plant, Non-Switching System SPCM

Unless specified otherwise in the Task Order, the contractor shall have, from the time of notification of equipment failure(s), a maximum of 8 hours to respond and 48 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for CONUS or 16 hours to respond and 96 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for OCONUS, unless otherwise stated in the task order.

3.6.3 Government Owned Equipment Non-Cable Plant, Non-Switching System SPCM

Unless specified otherwise in the Task Order, the contractor shall maintain the non-cable plant and non-switching systems (i.e., microwave radios, UPS equipment, multiplexers, antennas, LAN/CAN/MAN/WAN equipment, VTC equipment, phones, land mobile radios (LMR) Air Traffic Control and Landing Systems (ATCALS) and Meteorological and Navigational Aid (METNAV)) and those provided by the contractor under this contract. The contractor shall have, from the time of notification of equipment failure(s), a maximum of 8 hours to respond and 48 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for CONUS or 16 hours to respond and 96 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for OCONUS, unless otherwise stated in the task order.

3.6.4 Switching System SPCM

Unless specified otherwise in the Task Order, the contractor shall have, from the time of notification of equipment failure(s), a maximum of 4 hours to respond and 24 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for CONUS or 8 hours to respond and 72 hours to complete the repair(s) or replace (at the user's site) the malfunctioning system(s) or components for OCONUS, unless otherwise stated in the task order (i.e., non-ISDN/ISDN capable, DSS, etc.).

3.6.5 Cable Plant Maintenance

Unless specified otherwise in the Task Order, the contractor shall have, from the time of notification of equipment failure(s), a maximum of 2 hours to respond and 8 hours to complete the repair(s) or temporarily replace or patch the malfunctioning components for CONUS or 4 hours to respond and 12 hours to complete the repair(s) or temporarily replace or patch the malfunctioning components for OCONUS, unless otherwise stated in the task order. This maintenance shall include inside and outside cable plant maintenance. If the Government cannot provide drawings identifying placement of both inside and outside cable components to be maintained, then the Government will order a cable-plant survey via task order using the applicable labor categories; the contractor shall not be held accountable for any repair timeframes until the Government provides such drawings. The contractor shall also provide, on a pre-scheduled basis, preventative and routine maintenance required for optimized usage and life of the existing cable plant on a per-call basis. Within 24 hours of a repair or patch that restores service using a temporary repair, the contractor shall provide the Government with a draft list for components that were temporarily repaired until permanent replacements could be obtained. In this event, the contractor shall provide a firm-fixed-price proposal to the user for installation of the components identified in the draft list.

3.6.6 Rapid Response Per-Call Maintenance (RRPCM)

For RRPCM, the contractor shall have a maximum time of 2 hours from the time of notification of failure(s) to respond, unless stated otherwise in the task order. Repair time shall be within 12 hours.

3.6.7 System Maintenance

Unless specified otherwise in the Task Order, the contractor shall provide all supplies, parts, tools, and test equipment required for maintenance of the system and be responsible for total system maintenance.

3.6.8 Maintenance Charges

The per-call maintenance charge may include the CLIN labor rate, travel and ODCs, and transportation of any equipment, as applicable. Replaced faulty parts shall remain the property of the Government.

3.6.9 Maintenance Alternative

The Government may select maintenance alternative (standard or rapid per call response) with the issuance of a task order. The Government shall have the option to change the type of maintenance by giving the contractor thirty (30) days notice and a contract modification. Any change in type of maintenance will not be considered a partial termination of the task order for the convenience of the Government.

3.6.10 Relocation and Removal

The contractor shall relocate and remove systems as specified in the task order. The contractor shall be responsible for storage, staging and deployment of any equipment and materials provided as part of awarded task orders unless otherwise mutually agreed upon by the contractor and the Government. If removal of equipment and/or material is necessary, the contractor shall be responsible for disposal and shall comply with all applicable industry rules and regulations. Any equipment removal and/or disposal shall be coordinated with a designated official at the host base communications squadron.

3.7 Surge Requirements

Surge requirements include greater than expected requirements/workload for existing services within the scope of Task Orders awarded. Normally, surge requirements are of short duration, from one to six months. An example of a surge requirement is additional help desk or system maintenance support personnel required to handle temporarily increased workloads because of war or contingency. Surge requirements shall be accomplished as required under the Task Order.

3.8 Unified Capabilities Requirements (UCR)

Unless specified otherwise in the Task Order, the contractor shall report to the government through quarterly PMRs, how each solution awarded meets the Unified Capabilities Requirements (UCR). Detail shall include, but not be limited to the applicable MILDEP Service Level Architecture requirements. For example, vendor shall report how each awarded solution that is implemented at a United States Air Force Installation meets the United States Air Force i-TRM Architecture requirements. Similar report requirements including the ConstellationNet Architecture may also be requested at the Task Order level.

3.9 Special Asset Tagging

When required and defined by the Delivery/Task Order, the contractor shall provide special asset tags IAW DODI8320.04, Item Unique Identification (IUID) Standards for Tangible Personal Property, to include Unique Identification (UID) tagging requested by non-DoD customers.

4. CONTRACT REQUIREMENTS

The following contract requirements are applicable to all Task Orders.

4.1 Performance Reporting

The contractor's performance will be monitored by the Government and reported in Contractor Performance Assessment Reporting (CPARs). Performance standards shall include the contractor's ability to:

1. Provide quality products, incidentals and customer support;

2. Meet customer's agreed-upon timelines for scheduled delivery of items, warranty, and/or incidental services: Emergency/critical, Maintenance/Warranty – 24 x 7 x 365, and remote OCONUS, OCONUS vs. CONUS response times;
3. Provide satisfactory product repairs or advance replacement, as appropriate;
4. Provide timely and accurate reports;
5. Respond to the customer's requests for proposals and configuration assistance as identified in each delivery order;
6. Meet subcontracting goals.

4.2 Program Management

The contractor shall identify a Program Manager who shall be the primary representative responsible for all work awarded under this contract, participating in Program Management Reviews and ensuring all standards referenced herein are adhered to.

4.2.1 Services Delivery Summary

The contractor's performance at the contract level will be assessed quarterly by a process that measures success towards achieving performance objectives as defined in Table 1 below. The contractor will be responsible for delivering applicable performance data in a formal report titled Contractor Performance Report (Exhibit A, CDRL A004). The performance metrics reporting will be in accordance with AFI 63-124, Performance Based Services Acquisition and FAR Subpart 37.6, Performance-Based Acquisition. Service Level Agreements will be defined in each task order.

Desired Outcome		Performance Objective	Performance Threshold	
Overall Outcome	Specific Outcomes		Target	Tolerance
Compliance with NetOps and Infrastructure Solutions support requirements (delivery, quality)	Ensure compliance with NetOps and Infrastructure Solutions Customer Support requirements	Customer Support Availability for NetOps and Infrastructure Solutions provided under contract	24x7 Live Customer Support assistance is provided if required by task order	98% of the time
Compliance with NetOps and Infrastructure Solutions support requirements (delivery, quality)	Ensure completed task orders are invoiced and submitted to the Government in a timely manner.	Invoices are received by the Government from the contractor within 30 calendar days of completion of task order.	Documentation submitted IAW CDRL A001 verifies invoices were submitted on time	99% of the time
Compliance with NetOps and Infrastructure Solutions support requirements (delivery, quality)	Ensure delivery of all CDRLs by the contractor within the timeframe identified	Completed on time or ahead of schedule	CDRLs (IDIQ-level) are delivered as identified	98% of the time
Compliance with NetOps and Infrastructure Solutions support requirements (delivery, quality)	Ensure adherence to quality requirements of all CDRLs by the contractor	Quality CDRLs (conforming to design, specification or requirements) are delivered according to performance parameters	Quality CDRLs (IDIQ-level) are delivered as identified	98% of the time

Compliance with NetOps and Infrastructure Solutions Requirements	Ensure NetOps and Infrastructure Solutions provided by the contractor are fulfilled within the timeframe identified by the task order	Task orders are completed on time or ahead of schedule	Task orders are completed on schedule as agreed upon with Government customer	98% of the time
In addition, small business companion contract awardees that elect to take advantage of provisions outlined in clauses H139 & H140 must also comply with the following outcome: Compliance with Small Business Subcontracting Requirements	Contractor meets small business requirements	SB requirements listed in Clause H133 are met	Documentation submitted, Exhibit B, CDRL B002, verifies SB requirements were met	100% of the time

Table 1. Minimum Required Performance Metrics

4.2.2 Task Order Management.

The contractor shall establish and provide a qualified workforce capable of performing the required tasks. The workforce may include a project/task order manager who will oversee all aspects of the task order. The contractor shall use key performance parameters to monitor work performance, measure results, ensure delivery of contracted product deliverables and services, support management and decision-making and facilitate communications. The contractor shall identify risks, resolve problems and verify effectiveness of corrective actions. The contractor shall institute and maintain a process that ensures problems and action items discussed with the Government are tracked through resolution and shall provide timely status reporting. Results of contractor actions taken to improve performance should be tracked, and lessons learned incorporated into applicable processes. The contractor shall establish and maintain a documented set of disciplined, mature, and continuously improving processes for administering all contract and task order efforts with an emphasis on cost-efficiency, schedule, performance, responsiveness, and consistently high-quality delivery.

4.2.3 Configuration and Data Management

The Contractor shall establish, maintain, and administer an integrated data management system for collection, control, publishing, and delivery of all program documents. The data management system shall include but not be limited to the following types of documents: CDRLs, White Papers, Status Reports, Audit Reports, Agendas, Presentation Materials, Minutes, Contract Letters, and Task Order Proposals. The contractor shall provide the Government with electronic access to this data, including access to printable reports. The contractor shall have an approved property control system IAW FAR 45, DFARS 245, and approved procedures to document and track all GFM and Government Furnished Equipment (GFE). The contractor shall provide as-built documentation including, but not limited to, drawings and diagrams of the solution provided under each Task Order identifying specific cards in a chassis/shelf. The as-built documentation shall also include layout drawings, power drawings/specifications, floor plans and engineering specifications generated in support of the installation of the system. Documentation shall also include equipment listing with serial/model numbers, and manufacturer specifications.

4.2.4 Records, Files and Documents

All physical records, files, documents, and work papers, provided and/or generated by the Government and/or generated for the Government in performance of this PWS, maintained by the Contractor which are to be transferred or released to the Government or successor Contractor, shall become and remain Government property and shall be maintained and disposed of IAW AFMAN 33-363, Management of Records; AFI 33-364, Records Disposition – Procedures and Responsibilities; the Federal Acquisition Regulation, and/or the Defense Federal Acquisition Regulation Supplement, as applicable. Nothing in this section alters the rights of the Government or the Contractor with respect to patents, data rights, copyrights, or any other intellectual property or proprietary information as set forth in any other part of this PWS or the Network Operation (NetOps) and Infrastructure Solutions contract of which this PWS is a part (including all clauses that are or shall be included or incorporated by reference into that contract).

4.2.5 Security Management

4.2.5.1 Transmission of Classified Material

The contractor shall transmit and deliver classified material/reports IAW the National Industrial Security Program Operations Manual (NISPOM) and the National Industrial Security Program Operating Manual (DoD 5220.22-M). These requirements shall be accomplished as specified in the Task Order.

4.2.5.2 Personnel Security

Individuals performing work under these task orders shall comply with applicable program security requirements as stated in the task order. NETCENTS-2 will support the following levels of security: Unclassified; Unclassified, But Sensitive; Secret (S); Secret Sensitive Compartmented Information (S/SCI); Top Secret (TS); and Top Secret Sensitive Compartmented Information (TS/SCI)

Certain task orders may require personnel security clearances up to and including Top Secret, and certain task orders may require all employees to be United States citizens. The security clearance requirements will depend on the security level required by the proposed task order. The task orders may also require access to sensitive compartmented information (SCI) for which SCI eligibility will be required. Contractors shall be able to obtain adequate security clearances prior to performing services under the task order. The Contract Security Classification Specification (DD Form 254) will be at the basic contract and task order level and will encompass all security requirements. All contractors located on military installations shall also comply with Operations Security (OPSEC) requirements as set forth in DoD Directive 5205.02, Operations Security Program and AFI 10-701, Operations Security. In accordance with DoD 5200.2-R, Personnel Security Program (Jan 87), DoD military, civilian, consultants, and contractor personnel using unclassified automated information systems, including e-mail, shall have, at a minimum, a completed favorable National Agency Check plus Written Inquiries (NACI).

The types of Personnel Security Investigations (PSI) required for the contractor vary in scope of investigative effort depending upon requirements of the Government and/or conditions of the contract/task order. In cases where access to systems such as e-mail is a requirement of the Government, application/cost for the PSI shall be the responsibility of the Government. In cases where access to systems is as a condition of the contract/task order, application/cost for the appropriate PSI shall be the responsibility of the contractor. In such instances the contractor shall diligently pursue obtaining the appropriate PSI for its employees prior to assigning them to work any active task order. Acquisition planning must consider antiterrorism (AT) measures when the effort to be contracted could affect the security of operating forces (particularly in-transit forces), information systems and communications systems IAW DoD Instructions 2000.16 Anti Terrorism Standards.

4.2.5.3 Protection of System Data

Unless otherwise stated in the task order, the contractor shall protect system design-related documents and operational data whether in written form or in electronic form via a network in accordance with all applicable policies and procedures for such data, including DOD Regulations 5400.7-R and 5200.1-R to include latest changes, and applicable service/agency/ combatant command policies and procedures. The contractor shall protect system design related documents and operational data at least to the level

provided by Secure Sockets Layer (SSL)/Transport Security Layer (TSL)-protected web site connections with certificate and or userid/password-based access controls. In either case, the certificates used by the Contractor for these protections shall be DoD or IC approved Public Key Infrastructure (PKI) certificates issued by a DoD or IC approved External Certification Authority (ECA) and shall make use of at least 128-bit encryption.

4.2.6 On-Site Task Approval Process

The contractor shall, for CONUS tasks (7-day notice) and for OCONUS tasks (14-day notice), notify the on-site QAP in writing before a requirements analysis/conceptual design visit, site survey, and other on-site tasks are to be performed. The following information must be provided; Names of Employees, SSAN, Security Clearance, Location, Project Number, On/About Date Planned for On-Site Work, Anticipated Duration of Visit, Support Required.

4.2.7 Travel Requirements

The contractor shall coordinate specific travel arrangements with the individual Contracting Officer or Contracting Officer's Representative to obtain advance, written approval for the travel about to be conducted. The contractor's request for travel shall be in writing and contain the dates, locations and estimated costs of the travel in accordance with the basic contract clause H047.

If any travel arrangements cause additional costs to the task order that exceed those previously negotiated, written approval by CO is required, prior to undertaking such travel. Costs associated with contractor travel shall be in accordance with FAR Part 31.205-46, Travel Costs. The contractor shall travel using the lower cost mode transportation commensurate with the mission requirements. When necessary to use air travel, the contractor shall use the tourist class, economy class, or similar accommodations to the extent they are available and commensurate with the mission requirements. Travel will be reimbursed on a cost reimbursable basis; no profit or fee will be paid.

4.2.8 Other Direct Cost (ODC)

The contractor shall identify ODC and miscellaneous items as specified in each task order. No profit or fee will be added; however, DCAA approved burden rates are authorized.

5. DELIVERABLES

The Government requires all deliverables that include Scientific and Technical Information (STINFO), as determined by the Government, be properly marked IAW DoD Directive 5230.24 and AFI 61-204 prior to initial coordination or final delivery. Failure to mark deliverables as instructed by the government will result in non-compliance and non-acceptance of the deliverable. The contractor will include the proper markings on any deliverable deemed STINFO regardless of media type, stage of completeness, or method of distribution. Therefore, even draft documents containing STINFO and STINFO sent via e-mail require correct markings. Additionally, as required by individual Task/Delivery Orders, the contractor shall formally deliver as a CDRL all intellectual property, software, licensing, physical records, files, documents, working papers, and other data for which the Government shall treat as deliverable.

The contractor shall provide reports identified below. The format for each can be found in Section J, Exhibit A.

CDRL A001: Delivery Order Status Report (DOSR),
CDRL A002: Fiscal Year Order and Financial Status,
CDRL A003: Annual Execution Review to AFPEO/CM
CDRL A004: Contractor Performance Report
CDRL A005: Contractor Manpower Reporting
CDRL A006: Reporting Compliance with Limitation on Subcontracting

In addition, small business companion contract awardees that elect to take advantage of provisions outlined in clauses H139 and H140 shall provide the data identified below. The format for each can be found in Section J, Exhibit B.

CDRL B001: Small Business Graduate Data Submission Instructions
CDRL B002: Small Business Subcontracting Requirements (Proposed vs Actuals)
CDRL B003: Small Business Participation

Manpower Reporting

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the NETOPS SB Companion via a secure data collection site. The contractor is required to completely fill in all required data fields at <http://www.ecmra.mil>.

Reporting inputs will be for the labor executed during the period of performance for each Government fiscal year (FY), which runs 1 October through 30 September. While inputs may be reported any time during the FY, all data shall be reported no later than 31 October* of each calendar year. Contractors may direct questions to the CMRA help desk.

Uses and Safeguarding of Information: Information from the secure web site is considered to be proprietary in nature when the contract number and contractor identity are associated with the direct labor hours and direct labor dollars. At no time will any data be released to the public with the contractor name and contract number associated with the data.

6. ELECTRONIC ORDERING

The vast majority of NETCENTS-2 products, services, or solutions will be synopsisized using AFWAY system. The NETCENTS contractors shall manage, report, and provide indicative data/status on all delivery orders. The contractor computer-based system shall interface with the Government system and any future replacement system or technical refresh to the Government existing legacy systems. As the Government anticipates improving the web-based NETCENTS reporting capabilities and processes in the future, NETCENTS-2 contractors shall adjust and comply with Government efforts to standardize and modernize Government e-commerce capabilities in order to establish and improve interactive solicitation (pre and post award) processes and reporting. General policies and procedures will be established and published and shall be followed by the Contractor when transmitting, receiving, and processing NETCENTS-2 business documents.

7. QUALITY PROCESSES

As a minimum, the prime contractor shall be appraised at ISO 9001:2000 or ISO 9001:2008 (or higher) or ISO/IEC 20000 or CMMI Development Level 2 (or higher) using the Software Engineering Institute's (SEI) SCAMPI A method by an SEI-authorized lead appraiser, or comparable documented systems engineering processes, for the entire performance period of the contract, inclusive of options. Formal certifications must be held at the prime offeror's organizational level performing the contract. If not ISO certified or SEI appraised, acceptable comparable Systems Engineering (SE) processes shall be maintained for the entire performance period of the contract, inclusive of options. These processes include: requirements management; configuration management; development of specifications; definition and illustration of architectures and interfaces; design; test and evaluation/verification and validation; deployment and maintenance. The Government reserves the right to audit and/or request proof of these comparable quality processes for the entire performance period of the contract, inclusive of options.

In addition, small business companion contract awardees that elect to take advantage of provisions outlined in clause H139 must comply with the quality processes requirements. This means that at the time of award and as a minimum, the prime contractor shall be appraised at ISO 9001:2000 or ISO 9001:2008 (or higher) or ISO/IEC 20000 or CMMI Development Level 2 (or higher) using the Software Engineering

Institute’s (SEI) SCAMPI A method by an SEI-authorized lead appraiser and must be held at the prime offeror’s organizational level performing the contract for the entire performance period of the contract, inclusive of options. Evidence of comparable Systems Engineering (SE) processes will not be accepted.

8. APPLICABLE DOCUMENTS AND STANDARDS

The following certifications, specifications, standards, policies and procedures in Table 2 represent documents and standards that may be placed on individual contract task orders. Individual task orders may impose additional standards to those required at the contract level. The list below is not all-inclusive and the most current version of the document in the AF Standard Center of Excellence Repository (SCOER) referenced in section 3.5.1 at the time of task order issuance will take precedence. Other documents required for execution of tasks issued under NETCENTS-2 will be cited in the relevant Task Order, such as specific FIPS, NIST, or MIL-Standards. Web links are provided wherever possible.

NETWORK OPERATIONS AND INFRASTRUCTURE SOLUTIONS (COMPLIANCE)		
Standard	URL	Description
1. AFI 10-206 Operational Reporting	http://static.e-publishing.af.mil/production/1/af_a3_5/publication/afi10-206/afi10-206.pdf	This instruction implements Air Force Policy Directive (AFPD) 10-2, Readiness. It applies to all US Air Force Major Commands (MAJCOM), Air National Guard (ANG), Air Force Reserve Command (AFRC), Field Operating Agencies (FOA), and Direct Reporting Units (DRU). Prior to mobilization/activation AF, ANG, and AFRC units will address the HQ AF Service Watch Cell (AFSWC) on all applicable record copy Air Force Operational Reports (AF OPREP-3). It establishes and describes the Air Force Operational Reporting System. It explains the purpose and gives instructions for preparing and submitting these reports. Refer recommended changes and questions about this publication to AF/A3O, 1480 Air Force Pentagon, Washington, D.C. 20330-1480, Office of Primary Responsibility (OPR) using the AF Form 847, Recommendation for Change of Publication. MAJCOMs are authorized to supplement this Air Force Instruction (AFI) instead of repeating instructions in separate directives.
2. AFI 10-208 Air Force Continuity of Operations (COOP) Program.	http://static.e-publishing.af.mil/production/1/af_a3_5/publication/afi10-208/afi10-208.pdf	This Instruction implements Air Force Policy Directive (AFPD) 10-2, Readiness, and is consistent with AFPD 10-8, Homeland Security. It describes policy and requirements for implementing DODI 3020.42, Defense Continuity Plan Development, and DODI O-3020.43, Emergency Management and Incident Command of the Pentagon Facilities; DODI O-3000.08 Balanced Survivability Assessments (BSAs);and O-DODI 5110.11, Raven Rock Mountain Complex (RRMC).

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Standard	URL	Description
3. AFI 10-601 Operational Capability Requirements Development	http://static.e-publishing.af.mil/production/1/af_a3_5/publication/afi10-601/afi10-601.pdf	The primary intent of this instruction is to facilitate timely development and fielding of affordable and sustainable operational systems needed by the combatant commander. The primary goal is to fulfill stated defense strategy needs with effects based, capabilities-focused materiel and non-materiel solutions. These solutions must be well integrated to provide suitable, safe, and interoperable increments of capability that are affordable throughout the life cycle.
4. AFI 10-701 Operations Security (OPSEC)	http://static.e-publishing.af.mil/production/1/af_a3_5/publication/afi10-701/afi10-701.pdf	This publication provides guidance for all Air Force personnel (military and civilian) and supporting contractors in implementing, maintaining and executing OPSEC programs. It describes the OPSEC process and discusses integration of OPSEC into Air Force plans, operations and support activities.
5. AFI 31-401 Information Security Program management	http://static.e-publishing.af.mil/production/1/saf_aa/publication/afi31-401/afi31-401.pdf	This publication implements Air Force Policy Directive (AFPD) 31-4, Information Security. It prescribes and explains how to manage and protect unclassified controlled information and classified information. Use this instruction with Executive Order (EO) 12958, as amended, Classified National Security Information, 25 March 2003; Office of Management and Budget (OMB), Information Security Oversight Office (ISOO) Directive Number 1, Classified National Security Information, Executive Order 12829, National Industrial Security Program (NISP), DOD Manual 5220.22, National Industrial Security Program Operating Manual, January 1995; and, Department of Defense (DOD) 5200.1-R, Information Security Program, 14 Jan 97, for the management of the Air Force Information Security Program. Additional references include DOD Instruction (DODI) 5240.11, Damage Assessments, 23 Dec 91; DOD Directive (DODD) 5210.83, Unclassified Controlled Nuclear Information (UCNI), 15 Nov 91; Air Force Policy Directive (AFPD) 31-4, Information Security. This instruction is applicable to contractors as prescribed in AFI 31-601, Industrial Security Program. All these references are listed at the end of each paragraph where applicable. This instruction is not to be used as a stand-alone document. HQ USAF/XOS-F is delegated approval authority for revisions to this AFI.

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	Standard	URL	Description
6.	AFI 31-501 Personnel Security Program Management	http://static.e-publishing.af.mil/production/1/af_a4_7/publication/afi31-501/afi31-501.pdf	Use this instruction with the DOD Regulation 5200.2-R and AFPD 31-5 to implement the personnel security program. This instruction requires collecting and maintaining information protected by the Privacy Act of 1974 authorized by Executive Orders 9397, 9838, 10450, 11652, and 12968; and 5 United States Code (U.S.C.) 7513, 7532, 7533; 10 U.S.C. 8013.
7.	AFI 32-10112 Installation Geospatial Information and Services (Installation GI&S)	http://static.e-publishing.af.mil/production/1/af_a4_7/publication/afi32-10112/afi32-10112.pdf	This instructions convey guidance and procedures allowing commanders and Air Force professionals to maintain a flow of timely geospatial information with due regard for national security, accuracy, and privacy. Describe Geospatial Information and Services (GI&S) support for the installation and facilities mission, hereafter referred to as the GeoBase Program or GeoBase. Explain the organization and execution of the GeoBase Program for all levels of command. GI&S is the key platform for cross functional integration, and to that end this AFI provides guidance for those organizations seeking to integrate with the Geo-Base Service. Provide guidance and procedures for all Air Force military and civilian personnel that perform or utilize GeoBase functions, products or systems, including those in the Air National Guard and U.S. Air Force Reserve. This instruction is not intended to overlap or supersede GI&S guidance found in AFI 14-205, Geospatial Information and Services, 4 May 2004. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 37-123, Management of Records and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at https://afrims.amc.af.mil/ . The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.
8.	AFI 33-332 Air Force Privacy And Civil Liberties Program	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-332/afi33-332.pdf	Records that are retrieved by name or other personal identifier of a U.S. citizen or alien lawfully admitted for permanent residence are subject to Privacy Act requirements and are referred to as a Privacy Act system of records. The Air Force must publish SORNs in the Federal Register, describing the collection of information for new, changed or deleted systems to inform the public and give them a 30 day opportunity to comment before implementing or changing the system.

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Standard		URL	Description
9.	AFI 33-364 Records Disposition Procedures and Responsibilities	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-364/afi33-364.pdf	Records Disposition Procedures
10.	AFI 33-401 Air Force Architecting	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-401/afi33-401.pdf	This Air Force Instruction (AFI) implements Air Force Policy Directive (AFPD) 33-4, Enterprise Architecting. This instruction describes the federation of Air Force architectures and its concept for federated architecture development, its associated business rules, governance, and the roles and responsibilities for appropriate Air Force organizations.
11.	AFI 33-580 Spectrum Management	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-580/afi33-580.pdf	This instruction establishes guidance and procedures for Air Force-wide management and use of the electromagnetic spectrum and implements Department of Defense Instruction (DoDI) 4650.01, Policy and Procedures for Management and Use of the Electromagnetic Spectrum; DoDI 8320.05, Electromagnetic Spectrum Data Sharing; National Telecommunications and Information Administration (NTIA) Manual of Regulations and Procedures for Federal Radio Frequency Management; Air Force Policy Directive (AFPD) 33-5, Warfighting Integration; and the procedures established by the Joint Staff J65A United States Military Communications-Electronics Board (USMCEB).
12.	AFI 33-590 Radio Management	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-590/afi33-590.pdf	This standard specifies requirements for types of land mobile radios, frequency ranges and encryption standards. It provides requirements processing, validation, and handling procedures for classified and unclassified Personal Wireless Communication Systems (PWCS), and training. It provides procedures for the management, operation, and procurement of commercial wireless service for all PWCS.

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	Standard	URL	Description
13.	AFI 36-2201 Air Force Training Program	http://static.e-publishing.af.mil/production/1/af_a1/publication/afi36-2201/afi36-2201.pdf	<p>This Air Force Instruction (AFI) applies to Total Force – Active Duty, Air Force Reserve, Air National Guard (ANG), and Department of Air Force Civilian. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at https://www.my.af.mil/afrims/afrims/afrims/rims.cfm. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF IMT 847, Recommendation for Change of Publication; route AF IMT 847s from the field through Major Commands (MAJCOMS) publications/forms managers.</p>
14.	AFI 61-204 Disseminating Scientific And Technical Information	http://static.e-publishing.af.mil/production/1/saf_aq/publication/afi61-204/afi61-204.pdf	<p>This instruction updates the procedures for identifying export-controlled technical data and releasing export-controlled technical data to certified recipients and clarifies the use of the Militarily Critical Technologies List. It establishes procedures for the disposal of technical documents.</p>
15.	AFI 99-103 Capabilities-Based Test And Evaluation	http://static.e-publishing.af.mil/production/1/af_te/publication/afi99-103/afi99-103.pdf	<p>It describes the planning, conduct, and reporting of cost effective test and evaluation (T&E) programs as an efficient continuum of integrated testing known as seamless verification. The overarching functions of T&E are to mature system designs, manage risks, identify and help resolve deficiencies as early as possible, and ensure systems are operationally mission capable (i.e., effective and suitable). The Air Force T&E community plans for and conducts integrated testing as an efficient continuum known as seamless verification in collaboration with the requirements and acquisition communities.</p>

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(COMPLIANCE)**

	Standard	URL	Description
16.	AFMAN 33-152 User Responsibilities and Guidance for information Systems	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afman33-152/afman33-152.pdf	This instruction implements Air Force Policy Directive (AFPD) 33-1, Information Resources Management, AFPD 33-2, Information Assurance (IA) Program, and identifies policies and procedures for the use of cyberspace support systems/services and compliance requirements of Secretary of the Air Force, Chief of Warfighting Integration and Chief Information Officer (SAF/CIO A6) managed programs. These programs ensure availability, interoperability, and maintainability of cyberspace support systems/services in support of Air Force mission readiness and warfighting capabilities. This manual applies to all Air Force military, civilians, contractor personnel under contract by the Department of Defense (DOD), and other individuals or organizations as required by binding agreement or obligation with the Department of the Air Force. This manual applies to the Air National Guard (ANG) and the Air Force Reserve Command (AFRC).
17.	AFMAN 33-153 Information Technology (IT) Asset Management (ITAM)	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afman33-153/afman33-153.pdf	This Air Force Manual (AFMAN) implements Executive Order (E.O.) 13103, Computer Software Piracy and Air Force Policy Directives (AFPD) 33-1, Cyberspace Support and supports AFPD 33-2, Information Assurance (IA) Program; AFPD 63-1/20-1, Integrated Life Cycle Management; and AFPD 10-6, Capabilities-Based Planning & Requirements Development. This AFMAN provides the overarching guidance and direction for managing IT hardware and software. The hardware management guidance identifies responsibilities for supporting Air Force (AF) IT hardware (IT assets) and maintaining accountability of Personal Wireless Communications Systems (PWCS) including cellular telephones and pagers. The software management guidance identifies responsibilities for management of commercial off-the-shelf (COTS) and AF-unique software acquired/developed by the AF (other than software internal to a weapon system; see AFPD 63-1/20-1, Integrated Life Cycle Management).
18.	AFMAN 33-282 Computer Security (COMPUSEC)	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afman33-282/afman33-282.pdf	This AFMAN implements Computer Security in support of AFPD 33-2, Information Assurance Program and AFI 33-200, IA Management Computer Security (COMPUSEC) is defined within the IA Portion of AFI 33-200.

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19.	AFMAN 33-363 Management of Records	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afman33-363/afman33-363.pdf	This manual implements Department of Defense (DoD) Directive (DoDD) 5015.2, DoD Records Management Program, and Air Force Policy Directive (AFPD) 33-3, Information Management. It establishes the requirement to use the Air Force Records Information Management System (AFRIMS); establishes guidelines for managing all records (regardless of media); and defines methods and the format for record storage, file procedures, converting paper records to other media or vice versa, and outlines the minimum to comply with records management legal and policy requirements.
20.	AFPD 33-3 Information Management	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afpd33-3/afpd33-3.pdf	This policy directive establishes Air Force policy for the management of information assets (all forms of data and content), across all AF information sources, as both a strategic resource and corporate asset supporting the warfighter during mission and support operations.
21.	AFPD 33-4 Information Technology Governance	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afpd33-4/afpd33-4.pdf	This directive establishes the AF policy for IT Governance to fulfill the AF CIO responsibilities established in federal laws and DoD issuances and the AF IT Governance Executive Board, which will oversee existing IT investment councils, boards, and working groups throughout the IT lifecycle to effectively and efficiently deliver capabilities to users. This directive focuses on aligning IT policy, CIO policy, and capabilities management with doctrine, statutory, and regulatory guidelines that govern accountability and oversight over IT requirements to resource allocation, program development, test, and deployment and operations under the direction and authority of the AF IT Governance Executive Board chaired by the AF CIO.
22.	DoDI 8510.01 - DoD Risk Management Framework (RMF) for DoD Information Technology	http://www.dtic.mil/whs/directives/corres/pdf/851001_2014.pdf	Provides procedural guidance for the reciprocal acceptance of authorization decisions and artifacts within DoD, and between DoD and other federal agencies, for the authorization and connection of information systems (ISs). Revised from 2007 version on 12 March 2014.
23.	DoDI 8500.01 – Cyber Security (CS)	http://www.dtic.mil/whs/directives/corres/pdf/850001_2014.pdf	The purpose of the Defense Cybersecurity program is to ensure that IT can be used in a way that allows mission owners and operators to have confidence in the confidentiality, integrity, and availability of IT and DoD information, and to make choices based on that confidence

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24. DoDI 8551.01 – Ports, Protocols and Services Management	http://www.dtic.mil/whs/directives/corres/pdf/855101p.pdf	
25. CJCSI 6211.02D – Defense Information Systems Network (DISN) Responsibilities	http://www.dtic.mil/cjcs_directives/cdata/unlimit/6211_02.pdf	This instruction establishes policy and responsibilities for the connection of information systems (ISs) (e.g., applications, enclaves, or outsourced processes) and unified capabilities (UC) products to the DISN provided transport (including data, voice, and video) and access to information services transmitted over the DISN (including data, voice, video, and cross-domain).
26. DFARS 252.227-7013 Rights in Technical Data Non-Commercial Items	http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/dfars/Dfars252_227.htm#P696_47162	Provides guidelines for rights in technical data on non-commercial items
27. Department of Defense Architecture Framework (DoDAF) Ver2.02 Aug 2010	http://dodcio.defense.gov/dodaf20.aspx	The Department of Defense Architecture Framework (DoDAF), Version 2.0 is the overarching, comprehensive framework and conceptual model enabling the development of architectures to facilitate the ability of Department of Defense (DoD) managers at all levels to make key decisions more effectively through organized information sharing across the Department, Joint Capability Areas (JCAs), Mission, Component, and Program boundaries. The DoDAF serves as one of the principal pillars supporting the DoD Chief Information Officer (CIO) in his responsibilities for development and maintenance of architectures required under the Clinger-Cohen Act. DoDAF is prescribed for the use and development of Architectural Descriptions in the Department. It also provides extensive guidance on the development of architectures supporting the adoption and execution of Net-centric services within the Department.
28. DFARS 252.227-7014 Rights in Non-commercial Computer Software	http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/dfars/Dfars252_227.htm#P696_47162	Guidance on rights in technical data and computer software small business innovation research (SBIR) program.
29. DFARS 252.227-7015 Technical Data Commercial Items	http://www.acq.osd.mil/dpap/dars/dfars/html/current/227_71.htm#227.7102-2	Provides the Government specific license rights in technical data pertaining to commercial items or processes. DoD may use, modify, reproduce, release, perform, display, or disclose data only within the Government. The data may not be used to manufacture additional quantities of the commercial items and, except for emergency repair or overhaul and for covered Government support contractors, may not be released or disclosed to, or used by, third parties without the contractor's written permission.

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30. DFARS 252.227-7017 Identification and Assertion of Use, Release, or Disclosure Restrictions	http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/dfars/Dfars252_227.htm#P1182_92447	Provides requirements for the identification and assertion of technical data.
31. DoD 5220.22-M, National Industrial Security Program Operating Manual	http://www.dtic.mil/whs/directives/corres/pdf/522022m.pdf	Provides baseline standards for the protection of classified information released or disclosed to industry in connections with classified contracts under the National Industrial Security Program.
32. DoD Discovery Metadata Specification (DDMS)	https://metadata.ces.mil/dse/irs/DDMS/	Visibility, accessibility, and understandability are the high priority goals of the DoD Net-Centric Data Strategy. Of these goals, visibility and discovery are intimately linked. Visibility of a resource is, in a practical sense, useless, if the resource is not easily discoverable. With the express purpose of supporting the visibility goal of the DoD Net-Centric Data Strategy, the DDMS specifies a set of information fields that are to be used to describe any data or service asset, i.e., resource, that is to be made discoverable to the Enterprise, and it serves as a reference for developers, architects, and engineers by laying a foundation for Discovery Services.
33. DoD Manual 5200.01, DoD Information Security Program: Overview, Classification, and Declassification, V1-V4	http://www.dtic.mil/whs/directives/corres/pdf/520001_vol1.pdf	The purpose of this manual is to implement policy, assign responsibilities, and provide procedures for the designation, marking, protection, and dissemination of controlled unclassified information (CUI) and classified information, including information categorized as collateral, sensitive compartmented information (SCI), and Special Access Program (SAP).
34. TIA/EIA-TSB-72, Centralized Optical Fiber Cabling Guidelines	http://www.tiaonline.org/	Must be purchased. ANSI/TIA/EIA-568-B series standard incorporates and refines the technical content of TSB67, TSB72, TSB75, TSB95 and TIA/EIA-568-A-1, A-2, A-3, A-4 and A-5.
35. DoD Mobile Application Strategy	http://www.defense.gov/news/dodmobilitystrategy.pdf	It is intended to align the progress of various mobile device pilots and initiatives across DoD under common objectives, ensuring that the warfighter benefits from such activities and aligns with efforts composing the Joint Information Environment.

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	Standard	URL	Description
36.	DoD CIO Net-Centric Data Strategy	http://dodcio.defense.gov/Portals/0/Documents/Net-Centric-Data-Strategy-2003-05-092.pdf	This Strategy lays the foundation for realizing the benefits of net centrality by identifying data goals and approaches for achieving those goals. To realize the vision for net-centric data, two primary objectives must be emphasized: (1) increasing the data that is available to communities or the Enterprise and (2) ensuring that data is usable by both anticipated and unanticipated users and applications. (Source: Department of Defense Net-Centric Data Strategy, DoD CIO, 9 May 2003)
37.	DoD CIO Net-Centric Services Strategy	http://dodcio.defense.gov/Portals/0/documents/DoD_NetCentricServicesStrategy.pdf	The DoD Net-Centric Services Strategy (NCSS) [R1313] builds upon the DoD Net-Centric Data Strategy's (May 2003) goals of making data assets visible, accessible, and understandable. The NCSS establishes services as the preferred means by which data producers and capability providers can make their data assets and capabilities available across the DoD and beyond. It also establishes services as the preferred means by which consumers can access and use these data assets and capabilities.
38.	DoDD 5205.02E, Operations Security (OPSEC) Program	http://www.dtic.mil/whs/directives/corres/pdf/520502e.pdf	Underscores the importance of OPSEC and how it is integrated as a core military capability within Information Operations (IO) that must be followed in daily application of military operations.
39.	DoDD 8000.01 Management of the Department of Defense Information Enterprise	http://www.dtic.mil/whs/directives/corres/pdf/800001p.pdf	Provides direction on creating an information advantage for DoD personnel and mission partners, and establishing and defining roles for CIOs at various levels within the Department of Defense
40.	DoDD 8100.02, Use of Commercial Wireless Devices, Services, and Technologies in the DoD Global Information Grid (GIG)	http://www.dtic.mil/whs/directives/corres/pdf/810002p.pdf	Establishes policy and assigns responsibilities for the use of commercial wireless devices, services, and technologies in the DoD Global Information Grid (GIG) (DoD Directive 8100.1, "Global Information Grid (GIG) Overarching Policy," September 19, 2002). Directs the development and use of a Knowledge Management (KM) process to promote the sharing of wireless technology capabilities, vulnerabilities, and vulnerability mitigation strategies throughout the Department of Defense. Promotes joint interoperability using open standards throughout the Department of Defense for commercial wireless services, devices, and technological implementations.

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41. DoDI 1100.22 Policy and Procedures For Determining Workforce Mix	http://www.dtic.mil/whs/directives/corres/pdf/110022p.pdf	Provides manpower mix criteria and guidance for risk assessments to be used to identify and justify activities that are inherently governmental (IG); commercial (exempt from private sector performance); and commercial (subject to private sector performance).
42. AFI 63-101/20-101, Integrated Life Cycle Management	http://static.e-publishing.af.mil/production/1/saf_aq/publication/afi63-101_20-101/afi63-101_20-101.pdf	It identifies elements of Air Force systems engineering (SE) practice and management required to provide and sustain, in a timely manner, cost-effective products and systems that are operationally safe, suitable, and effective.
43. DoDI 3222.03, DoD Electromagnetic Environmental Effects (E3) Program	http://www.dtic.mil/whs/directives/corres/pdf/322203p.pdf	Reissue DoD Directive (DoDD) 3222.3 (Reference (a) as a DoD instruction (DoDI) in accordance with the authority in DoDD 5144.02 (Reference (b)). The mission of the DoD E3 IPT is to promote communication, coordination, commonality, and synergy among the DoD Components for E3-related matters.
44. DoDD 5230.24, Distribution Statements on Technical Documents	http://www.dtic.mil/whs/directives/corres/pdf/523024p.pdf	This instruction updates policies and procedures for marking technical documents, including production, engineering, and logistics information, to denote the extent to which they are available for distribution, release, and dissemination without additional approvals or authorizations.
45. AFI 33-200, Information Assurance	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-200/afi33-200.pdf	This AFI provides general direction for implementation of IA and management of IA programs according to AFRPD 33-2. Compliance ensures appropriate measures are taken to ensure the availability, integrity, and confidentiality of Air Force ISs and the information they process. Using appropriate levels of protection against threats and vulnerabilities help prevent denial of service, corruption, compromise, fraud, waste, and abuse.
46. AFI 33-210, AF Certification and Accreditation (C&A) Program (AFCAP)	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-210/afi33-210.pdf	AF C&A program guidance

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47.	DODI 8330.01 Interoperability of Information Technology (IT), Including National Security Systems (NSS)	http://www.dtic.mil/whs/directives/corres/pdf/833001p.pdf	Establishes policy, assigns responsibilities, and provides direction for certifying the interoperability of IT and NSS pursuant to sections 2222, 2223, and 2224 of Title 10, United States Code (Reference (c)). Establishes a capability-focused, architecture-based approach for interoperability analysis. Establishes the governing policy and responsibilities for interoperability requirements development, test, certification and prerequisite for connection of IT, including NSS (referred to in this instruction as "IT"). Defines a doctrine, organization, training, materiel, leadership and education, personnel, facilities, and policy (DOTMLPF-P) approach to enhance life-cycle interoperability of IT. Establishes the requirement for enterprise services to be certified for interoperability. Incorporates and cancels DoDD 4630.05, DoDI 4630.8, and DoD Chief Information Officer (CIO) memorandum (References (d), (e), and (f)).
48.	NetCentric Enterprise Solutions for Interoperability (NESI)	https://nesix.spawar.navy.mil/home.html	NESI is a body of architectural and engineering knowledge that guides the design, implementation, maintenance, evolution, and use of the Information Technology (IT) portion of net-centric solutions for defense application.
49.	AFI 33-111 Voice Systems Management	http://static.e-publishing.af.mil/production/1/934aw/publication/afi33-111_934awsup_i/afi33-111_934awsup_i.pdf	This instruction contains guidelines and procedures for managing Air Force voice systems and networks. Ensures installation, removal, modification, and relocation of telephone services are necessary to either sustain billing integrity, or to provide new service to offices/locations without base telephone service already present, or to maintain telephone numbers with primary offices that appear in the base telephone directory. Assure telephone services remain attached to organizations/functions versus individual personnel; do not submit requests to relocate telephone number(s) or telephone instrument(s) when personnel are assigned to a new office unless the reassignment is associated with an organizational restructure and the individual continues to perform the same organizational function. Otherwise, personnel transitioning to a new office will inherit the existing telephone number(s) and instrument(s) at the new location and update the Global Address Listing with their new telephone number(s). If no base telephone service is available at the new location, TCOs will submit a request to obtain service.

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50.	DoDI 8520.02 Public Key Infrastructure (PKI) and Public Key (PK) Enabling	http://www.dtic.mil/whs/directives/corres/pdf/852002p.pdf	This instruction establishes and implements policy, assign responsibilities, and prescribe procedures for developing and implementing a DoD-wide PKI and enhancing the security of DoD information systems by enabling these systems to use PKI for authentication, digital signatures, and encryption.
51.	Installation Energy Management	http://www.dtic.mil/whs/directives/corres/pdf/417011p.pdf	ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. It was enacted by Executive Order 13423 and governed by FAR 23.704.
52.	Federal Information Security Management Act (FISMA) 2002	http://www.dhs.gov/federal-information-security-management-act-fisma	<p>FISMA was enacted as part of the E-Government Act of 2002 to “provide a comprehensive framework for ensuring the effectiveness of information security controls over information resources that support Federal operations and assets,” and also to “provide for development and maintenance of minimum controls required to protect Federal information and information systems.”</p> <p>FISMA requires Federal agencies to:</p> <ul style="list-style-type: none"> • designate a Chief Information Officer (CIO), • delegate to the CIO authority to ensure compliance with the requirements imposed by FISMA, • implement an information security program, • report on the adequacy and effectiveness of its information security policies, procedures, and practices, • participate in annual independent evaluations of the information security program and practices, and • develop and maintain an inventory of the agency’s major information systems. <p>FISMA requires the Director of the Office of Management and Budget (OMB) to ensure the operation of a central Federal information security incident center. FISMA makes the National Institute of Standards and Technology (NIST) responsible for “developing standards, guidelines, and associated methods and techniques” for information systems used or operated by an agency or contractor, excluding national security systems.</p>

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53.	FedRAMP Security Controls for Cloud Service Providers	http://cloud.cio.gov/document/fedramp-security-controls	The attachment at the link contains a listing for the FedRAMP low and moderate baseline security controls, along with additional guidance and requirements for Cloud Service Providers. Those controls, guidance, and requirements are key standards for NetOps vendors to meet for any Cloud-related task orders that might have issues on NetOps.
54.	GiG Technical Guidance Federation GIG-F	https://gtg.csd.disa.mil/uam/login.do	The GIG Technical Guidance Federation (GTG-F) is a suite of software applications on the NIPRNet and SIPRNet (June 2012) that provides technical guidance across the Enterprise to achieve net-ready, interoperable, and supportable GIG systems. The GTG-F assists program managers, portfolio managers, engineers and others in answering two questions critical to any Information Technology (IT) or National Security Systems (NSS): (1) Where does the IT or NSS fit, as both a provider and consumer, into the GIG with regard to End-to-End technical performance, access to data and services, and interoperability; (2) What must an IT or NSS do to ensure technical interoperability with the GIG. The GTG-F content provides the technical information to various users in addressing and resolving technical issues needed to meet functional requirements (i.e., features and capabilities) of the GIG. This GTG-F content consists of and is based on GIG net-centric IT standards, associated profiles, engineering best practices and reference implementation specifications.
55.	Homeland Security Presidential Directive 12 (HSPD 12)	http://www.dhs.gov/homeland-security-presidential-directive-12	Federal law signed by George Bush that directed promulgation of a Federal standard for secure and reliable forms of identification for Federal employees and contractors. Part two provides detailed specifications that will support technical interoperability among PIV systems of Federal departments and agencies. NIST has been designated as the approval and testing authority to certify products. FIPS 201 implements this policy.

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56. ICD 503, IT Systems Security, Risk Management, Certification and Accreditation	http://www.dni.gov/files/documents/ICD/ICD_503.pdf	This Intelligence Community Directive (ICD) establishes Intelligence Community (IC) policy for information technology systems security risk management, certification and accreditation. This ICD focuses on a more holistic and strategic process for the risk management of information technology systems, and on processes and procedures designed to develop trust across the intelligence community information technology enterprise through the use of common standards and reciprocally accepted certification and accreditation decisions.
57. IEEE/EIA 12207.0 Standard for Information Technology	http://IEEE.org	IEEE/EIA 12207.0, "Standard for Information Technology – Software Life Cycle Processes", is a standard that establishes a common framework for software life cycle process. This standard officially replaced MIL-STD-498 for the development of DoD software systems in May 1998.[1] Other NATO nations may have adopted the standard informally or in parallel with MIL-STD-498. This standard defines a comprehensive set of processes that cover the entire life-cycle of a software system—from the time a concept is made to the retirement of the software. The standard defines a set of processes, which are in turn defined in terms of activities. The activities are broken down into a set of tasks. The processes are defined in three broad categories: Primary Life Cycle Processes, Supporting Life Cycle Processes, and Organizational Life Cycle Processes.

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58.	AFI 33-115 Air Force Information Technology (IT) Service management	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afi33-115/afi33-115.pdf	This Air Force instruction (AFI) implements Air Force Policy Directive (AFPD) 33-1, Information Resources Management. It sets forth policies regarding the official or authorized use of government-provided electronic messaging systems on both Non-secure Internet Protocol Router Network (NIPRNet) and SECRET Internet Protocol Router Network (SIPRNet). It identifies the Defense Message System (DMS) as the core-messaging system of record for the Air Force. It provides the roles, standards, and guidance relating to the messaging classes used by the Air Force: organizational DMS High Grade Service (HGS), and Simple Mail Transfer Protocol (SMTP) electronic mail (E-mail) messaging. This instruction applies to all Air Force organizations, personnel, Air National Guard, Air Force Reserve Command, and contractors regardless of the information classification transmitted or received. This instruction provides guidance to differentiate between record and non-record E-mail.
59.	ISO/IEC 20000	http://www.iso.org/iso/home.html	ISO/IEC 20000 is an international standard for IT Service Management (ITSM). It allows IT organizations to ensure the alignment between ITSM processes and their overall organization strategy. It requires the service provider to plan, establish, implement, operate, monitor, review, maintain and improve a service management system (SMS). ISO/IEC 20000 consist of 5 separate documents, ISO/IEC 20000-1 through 20000-5
60.	ITU Recommendation H.320, Narrow-band Visual Telephone Systems and Terminal Equipment	http://www.itu.int/rec/T-REC-H.320	International Telecommunication Union recommendation that DoD requires for VTC and DISN Video Services equipment must meet. This standard sets BONDING (Bandwidth on Demand) algorithms to ensure bandwidth in proper increments. This included with FTR 1080B-2002.

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<p>61. CJCSI 6212.01F Interoperability and Supportability of Information Technology and National Security Systems</p>	<p>http://www.dtic.mil/cjcs_directives/cdata/unlimit/6212_01.pdf</p>	<p>Establishes policies and procedures for developing, coordinating, reviewing, and approving Information Technology (IT) and National Security System (NSS) Interoperability and Supportability (I&S) needs. Establishes procedures to perform I&S Certification of Joint Capabilities Integration and Development System (JCIDS) Acquisition Category (ACAT) programs/systems. Establishes procedures to perform I&S Certification of Information Support Plans (ISPs) and Tailored ISPs (TISPs) for all ACAT, non-ACAT and fielded programs/systems. Defines the five elements of the Net-Ready Key Performance Parameter (NR-KPP). Provides guidance for NR-KPP development and assessment. Establishes procedures for the Joint Interoperability Test Command (JITC) Joint Interoperability Test Certification. Adds the requirement from Joint Requirements Oversight Council Memorandum (JROCM) 010-08, 14 January 2008, "Approval to Incorporate Data and Service Exposure Criteria into the Interoperability and Supportability Certification Process" for reporting of data and service exposure information as part of I&S submissions.</p>
<p>62. DODI 5015.02 DoD Records Management Program</p>	<p>http://www.dtic.mil/whs/directives/corres/pdf/501502p.pdf</p>	<p>Establishes policy and assigns responsibilities for the management of DoD records in all media, including electronic</p>
<p>63. Joint Vision 2020</p>	<p>http://www.dtic.mil/futurejointwarfare/</p>	<p>Strategic Guidance: Joint Vision 2020 builds upon and extends the conceptual template established by Joint Vision 2010 to guide the continuing transformation of America's Armed Forces.</p>

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64.	Section 508 of the Rehabilitation Act of 1973	http://www.opm.gov/html/508-textOfLaw.asp	On August 7, 1998, President Clinton signed into law the Rehabilitation Act Amendments of 1998 which covers access to federally funded programs and services. The law strengthens section 508 of the Rehabilitation Act and requires access to electronic and information technology provided by the Federal government. The law applies to all Federal agencies when they develop, procure, maintain, or use electronic and information technology. Federal agencies must ensure that this technology is accessible to employees and members of the public with disabilities to the extent it does not pose an "undue burden." Section 508 speaks to various means for disseminating information, including computers, software, and electronic office equipment. It applies to, but is not solely focused on, Federal pages on the Internet or the World Wide Web.
65.	DODD 8100.02 Use of Commercial Wireless Devices, Services, and Technologies in the DoD Information Network (DODIN)	http://www.dtic.mil/whs/directives/corres/pdf/810002p.pdf	Establishes policy and assigns responsibilities for the use of commercial wireless devices, services, and technologies in the DoD Global Information Grid (GIG) (DoD Directive 8100.1, "Global Information Grid (GIG) Overarching Policy," September 19, 2002). Directs the development and use of a Knowledge Management (KM) process to promote the sharing of wireless technology capabilities, vulnerabilities, and vulnerability mitigation strategies throughout the Department of Defense. Promotes joint interoperability using open standards throughout the Department of Defense for commercial wireless services, devices, and technological implementations.
66.	DODD 8100.1 Department of Defense Information Network (DoDIN) Overarching Policy	http://www.acq.osd.mil/ie/bei/pm/ref-library/dodd/d81001p.pdf	Establishes policy and assigns responsibilities for GIG configuration management, architecture, and the relationships with the Intelligence Community (IC) and defense intelligence components.
67.	DODI 8320.02 Sharing Data, Information, and Information Technology (IT) Services in the Department of Defense	http://www.dtic.mil/whs/directives/corres/pdf/832002p.pdf	Establishes policies and responsibilities to implement data sharing, in accordance with Department of Defense Chief Information Officer Memorandum, "DoD Net-Centric Data Strategy," May 9, 2003, throughout the Department of Defense. Directs the use of resources to implement data sharing among information capabilities, services, processes, and personnel interconnected within the Global Information Grid (GIG), as defined in DoD Directive 8100.1, "Global Information Grid (GIG) Overarching Policy," September 19, 2002.

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68.	Security Technical Implementation Guides (STIGs)	http://iase.disa.mil/stigs/Pages/index.aspx	The Security Technical Implementation Guides (STIGs) are the configuration standards for DoD IA and IA-enabled devices/systems. The STIGs contain technical guidance to 'lock down' information systems/software that might otherwise be vulnerable to a malicious computer attack.
69.	Title 44 USC Section 3542	http://us-code.vlex.com/vid/sec-definitions-19256373	(2)(A) The term "national security system" means any information system (including any telecommunications system) used or operated by an agency or by a contractor of an agency, or other organization on behalf of an agency— (i) the function, operation, or use of which— (I) involves intelligence activities; (II) involves cryptologic activities related to national security; (III) involves command and control of military forces; (IV) involves equipment that is an integral part of a weapon or weapons system; or (V) subject to subparagraph (B), is critical to the direct fulfillment of military or intelligence missions; or (ii) is protected at all times by procedures established for information that have been specifically authorized under criteria established by an Executive order or an Act of Congress to be kept classified in the interest of national defense or foreign policy. (B) Subparagraph (A)(i)(V) does not include a system that is to be used for routine administrative and business applications (including payroll, finance, logistics, and personnel management applications).
70.	Security Technical Implementation Guides (STIGs) CJCSI 6510.01F Information Assurance (IA) AND Support To Computer Network DEFENSE (CND)	http://www.dtic.mil/cjcs_directives/cdata/unlimit/6510_01.pdf	The Security Technical Implementation Guides (STIGs) and the NSA Guides are the configuration standards for DOD IA and IA-enabled devices/systems. Since 1998, DISA Field Security Operations (FSO) has played a critical role enhancing the security posture of DoD's security systems by providing the Security Technical Implementation Guides (STIGs). The STIGs contain technical guidance to "lock down" information systems/software that might otherwise be vulnerable to a malicious computer attack. DISA FSO is in the process of moving the STIGs towards the use of the NIST Security Content Automation Protocol (S-CAP) in order to be able to "automate" compliance reporting of the STIGs.

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Standard	URL	Description
71. CNSSI 1253: Security Categorization and Controls Selection for National Security Systems	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/cnssi-security-categorization.pdf	Instruction serves as a companion document to NIST SP 800-53 for organizations that employ NSS.
72. NIST SP 500-292: Cloud Computing Reference Architecture	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/nist-cloud-ref-architecture.pdf	Overview of the five major roles & responsibilities using the Cloud Computing Taxonomy.
73. NIST SP 800-146: Cloud Computing Synopsis & Recommendations	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/nist-cloud-synopsis.pdf	NIST explains the cloud computing technology and provides recommendations for information technology decision makers.
74. NIST SP 800-145: Definition of Cloud Computing	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/NIST-SP800145-DefinitionofCloudComputing.pdf	NIST provides a baseline for what cloud computing is and how to best use cloud computing. The services and deployment models are defined within this document.
75. NIST SP 800-53: Security and Privacy Controls for Federal Information Systems and Organizations	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/NIST-SP80053-SecurityandPrivacyControls.pdf	Guidelines for selecting and specifying security controls for organizations and information systems supporting the executive agencies of the federal government to meet requirement FIPS Publication 200.
76. Best Practices for Acquiring IT as a Service	http://disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/Creating-Effective-Cloud-Computing-Contracts-for-the-Federal-Government.pdf	Guidance on the implementations of shared services as well as navigates through the complex array of issues that are necessary to move to a shared service environment.
77. Department of Defense Chief Information Officer Cloud Computing Strategy	http://www.defense.gov/news/DoDCloudComputingStrategy.pdf	This strategy is to enable the Department to increase secure information sharing and collaboration, enhance mission effectiveness, and decrease costs using cloud services.
78. CNSSI 4009: National Information Assurance (IA) Glossary	http://www.ncix.gov/publications/policy/docs/CNSSI_4009.pdf	This revision of CNSSI 4009 incorporates many new terms submitted by the CNSS Membership. Most of the terms from the 2006 version of the Glossary remain, but a number of them have updated definitions in order to remove inconsistencies among the communities.
79. Executive Order 13526: Classified National Security Information	http://www.whitehouse.gov/the-press-office/executive-order-classified-national-security-information	This order prescribes a uniform system for classifying, safeguarding, and declassifying national security information, including information relating to defense against transnational terrorism.
80. Designation of the Defense Information Systems Agency as the Department of Defense Enterprise Cloud Service Broker	http://www.disa.mil/Services/DoD-Cloud-Broker/-/media/Files/DISA/Services/Cloud-Broker/disa-designation-memo.pdf	This memorandum establishes Defense Information Systems Agency (DISA) as the DoD Enterprise Cloud Service Broker.

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81.	Interim Guidance Memorandum on Use of Commercial Cloud Computing Services	http://www.disa.mil/services/dod-cloud-broker/~media/files/disa/services/cloud-broker/interim-guidance-memo-on-use-of-commercial-cloud-computing-services.pdf	This Memorandum serves to reinforce existing policy and processes, and is in effect for all DoD networks and systems.
82.	DoD Instructions, 8500 Series	http://www.dtic.mil/whs/directives/corres/ins1.html	DoD Issuances
83.	FIPS 199: Standards for Security Categorization of Federal Information and Information Systems	http://csrc.nist.gov/publications/fips/fips199/FIPS-PUB-199-final.pdf	This publication is to develop standards for categorizing information and information systems.
84.	NIST SP 800-59: Guideline for Identifying an Information System as a National Security System	http://csrc.nist.gov/publications/nistpubs/800-59/SP800-59.pdf	The purpose of these guidelines is to assist agencies in determining which, if any, of their systems are national security systems as defined by FISMA and are to be governed by applicable requirements for such systems, issued in accordance with law and as directed by the President.
85.	NIST SP 800-66, Revision 1: An Introductory Resource Guide for Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule	http://csrc.nist.gov/publications/nistpubs/800-66-Rev1/SP-800-66-Revision1.pdf	This Special Publication summarizes the HIPAA security standards and explains some of the structure and organization of the Security Rule. The publication helps to educate readers about information security terms used in the HIPAA Security Rule and to improve understanding of the meaning of the security standards set out in the Security Rule.
86.	NIST SP 800-88, Revision 1: Draft: Guidelines for Media Sanitization	http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-88r1.pdf	This guide will assist organizations and system owners in making practical sanitization decisions based on the categorization of confidentiality of their information.
87.	NIST SP 800-122: Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)	http://csrc.nist.gov/publications/nistpubs/800-122/sp800-122.pdf	This document provides guidelines for a risk-based approach to protecting the confidentiality of PII. The recommendations in this document are intended primarily for U.S. Federal government agencies and those who conduct business on behalf of the agencies, but other organizations may find portions of the publication useful.
88.	NIST SP 800-144: Guidelines on Security and Privacy in Public Cloud Computing	http://csrc.nist.gov/publications/nistpubs/800-144/SP800-144.pdf	The primary purpose of this report is to provide an overview of public cloud computing and the security and privacy considerations involved. It describes the threats, technology risks, and safeguards surrounding public cloud environments, and their treatment. It does not prescribe or recommend any specific cloud computing service, service arrangement, service agreement, service provider, or deployment model.

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89.	NIST SP 800-37, Revision 1: Guide for Applying the Risk Management Framework to Federal Information Systems	http://csrc.nist.gov/publications/nistpubs/800-37-rev1/sp800-37-rev1-final.pdf	The purpose of this publication is to provide guidelines for applying the Risk Management Framework to federal information systems to include conducting the activities of security categorization, security control selection and implementation, security control assessment, information system authorization, and security control monitoring.
90.	Defense Information Systems Agency, the Security Technical Implementation Guide (STIG)	http://iase.disa.mil/stigs/Pages/index.aspx	The Security Technical Implementation Guides (STIGs) are the configuration standards for DoD IA and IA-enabled devices/systems. The STIGs contain technical guidance to 'lock down' information systems/software that might otherwise be vulnerable to a malicious computer attack.
91.	Cloud Computing Security Requirements Guide (SRG), Version 1	http://iase.disa.mil/cloud_security/Documents/uc-cloud_computing_srg_v1r1_final.pdf	The 15 December 2014 DoD CIO memo regarding Updated Guidance on the Acquisition and Use of Commercial Cloud Computing Services defines DoD Component responsibilities when acquiring commercial cloud services. The memo allows components to responsibly acquire cloud services minimally in accordance with the security requirements outlined in Federal Risk and Authorization Management Program (FedRAMP) and this Security Requirement Guide (SRG). DISA previously published the concepts for operating in the commercial cloud under the Cloud Security Model. Version 1 defined the overall framework and provided initial guidance for public data. Version 2.1 added information for Controlled Unclassified Information. This document, the Cloud Computing Security Requirements Guide, SRG, documents cloud security requirements in a construct similar to other SRGs published by DISA for the DoD. This SRG incorporates, supersedes, and rescinds the previously published Security Model.
92.	Class Deviation - Contracting for Cloud Services (DFARS 239.99/252.239-7999)	http://www.acq.osd.mil/dpap/policy/policyvault/USA001321-15-DPAP.pdf	New requirements for contracting officers to follow in contracts, task orders, and delivery orders in acquisitions for, or that may involve cloud computing services.
93.	Unified Capabilities Requirements 2013 (UCR 2013)	http://www.disa.mil/Network-Services/UCCO/Archived-UCR	This document specifies technical requirements for certification of approved products supporting voice, video, and data applications services to be used in Department of Defense networks to provide end-to-end Unified Capabilities (UC).
94.	Updated Guidance on the Acquisition and Use of Commercial Cloud Computing Services	http://www.doncio.navy.mil/Download.aspx?AttachID=5555	This memo clarifies and updates DoD guidance when acquiring commercial cloud services.

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95.	NSTISSAM TEMPEST 2-95	http://en.wikipedia.org/wiki/RED/BLACK_concept	Also known as Red/Black Installation Guidance, it requires commercial telecommunications products that process classified information to be certified by the NSA Certified TEMPEST Products Program and addresses considerations for facilities where national security information is processed. The red/black concept refers to the careful segregation in cryptographic systems of signals that contain sensitive or classified plaintext information (red signals) from those that carry encrypted information, or cipher text (black signals). In NSA jargon, encryption devices are often called blackers, because they convert red signals to black. TEMPEST standards spelled out in NSTISSAM Tempest/2-95 specify shielding or a minimum physical distance between wires or equipment carrying or processing red and black signals.
96.	NSTISSAM TEMPEST/1-92/TEMPEST Certification	http://www.nsa.gov/applications/ia/tempest/index.cfm	TEMPEST is compromising emanations are defined as unintentional intelligence-bearing signals which, if intercepted and analyzed, may disclose the information transmitted, received, handled, or otherwise processed by any information-processing equipment.
97.	AFMAN 33-285 Cybersecurity Workforce Improvement Program	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afman33-285/afman33-285.pdf	This rewrite identifies cybersecurity baseline certification requirements for the AF cybersecurity workforce; stipulates minimum certification requirements for various cyber roles and risk management positions; sets qualifications criteria; clarifies the cybersecurity-coding position process; and codifies the waiver policy for baseline certification requirements.
98.	AFGM 2015-33-01, End-of-Support Software Risk Management	http://static.e-publishing.af.mil/production/1/saf_cio_a6/publication/afgm2015-33-01/afgm2015-33-01.pdf	This Guidance Memorandum supersedes AFGM 2014-33-03, Microsoft Windows XP End-of-Life, and highlights current policies and SAF/CIO A6 authorities to mitigate cybersecurity vulnerabilities introduced by unsupported software. Compliance with this Memorandum is mandatory.
99.	Business and Enterprise Systems (BES) Process Directory	https://acc.dau.mil/bes	The BES Process Directory (BPD) is a life cycle management and systems engineering process based on the Integrated Defense Acquisition, Technology, and Logistics Life Cycle Management System; as tailored for Information Technology (IT) systems via the Defense Acquisition Process Model for Incrementally Fielded Software Intensive Programs