

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE 1 OF 1 PAGES		
2. CONTRACT (Proc. Inst. Ident.) NO. GS00Q17NRD4002		3. EFFECTIVE DATE 05/03/2017		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. QP0022098			
5. ISSUED BY U.S. General Services Administration Federal Acquisition Service, Information Technology Category 1800 F Street, NW, 4th Floor, Washington DC 20405		6. ADMINISTERED BY (If other than Item 5)					
7. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Artel, LLC 13665 Dulles Technology Dr Ste 300 Herndon VA 20171-4640 (DUNS: 190644401)				8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input type="checkbox"/> OTHER (See below)			
				9. DISCOUNT FOR PROMPT PAYMENT			
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN ITEM			
CODE		FACILITY CODE					
11. SHIP TO/MARK FOR U.S. General Services Administration FAS/ITC 1800 F Street, NW, 4th Floor, Washington DC 20405		12. PAYMENT WILL BE MADE BY Financial Operations and Disbursement Branch P.O. Box 419279 1500 E. Bannister Road, Room 1011, Kansas City, MO 64141					
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)() <input type="checkbox"/> 41 U.S.C. 3304(a)()		14. ACCOUNTING AND APPROPRIATION DATA 2017. 2017. . 285F. IT21. 00. Q00TC000. AF140. H08.					
15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT		
	minimum revenue guarantee (IAW CS3 Contract Section B.3)	1	1	1,000.00	1,000.00		
15G. TOTAL AMOUNT OF CONTRACT					\$ 1,000.00		
16. TABLE OF CONTENTS							
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<i>CONTRACTING OFFICER WILL COMPLETE ITEM 17 (SEALED-BID OR NEGOTIATED PROCUREMENT) OR 18 (SEALED-BID PROCUREMENT) AS APPLICABLE</i>							
17. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return <u>one (1)</u> copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. <input type="checkbox"/> SEALED-BID AWARD (Contractor is not required to sign this document.) Your bid on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the terms listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your bid, and (b) this award/contract. No further contractual document is necessary. (Block 18 should be checked only when awarding a sealed-bid contract.)			
19A. NAME AND TITLE OF SIGNER (Type or Print) Jules G. Rondepierre, Director of Contracts				20A. NAME OF CONTRACTING OFFICER Tracey Embry			
19B. NAME OF CONTRACTOR Jules G Rondepierre		19C. DATE SIGNED 05/02/2017		20B. UNITED STATES OF AMERICA TRACEY EMBRY		20C. DATE SIGNED 05/03/2017	
BY _____ (Signature of person authorized to sign)				BY _____ (Signature of Contracting Officer)			

SECTION B SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 GENERAL

Contractors are sought who will provide worldwide commercial satellite communications (COMSATCOM) Complex Solutions. COMSATCOM Complex Solutions comprise customized engineered solutions to meet customers' unique COMSATCOM needs. These solutions may include any combination of fixed satellite services and/or mobile satellite services, components, and/or service enabling authorizations (e.g., host nation approvals, landing rights, frequency clearances, etc.) and components and ancillary equipment such as terminals, teleports, terrestrial tail circuits, Subscriber Identity Module (SIM) cards, and peripherals.

The Contractor must provide a complete customized complex solution, illustrating its approach to satisfying all of the requirements outlined in the following three Sample Task Orders (STOs):

- STO #1 – Contingency Satellite Communications System and Services
- STO #2 – Environmental Data Network
- STO #3 – Base Communications Network for Ouargla, Algeria

The Contractor shall only propose firm-fixed prices for STO #1 and STO #2 for each year of the STO period of performance (PoP). The STOs are based on relevant, known requirements and are representative of the Federal Government work that is currently being serviced through other contract mechanisms. It is the Government's intention, through this section, to obtain prices for the services, related features, and equipment described in Section J for STOs #1 and #2 (Section J Attachment J-8 and Attachment J-10). All prices shall conform to the format and structure defined herein. The Government will evaluate Contractor proposed prices for STO #1 and STO #2. The Contractor is not required to propose pricing for STO #3. The Government will not evaluate any prices proposed for STO #3.

B.2 SERVICES AND PRICES

Item prices shall be provided for the entire 10 year period of performance (PoP) and the FAR 52.217-8 six-month extension. Each pricing element will be identified by a Contract Line Item Number (CLIN). CLIN ranges are allocated by STO number. CLIN(s) for the 10 year PoP and the FAR 52.217-8 six-month extension are six digit numbers or a six digit number with the letter (a), (b), or (c). For STO #1 all CLINs begin with the number "1," for STO #2 all CLINs begin with the number 2. Separate pricing shall be offered for each contract year using the CLIN structure defined below. CLIN periods for contract years 2 through 10 and the FAR 52.217-8 six-month extension (contract year 11) will use the same CLIN structure as defined for contract year 1 and will include a dash (-) with applicable years 2 through 11 .



Tables B.2-1, B.2-2 and B.2-3 illustrate the STO CLIN numbering structure for the J-9, J-11a, and J-11b Excel Workbooks. Each individual CLIN has been identified in Contract Year 1 in Tables B.2-1, B.2-2 and B.2-3. The CLIN numbering scheme for the thirteen STO #1 CLINs repeat for contract years 2 through 10 and the FAR 52.217-8 six-month extension (contract year 11) by adding a dash at the end of each CLIN plus the numbers 1 through 11 that correspond to the contract year.

Table B.2-1. CLIN Numbering Structure STO #1 (Attachment J-9)

Contract Year	CLIN
Contract Year 1	110000-1
Satellite Communications Terminal and Equipment	110001-1
Satellite Communications Terminal and Equipment (Labor)	110001a-1
Satellite Communications Terminal and Equipment (Spares/Warranty)	110001b-1
Program Management	110002-1
Space Segment	110003-1
Teleport Service	110004-1
Terrestrial Service	110005-1
Training - Materials & Labor	110006-1
Frequency Clearances and Approvals	110007-1
Frequency Clearances and Approvals (Renewals)	110007a-1
Network Management and Operations Support (Equipment)	110008-1
Network Management and Operations Support (Labor)	110008a-1
Network Management and Operations Support (Spares/Warranty)	110008b-1
Contract Year 2*	110000-2
Contract Year 3*	110000-3
Contract Year 4*	110000-4
Contract Year 5*	110000-5
Contract Year 6* (Option Period 1)	110000-6
Contract Year 7* (Option Period 1)	110000-7
Contract Year 8* (Option Period 1)	110000-8
Contract Year 9* (Option Period 2)	110000-9
Contract Year 10* (Option Period 2)	110000-10
Contract Year 11* (FAR 52.217-8 / 6 mo extension)	110000-11

*Repeat the thirteen STO #1 CLINs listed for Contract Year 1 with the dash and one-digit extension representing the contract year..

Table B.2-2. CLIN Numbering Structure STO #2 – Fixed (Attachment J-11a)

Contract Year	CLIN
Contract Year 1	210000-1
Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)	210001-1
Remote Site Equipment (No Solar Required: Chile and	210001a-1

Argentina)	
Remote Site Equipment (Labor)	210001b-1
Remote Site Equipment (Spares/Warranty)	210001c-1
Program Management	210002-1
Space Segment	210003-1
Teleport Service	210004-1
Terrestrial Service	210005-1
Frequency Clearances and Approvals	210006-1
Frequency Clearances and Approvals (Renewals)	210006a-1
Network Management and Operations Support (Equipment)	210007-1
Network Management and Operations Support (Labor)	210007a-1
Network Management and Operations Support (Spares/Warranty)	210007b-1
Contract Year 2*	210000-2
Contract Year 3*	210000-3
Contract Year 4*	210000-4
Contract Year 5*	210000-5
Contract Year 6* (Option Period 1)	210000-6
Contract Year 7* (Option Period 1)	210000-7
Contract Year 8* (Option Period 1)	210000-8
Contract Year 9* (Option Period 2)	210000-9
Contract Year 10* (Option Period 2)	210000-10
Contract Year 11* (FAR 52.217-8 / 6 mo extension)	210000-11

*Repeat the thirteen STO #2 (Fixed) CLINs listed for Contract Year 1 with the dash and one-digit extension representing the contract year.

Table B.2-3. CLIN Numbering Structure STO #2 – Mobile (Attachment J-11b)

Contract Year	CLIN
Contract Year 1	210000-1
Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)	210001-1
Remote Site Equipment (No Solar Required: Chile and Argentina)	210001a-1
Remote Site Equipment (Labor)	210001b-1
Remote Site Equipment (Spares/Warranty)	210001c-1
Program Management	210002-1
Space Segment Service + Teleport Service	210003-1
Network Management and Operations Support (Equipment)	210004-1
Network Management and Operations Support (Labor)	210004a-1
Network Management and Operations Support (Spares/Warranty)	210004b-1
Contract Year 2*	210000-2
Contract Year 3*	210000-3
Contract Year 4*	210000-4



Contract Year 5*	210000-5
Contract Year 6* (Option Period 1)	210000-6
Contract Year 7* (Option Period 1)	210000-7
Contract Year 8* (Option Period 1)	210000-8
Contract Year 9* (Option Period 2)	210000-9
Contract Year 10* (Option Period 2)	210000-10
Contract Year 11* (FAR 52.217-8 / 6 mo extension)	210000-11

*Repeat the nine STO #2 (Mobile) CLINs listed for Contract Year 1 with the dash and one-digit extension representing the contract year.

The PoP for each STO will be a five year base period. The Contractor shall propose prices for all CLINs for the 5-year PoP (Years 1 through 5). Additionally, the Contractor shall propose prices for the two CS3 option periods: one (1) three-year option period (Years 6 through 8) followed by one (1) two-year option period (Years 9 and 10) and the FAR 52.217-8 six-month extension. STO #1 and STO #2 each have a Section J Excel Workbook (J-9 for STO #1 and J-11a or J-11b for STO #2) that shall be used by the Contractor to propose the priced solution for each STO. The Contractor shall utilize either the J-11a workbook for a Fixed Satellite Service solution or the J-11b workbook for a Mobile Satellite Service solution. The Contractor’s Price Proposal narrative shall include a detailed Basis of Estimate for STO #1 and STO #2 that identifies the individual cost elements for each of the CLINS and how the CLINs add up to the overall system price for each STO.

This pricing applies specifically to the STOs as outlined in the Section J attachments. The individual prices provided in the Excel Workbooks are for the proposed solutions should they be required and ordered exactly as outlined in the Section J STO attachments (J-8 and J-10). The prices provided in Sample Task Order Microsoft Excel spreadsheets in Section J (J-9, J-11a and J-11b) will be the awarded prices and are the only prices incorporated in the contract.

B.2.1 EXCEL WORKBOOK PRICING TABLES

Contractors are required to provide price inputs to the pricing tables within the Excel Workbooks for both STO #1 (Attachment J-9) and STO #2 (Attachment J-11a or Attachment J-11b). Each Excel Workbook is comprised of 13 worksheets:

- One Summary worksheet (e.g. CLIN 110000 Summary for STO #1),
- One Contract Year Y – Detail worksheet for each of the ten contract years (e.g. Contract Year 1 – Detail) and FAR 52.217-8 six-month extension (e.g. CY 11- FAR 52.217-8 (6 mo extn)), and
- A Labor Categories worksheet (e.g. Labor Categories_W_PRICES).

The Bill of Materials (BOM) worksheets (see B.2.1.4) are provided in separate attachments (J-18 for STO #1, J-19 (Fixed) and J-20 (Mobile) for STO #2, and J-13 for STO #3).

Formulas have been entered into the Section J spreadsheets (J-9, J-11a and J-11b) for the Contractor's convenience. However, it is the Contractor's responsibility to ensure that all quoted prices are correctly calculated and that all cells have been properly filled out. (See Section B.10 for additional pricing instructions). The Contractor shall enter required data only into the yellow highlighted cells marked by a red border.

B.2.1.1 SUMMARY WORKSHEET

The total contract year cost (cell H44 on J-9 and J-11a, and H32 from J-11b) from each Contract Year – Detail worksheet (see B.2.1.2 below) is linked to D12 through D22 in the Summary worksheet. Each contract year total cost will sum to the total cost in cell D23.

The Contractor shall not enter any information into the J-9, J-11a and J-11b Summary Worksheets (e.g. CLIN 110000 Summary).

B.2.1.2 CONTRACT YEAR – DETAIL WORKSHEETS

B.2.1.2.1 CONTRACT YEAR – DETAIL WORKSHEETS FOR STO #1

The Contractor shall enter required data into the yellow highlighted cells marked by a red border on the “Contract Year Y – Detail” worksheets for CLINs 110001 through 110008b. For these CLINs, please note the CLIN pricing instructions in Column C. The Contractor must fill out the description of the service or product in Column D and the Product/Service Unit Price in Column G. Column H automatically calculates the price for each CLIN. The Contractor must provide all prices rounded to the nearest whole dollar. The CY 11-FAR 52.217-8 (6-mo exten) worksheet pricing shall cover pricing for six months only.

Any equipment, supplies or service required in the Contractor's proposed solution for which an item is not specifically priced with a unique CLIN is considered to be not separately priced and shall be provided at no cost to the Government.

The Contractor shall also link labor hours to a specific CLIN by entering the information into columns K through T on the Contract Year Y – Detail worksheet (see Figure B.2-1). For CLINs where the Contractor shall price labor, three rows per CLIN are dedicated to entering the labor information. There is a two-step process for labor hours. Step 1, the Contractor shall type the Labor Code into the topmost row. Do not cut and paste from the Labor Categories worksheet or from elsewhere in the document to preserve the imbedded formula integrity. The Contract Year Y – Detail worksheet pulls in the full name from the Labor Categories worksheet (see B.2.1.3 below) into the middle row. Step 2, the Contractor shall enter the number of labor hours per Labor Category (LC) Code into the bottom row of the three. Column I sums the total number of labor hours from the bottom row.

Figure B.2-1. CLIN Labor Hours Example

		I	J	K	L	M	N	O	
		Contingency Satellite Commur							
Total Hours Per Period by Service or Product (if any)	Labor Category Information	1. Enter LC code here		2. Enter hours here		Automatically populated		Professional Services L	
	Labor Category Code			LC-6	LC-4	LC-2	LC-1	Enter LC Code Here	
	Labor Category Name			Program Manager (example)	Lead Installer (example)	Senior Technician (example)	Junior Technician (example)	#N/A	
Labor Category Hours			800	800	1800		1920	Enter Annual Labor Category Hours	
		5320.00							

Not all CLINs link labor hours to the CLIN price. For some CLINs, labor is not relevant. For example, in J-9 “Satellite Communications Terminal and Equipment,” CLIN number 110001, labor is not applicable. For CLINs like 110001, the labor cells in columns I through T in the Contract Year Y – Detail worksheet have been blacked out.

Other CLINs are for labor only. For example, in J-9 “Satellite Communications Terminal and Equipment (Labor),” CLIN number 110001a is labor only. For those CLINs, the Product/Service Unit Price cells (Column G) is marked as “Not Applicable,” and the Contractor must enter the total service or product price in Column H.

The final type of CLIN links labor hours to the Total Service or Product Price. For example, in J-9 “Training - Materials & Labor,” CLIN number 110006 is for both Training materials and Training labor.

The number of labor hours per CLIN is the sum of all labor hours proposed per year. Using the example in Figure B.2-1 above for STO #1 (Attachment J-9), Year 1, if the value of cell I25 is 5320, then the Contractor is proposing 5320 hours of labor for the Satellite Communications Terminal and Equipment (Labor) CLIN (CLIN 11000a-1) for Contract Year 1.

B.2.1.2.2 CONTRACT YEAR – DETAIL WORKSHEETS FOR STO #2

For Fixed Satellite Solutions (Attachment J-11a), the Contractor shall enter required data into the yellow highlighted cells marked by a red border on the “Contract Year Y – Detail Worksheet for each of the ten contract years (e.g. Year 1 – Detail) for CLINs 210001 through 210007b and the FAR 52.217-8 six-month extension.

For Mobile Satellite Solutions (Attachment J-11b), the Contractor shall enter required data into the cells marked by a red border on the “Contract Year Y – Detail Worksheet for each of the ten contract years (e.g. Year 1 – Detail) for CLINs 210001 through



210004b and the FAR 52.217-8 six-month extension.

For all CLINs in both J-11a and J-11b, the Contractor must provide all prices rounded to the nearest whole dollar. The CY 11-FAR 52.217-8 FAR 52.217-8 (6 mo exten) worksheet pricing shall cover pricing for six months only.

Any equipment, supplies or service required in the Contractor's proposed solution for which an item is not specifically priced with a unique CLIN is considered to be not separately priced and provided at no cost to the Government.

The Contractor shall also link labor hours to a specific CLIN by entering the information into columns K through T on the Contract Year Y – Detail worksheet (see Figure B.2-1). For CLINs where the Contractor shall price labor, three rows per CLIN are dedicated to entering the labor information. There is a two-step process for labor hours. Step 1, the Contractor shall type the Labor Code into the topmost row. Do not cut and paste from the Labor Categories worksheet or from elsewhere in the document to preserve the imbedded formula integrity. The Contract Year Y – Detail worksheet pulls in the full name from the Labor Categories worksheet (see B.2.1.3 below) into the middle row. Step 2, the Contractor shall enter the number of labor hours per Labor Category (LC) Code into the bottom row of the three. Column I sums the total number of labor hours from the bottom row.

Not all CLINs link labor hours to the CLIN price. For some CLINs, labor is not relevant. For example, in J-11a “Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela),” CLIN number 210001, labor is not applicable. For CLINs like 210001, the labor cells in columns I through T in the Contract Year Y – Detail worksheet have been blacked out.

Other CLINs are for labor only. For example, in J-11b “Remote Site Equipment (Labor),” CLIN number 210001b is labor only. For those CLINs, the Product/Service Unit Price cells (Column G) is marked as “Not Applicable,” and the Contractor must enter the total service or product price in Column H.

The final type of CLIN links labor hours to the Total Service or Product Price. For example, in J-11a “Teleport Service,” CLIN number 210004 is for pricing for teleport services including any associated labor.

The number of labor hours per CLIN is the sum of all labor hours proposed per year. Using the STO #2 (Fixed) worksheet (J-11a) for example, if the value of cell I10 is 50, then 50 hours of labor were proposed for the Remote Site Equipment (Labor) CLIN (CLIN 210001b-1) for the Contract Year.

B.2.1.3 LABOR CATEGORIES WORKSHEET

The Contractor shall enter their labor category information into the Labor Categories worksheet (“Labor Categories_W_PRICES”), as shown in Figure B.2-2 below. The Contractor can enter up to 35 different labor categories into Columns B through AJ. The Labor Category Codes, identified by code LC-Y (with Y representing a number from 1 to 35), are highlighted in Blue on row 4. The Contractor shall not change the Labor Category Code. Step 1, the Contractor shall enter the labor category “short name” into row 5. Step 2, the Contractor shall enter the hourly rates into row 6 through 16. Finally, for Step 3, the Contractor shall enter the detailed description of the labor category into row 18. The Labor Categories worksheet is linked to the Contract Year Y – Detail worksheets as discussed in B.2.1.2.1 and B.2.1.2.2 above.

Figure B.2-2. Labor Categories Worksheet

	A	B	C	D	E
3	STO-1 Labor Price Table	Professional Services Labor Categories (\$/Hour)			
4	Labor Category Code	LC1	LC2	LC3	LC4
5	Labor Category Name	Junior Technician (example)	Senior Technician (example)	Business Systems Analyst (example)	Lead Inst...
6	Period 1 Hourly Prices	\$120.00	\$144.00	\$141.18	\$1...
7	Period 2 Hourly Prices	\$123.00	\$147.60	\$144.71	\$147...
8	Period 3 Hourly Prices	\$126.08	\$151.29	\$148.33	\$151...
9	Period 4 Hourly Prices	\$129.23	\$155.07	\$152.04	\$155...
10	Period 5 Hourly Prices	\$132.46	\$158.95	\$155.84	\$158...
11	Period 6 Hourly Prices	\$135.77	\$162.92	\$159.73	\$162...
12	Period 7 Hourly Prices	\$139.16	\$167.00	\$163.73	\$167...
13	Period 8 Hourly Prices	\$142.64	\$171.17	\$167.82	\$171...
14	Period 9 Hourly Prices	\$146.21	\$175.45	\$172.01	\$175...
15	Period 10 Hourly Prices	\$149.86	\$179.84	\$176.31	\$179...
16	Extension Hourly Prices	\$153.61	\$184.33	\$180.72	\$184...
17					
18	Labor Category Detailed Descriptions	Detailed Description Experience Levels and Training of Staff for each Labor Category	Detailed Description Experience Levels and Training of Staff for each Labor Category	Detailed Description Experience Levels and Training of Staff for each Labor Category	Detailed Description Experience Levels and Training of Staff for each Labor Category

1. Enter LC name here

2. Enter hourly rates here

3. Enter LC description here

B.2.1.4 BILL OF MATERIALS (BOM) WORKSHEET

The Contractor shall complete an unpriced BOM worksheet for STO #1, STO #2 and STO #3 that includes all required services, equipment, and labor. The Contractor shall enter the “Component Name or Service Name”, “Component Description/Manufacturer/Model Number(s) or Service Description” (including manufacturer’s model numbers, if applicable), and the required quantity, including labor



hours, for each product or service (See J-13, J-18, J-19, and J-20). The Contractor shall submit the BOM worksheets with the Technical Volume.

B.3 MAXIMUM CONTRACT VALUE AND MINIMUM REVENUE GUARANTEE

The total maximum value of all services under the Basic Contract (for all awardees combined) shall not exceed \$2.5 Billion, including the Options.

The minimum revenue guarantee (MRG) amount for each award will be \$1,000.

B.4 GSA MANAGEMENT FEE

The GSA Management Fee is two percent (2%) to be applied to the total price for Contractor performance as billed to the Government.

Contractors must include the fee in their proposed prices on all Orders. The Contractor remits the fee to GSA in accordance with Section G.4.2.

B.5 ORDER TYPE

Orders under the Basic Contract will be firm fixed price.

Orders must be Task Orders in compliance with FAR 16.505.

Task Orders may be multi-year and/or include options as defined in FAR Part 17 and agency-specific FAR Part 17 supplements.

B.6 Performance Based Preference

Pursuant to FAR 37.102(a), the Ordering Contracting Officer (OCO) (See Section G.2.3) must use performance-based acquisition methods to the maximum extent practicable.

B.7 ORDER PRICING

The OCO is responsible for the determination of price reasonableness for each Order. The OCO must determine fair and reasonable pricing for all Orders in accordance with FAR Subpart 15.4, Contract Pricing, and FAR 16.202, Firm-fixed-price contracts.

B.8 TRAVEL PRICING

Travel will be reimbursed at actual cost in accordance with the limitations set forth in FAR 31.205-46 and the Federal Travel Regulation.

B.9 LABOR SUBJECT TO THE PROVISIONS OF SERVICE CONTRACT LABOR STANDARDS

To the extent that any labor within scope of an Order and the Basic Contract, and subject to the provisions of (i) 41 U.S.C. Chapter 67, Service Contract Labor Standards (formerly known as the Service Contract Act of 1965); (ii) the applicable provisions of the Fair Labor Standards Act of 1938, as amended (29 U.S.C. 201, et seq.) and (iii) related Secretary of Labor regulations and instructions (29 CFR parts 4, 6, 8, and 1925), the OCO must identify such work on the Order and apply wages in accordance with FAR Subpart 22.10, Service Contract Labor Standards Determinations.

Each Order must be tailored to include the appropriate FAR subpart Part 22.10 clauses.

B.10 PRICING INSTRUCTIONS

B10.1 PRICING NARRATIVE

In the Contractor's price volume, the Contractors shall provide an explanatory pricing narrative and price breakdown of the proposed pricing for their technical solution for STO #1 and STO #2.

The Contractor shall provide a detailed Basis of Estimate for STO #1 and STO #2 that shows the cost elements for each of the CLINS and how the CLINs add up to the overall system price. The Contractor shall provide (per CLIN / per year) a cost element breakdown that includes but is not limited to labor categories, estimated hours, hourly rates, materials, and other direct costs (excluding travel and shipping), of the price for their technical solution for STO #1 and STO #2.

The Contractors are required to show the Basis of Estimate of each CLIN's cost and explain the logic, pricing assumptions, methodology and data used to determine the CLIN's price.

If the prices to be used are based on a published price list or catalog, the Contractor shall indicate this and provide a copy of the document with its price proposal. If the prices are to be based on established market prices, not otherwise published, or are prices applicable only to the proposed contract, the Contractor shall so state.

The Contractor shall fully describe their pricing methodology and all labor, services and equipment required for their Sample Task Order solution(s). If the Contractor does not fully describe their pricing methodology the Government shall consider any labor, services and equipment not included in the narrative to be provided at no cost.

Contractors shall identify and price all labor required for their Sample Task Order solutions.

SAMPLE TASK ORDERS



Pricing is only required for the following two STOs:

STO #1: Contingency Satellite Communications System and Services

STO #2: Environmental Data Network

(The Contractor is not required to propose pricing for STO #3. The Government will not evaluate any prices proposed for STO #3).

The Contractor shall provide pricing for all labor, services, and equipment proposed using the Sample Task Order Microsoft Excel spreadsheets in Section J. Clearly identify the components that compose each offered price. All equipment delivered as part of the complex satellite solution shall be priced as new equipment.

The Contractor shall provide the overall system price for each Sample Task Order for each year of the base period and for each option year including the six-month extension authorized by FAR 52.217-8. The proposed firm fixed prices shall include all regulatory telecommunications charges and fees as well as all applicable Federal, State, and local taxes and duties. Formulas have been entered into the Section J spreadsheets for the Contractor's convenience; however, it is the Contractor's responsibility to ensure that all quoted prices are correctly calculated and that all cells have been properly filled out.

The prices provided in Sample Task Order Microsoft Excel spreadsheets in Section J (J-9, J-11a and J-11b) will be the awarded prices and are the only prices incorporated in the contract.

B.10.2 PRICING INSTRUCTIONS FOR STO #1 (Attachment J-8)

The Contractor shall provide firm fixed prices for the items listed in the contract line item number (CLIN) list in Section J, Attachment J-9 according to the instructions in Section B, including labor categories and number of hours for each category as necessary. Each proposed labor category shall include position title and definition. Travel expenses and shipping shall not be provided as part of the Contractor's price proposal.

The Government assumes an annual rate of inflation of 2.5% over the period of performance.

The proposed firm fixed prices shall include all regulatory telecommunications charges and fees as well as all applicable Federal, State, and local taxes and duties.

All prices shall include the 2% GSA Management Fee. Prices shall be specified and billed in United States dollar/currency (USD).

The CLINs for STO #1 (Attachment J-8) are:

- Satellite Communications Terminal and Equipment
- Satellite Communications Terminal and Equipment (Labor)



- Satellite Communications Terminal and Equipment (Spares/Warranty)
- Program Management
- Space Segment
- Teleport Service
- Terrestrial Service
- Training - Materials & Labor
- Frequency Clearances and Approvals
- Frequency Clearances and Approvals (Renewals)
- Network Management and Operations Support (Equipment)
- Network Management and Operations Support (Labor)
- Network Management and Operations Support (Spares/Warranty)

Additional information to complete the worksheets in the Attachment J-9 workbook is provided in Table B.10-1 below.

Table B.10-1. CLIN Pricing Instructions STO #1 (Attachment J-9)

CLIN	Service or Product	CLIN Pricing Instructions
110001-1 thru 110001-11 FAR 52.217-8 (6 Month Extension)	Satellite Communications Terminal and Equipment	Contractors shall provide pricing for the following satellite communications terminal equipment: Laptops, and VoIP phone. No labor. Terminal suites should include all necessary satellite communications Radio Frequency (RF) equipment; baseband equipment; time division multiple access (TDMA) modem; two laptop computers; two Voice over Internet Protocol (VoIP) telephones; and all ancillary equipment (e.g., cables, connectors, and power cabling for a complete deployable communications solution). This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 110001.
110001a-1 thru 110001a-11 FAR 52.217-8 (6 Month Extension)	Satellite Communications Terminal and Equipment (Labor)	Contractors shall provide pricing for the following labor associated with CLIN 110001: Yrs 1 & 6: Provide Integration, Testing, and Installation labor costs for all equipment provided in CLIN 110001. Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services to support operations and maintenance for equipment provided in CLIN 110001. Do not include travel, shipping or equipment in CLIN 110001a.
110001b-1 thru 110001b-11 FAR 52.217-8	Satellite Communications Terminal and Equipment	Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLIN 110001. This includes management (labor) for spares and warranty activities.



(6 Month Extension)	(Spares/Warranty)	Do not include travel or shipping in CLIN 110001b.
110002-1 thru 110002-11 FAR 52.217-8 (6 Month Extension)	Program Management	Contractors shall provide pricing for labor related to the following: Start-up labor costs, contract initiation, information assurance costs and system engineering costs proposed throughout the contract lifecycle (5-year base period, plus the two option periods and the 6-month extension), system documentation, configuration management documentation and system O&M Manuals. Additionally, any other program management related labor required for the Contractor's solution should be included in CLIN 110002. Do not include travel or equipment in CLIN 110002.
110003-1 thru 110003-11 FAR 52.217-8 (6 Month Extension)	Space Segment	Contractors shall provide pricing for space segment bandwidth. Contractors shall provide the amount of bandwidth (MHz) proposed in the Column D description (entitled "Contractor Provided Description of Service/Product"). Note that If any other cost elements (such as teleport services) are proposed, they must be described (in full) both in Column D and in the Contractor's Price Narrative referenced in Section B. This CLIN should also include the cost of any "occasional satellite use cost" if proposed as part of the technical approach. Do not include travel or shipping in CLIN 110003.
110004-1 thru 110004-11 FAR 52.217-8 (6 Month Extension)	Teleport Service	Contractors shall provide pricing for teleport services only and must include any associated labor. Note that if teleport services are not included as part of the space segment costs identified in CLIN 110003, the teleport services costs must be identified in CLIN 110004 (to include any associated labor) and must be described (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B. Contractors shall also include rack space for GFE if a part of the Contractor's technical approach. Do not include travel or shipping in CLIN 110004.
110005-1 thru 110005-11 FAR 52.217-8 (6 Month Extension)	Terrestrial Service	Contractors shall provide pricing for terrestrial service and include associated labor. Do not include travel or shipping in CLIN 110005.

<p>110006-1 thru 110006-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Training - Materials & Labor</p>	<p>Contractor's shall provide pricing to Include the cost to develop and produce a training plan. This CLIN should include all training materials (i.e. student handouts/guides) and labor cost for instructors to deliver the training. Training is required for the entire period of performance (5-year base period, plus the two option periods and the 6-month extension).</p> <p>Do not include travel or shipping in CLIN 110006.</p>
<p>110007-1 thru 110007-11 FAR 52.217-8 (6 Month Extension))</p>	<p>Frequency Clearances and Approvals</p>	<p>Contractors shall price the cost to establish frequency clearances and approvals for each of the following countries: Bahrain, Germany, Kuwait, Qatar, Saudi Arabia, United Arab Emirates. Contractors shall also identify the timeframes (e.g. 5 years) of the frequency clearance's initial expiration/duration and must describe this information (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B.</p> <p>Contractor's price shall be the sum total of the frequency clearances and approvals costs for the six countries identified above. (See - Note #1 below for example).</p> <p>Do not include travel or shipping in CLIN 110007.</p>
<p>110007a-1 thru 110007a-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Frequency Clearances and Approvals (Renewals)</p>	<p>Contractors shall price the frequency clearance renewal fees for each of the following countries: Bahrain, Germany, Kuwait, Qatar, Saudi Arabia, United Arab Emirates. Contractors shall also provide the timeframes (e.g. 1 year) and must describe this information (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B. Contractors shall not provide pricing in Year 1 for CLIN 110007a. Pricing for CLIN 110007a (if applicable) should be provided in Years 2 thru 10 and the 6 month extension.</p> <p>Contractor's price shall be the sum total of the frequency clearances and approval renewals costs for the six countries identified above. (See Note #2 below).</p> <p>Do not include travel or shipping in CLIN 110007a.</p>


110008-1 thru 110008-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Equipment)	Contractors shall provide pricing for network management and operations support equipment. This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 110008.
110008a-1 thru 110008a-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Labor)	Contractors shall provide pricing for the following labor associated with CLIN 110008: Yrs 1 & 6: Provide Integration, Testing, and Installation labor costs for all equipment provided in CLIN 110008. Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services (including Help Desk and NOC) to support operations and maintenance for equipment provided in CLIN 110008. Do not include travel or equipment in CLIN 110008a.
110008b-1 thru 110008b-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Spares/Warranty)	Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLIN 110008. This includes management (labor) for spares and warranty activities. Do not include travel or shipping in CLIN 110008b.

Notes

1. Frequency Clearances and Approvals

In addition to the Contractor’s pricing the cost to establish frequency clearances and approvals for each of the identified six countries under J-8, the Contractor shall also identify the timeframes (e.g. 5 years) of the frequency clearance's initial expiration/duration. This information must be described in full in both the Contractor's Price Narrative and in Column D of the pricing spreadsheet. Additionally, the Contractor’s submitted price shall be the sum total of the frequency clearances and approvals for the identified six countries. See example below. Note that “the frequency clearance terms and costs identified in the following example are provided for illustration purposes only and should not be construed as actual term lengths and actual frequency clearances and approval costs established by the individual countries”. It is the Contractors responsibility to obtain the accurate frequency terms and pricing of the frequency clearances and approvals for each of the respective countries. Note that all applicable frequency clearances and approvals are required per each terminal in each country.

Table B.10-1a Frequency Clearances and Approvals STO #1 – Example

Country	Frequency Clearance Term	Number of Required Frequency Clearances	Terminal Quantity	Frequency Clearance Unit Cost	Frequency Clearance Total Extended Cost
Bahrain	Assumes Initial Frequency Clearance is Valid for 2 Years Initial Frequency Clearance Required In: Yr 1, Yr 3, Yr 5, Yr 7, Yr 9 and Yr 11	6	10	\$15,000.00	\$150,000.00
Germany	Assumes Initial Frequency Clearance is Valid for 5 Years Initial Frequency Clearance Required In: Yr 1, Yr 6 and Yr 11	3	10	\$7,000.00	\$70,000.00
Kuwait	Assumes Initial Frequency Clearance is Valid for 1 Year Initial Frequency Clearance Required In Each Year: Yr 1 thru Yr 11	11	10	\$9,000.00	\$90,000.00
Qatar	Assumes Initial Frequency Clearance is Valid for 4 Years Initial Frequency Clearance Required In: Yr 1, Yr 5 and Yr 9	3	10	\$7,500.00	\$75,000.00
Saudi Arabia	Assumes Initial Frequency Clearance is Valid for 3 Years Initial Frequency Clearance Required In: Yr 1, Yr 4, Yr 7 and Yr 10	4	10	\$12,000.00	\$120,000.00
United Arab Emirates	Assumes Initial Frequency Clearance is Valid for 6 Years Initial Frequency Clearance Required In: Yr 1 and Yr 7	2	10	\$8,500.00	\$85,000.00
Total Frequency Clearance Cost:					\$590,000.00

The total sum of the frequency clearances and approvals identified in the above example is \$590K. This dollar amount should be entered into the following spreadsheet: Attachment J-9 (STO #1), CLIN Number 110007-1 (Frequency Clearances and Approvals), Cell G28. Contractors shall include their itemized cost breakout for the frequency clearances and approvals in their price narrative.

2. Frequency Clearances and Approvals (Renewals)

Contractors shall not provide pricing for Contract Year 1 under the “Frequency Clearances and Approvals (Renewals)” CLIN. The Contractor’s submitted price shall be the sum total of the frequency clearances and approval renewals for the identified six countries for contract years two thru 10 plus the FAR 52.217-8 six-month extension in which applicable frequency clearances and approval renewal charges are incurred. (See example below). Note that “the frequency clearance renewals terms and costs identified in the following example are provided for illustration purposes only and should not be construed as actual term lengths and actual frequency clearances renewal costs established by the individual countries”. It is the Contractors responsibility to obtain the accurate frequency terms and pricing of the frequency clearances renewals for each of the respective countries. Note that all applicable frequency clearances and approval renewals are required per each terminal in each country.

Table B.10-1b Frequency Clearances and Approvals Renewals STO #1 - Example



Country	Frequency Clearance Renewals Required (For Contract Year 4)	Number of Required Frequency Renewals	Terminal Quantity	Frequency Renewal Unit Cost	Frequency Renewal Total Extended Cost
Bahrain	Assumes The Initial Frequency Clearance is Valid for 2 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 4, Yr 6, Yr 8 and Yr 10	5	10	\$4,000.00	\$40,000.00
Germany	Assumes The Initial Frequency Clearance is Valid for 5 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 5, Yr 7, Yr 8, Yr 9 and Yr 10	8	10	\$3,000.00	\$30,000.00
Kuwait	Assumes The Initial Frequency Clearance is Valid for 1 Year The Renewals Are Not Required	0	10	\$4,000.00	\$0.00
Qatar	Assumes The Initial Frequency Clearance is Valid for 4 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 6, Yr 7, Yr 8, Yr 10 and Yr 11	8	10	\$2,500.00	\$25,000.00
Saudi Arabia	Assumes The Initial Frequency Clearance is Valid for 3 Years. The Renewal is Valid For 1 Year: Renewals are Required In: Yr 2, Yr 3, Yr 5, Yr 6, Yr 8, Yr 9 and Yr 11	7	10	\$2,000.00	\$0.00
United Arab Emirates	Assumes The Initial Frequency Clearance is Valid for 6 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 5, Yr 6, Yr 8, Yr 9 and Yr 10	8	10	\$1,000.00	\$10,000.00
Total Frequency Renewal Cost:					\$105,000.00

The total sum of the frequency clearances renewals identified in the above example is \$105K. This dollar amount should be entered into the following spreadsheet: Attachment J-9 (STO #1), CLIN Number 110007a-1, (Frequency Clearances and Approvals (Renewals)), Cell G31. Contractors shall include their itemized cost breakout for the frequency clearances and approval renewals in their price narrative.

B.10.3 PRICING INSTRUCTIONS FOR STO #2 (Attachment J-10)

The Contractor shall provide firm fixed prices for the items listed in the contract line item number (CLIN) list in Section J, Attachment J-11a or J-11b according to the Section B pricing tables, including labor categories and number of hours for each category as necessary. Each proposed labor category shall include position title and definition. Travel expenses and shipping shall not be provided as part of the Contractor's price proposal.

The Government assumes an annual rate of inflation of 2.5% over the period of performance.

The proposed firm fixed prices shall include all regulatory telecommunications charges and fees as well as all applicable Federal, State, and local taxes and duties.

All prices shall include the 2% GSA Management Fee. Prices shall be specified and billed in United States dollar/currency (USD).

The Fixed Satellite Solution CLINs for STO #2 (Attachment J-10) are:

- Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)
- Remote Site Equipment (No Solar Required: Chile and Argentina)
- Remote Site Equipment (Labor)



- Remote Site Equipment (Spares/Warranty)
- Program Management
- Space Segment
- Teleport Service
- Terrestrial Service
- Frequency Clearances and Approvals
- Frequency Clearances and Approvals (Renewals)
- Network Management and Operations Support (Equipment)
- Network Management and Operations Support (Labor)
- Network Management and Operations Support (Spares/Warranty)

Additional information to complete the worksheets in the Attachment J-11a workbook is provided in Table B.10-2 below.

Table B.10-2. CLIN Pricing Instructions STO #2, Fixed (Attachment J-11a)

CLIN	Service or Product	CLIN Pricing Instructions
210001-1 thru 210001-11 FAR 52.217-8 (6 month extension)	Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)	Contractors shall provide pricing for all equipment proposed in the technical solution: 1. Satellite Terminals 2. Solar Array 3. Batteries 4. Environmental Enclosure 5. Ancillary Network Components This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210001.
210001a-1 thru 210001a-11 FAR 52.217-8 (6 Month Extension)	Remote Site Equipment (No Solar Required: Chile and Argentina)	Contractors shall provide pricing for all equipment proposed in the technical solution: 1. Satellite Terminals 2. Environmental Enclosure 3. Ancillary Network Components 4. Batteries This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210001a.
210001b-1 thru 210001b-11 FAR 52.217-8 (6 Month Extension)	Remote Site Equipment (Labor)	Contractors shall provide pricing for the following labor associated with CLINs 210001 and/or 210001a: Yrs 1 & 6: Provide Integration, Testing, and Installation labor costs for all equipment provided in CLINs 210001 and/or 210001a. Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services to support operations and maintenance for equipment provided in CLINs 210001 and/or 210001a.

		Do not include travel, shipping or equipment in CLIN 210001b.
210001c-1 thru 210001c-11 FAR 52.217-8 (6 Month Extension)	Remote Site Equipment (Spares/Warranty)	Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLINs 210001 and/or 210001a. This includes management (labor) for spares and warranty activities. Do not include travel or shipping in CLIN 210001c.
210002-1 thru 210002-11 FAR 52.217-8 (6 Month Extension)	Program Management	Contractors shall provide pricing for labor related to the following: Start-up labor costs, contract initiation, information assurance costs and system engineering costs proposed throughout the contract lifecycle (5-year base period, plus the two option periods and the 6-month extension), system documentation, configuration management documentation and system O&M Manuals. Additionally, any other program management related labor required for the Contractors solution should be included in CLIN 210002. Do not include travel or equipment in CLIN 210002.
210003-1 thru 210003-11 FAR 52.217-8 (6 Month Extension)	Space Segment	Contractors shall provide pricing for space segment bandwidth. In addition Contractors shall also identify the amount of bandwidth (MHz) proposed in Column D (entitled "Contractor Provided Description of Service/Product"). Note that If any other cost elements (such as teleport services) are proposed, they must be described (in full) both in Column D and in the Contractor's Price Narrative referenced in Section B. This CLIN should also include the cost of any "occasional satellite use cost" if proposed as part of the technical approach. Do not include travel or shipping in CLIN 210003.
210004-1 thru 210004-11 FAR 52.217-8 (6 Month Extension)	Teleport Service	Contractors shall provide pricing for teleport services only and must include any associated labor. Note that if teleport services are not included as part of the space segment costs identified in CLIN 210003, the teleport services costs must be identified in CLIN 210004 (to include any associated labor) and must be described (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B. Contractor's shall also include rack space for GFE if a part of the Contractor's technical approach. Do not include travel or shipping in CLIN 210004.

210005-1 thru 210005-11 FAR 52.217-8 (6 Month Extension)	Terrestrial Service	Contractors shall provide pricing for terrestrial service and include associated labor. Do not include travel or shipping in CLIN 210005.
210006-1 thru 210006-11 FAR 52.217-8 (6 Month Extension)	Frequency Clearances and Approvals	Contractors shall price the cost to establish frequency clearances and approvals for each of the following countries: Argentina, Bolivia, Brazil, Chile, Peru and Venezuela. Contractors shall also identify the timeframes (e.g. 5 years) of the frequency clearance's initial expiration/duration and must describe this information (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B. Contractor's price shall be the sum total of the frequency clearances and approvals costs for the six countries identified above. (See - Note #1 below for example). Do not include travel or shipping in CLIN 210006.
210006a-1 thru 210006a-11 FAR 52.217-8 (6 Month Extension)	Frequency Clearances and Approvals (Renewals)	Contractors shall price the frequency clearance renewal fees for each of the following countries: Argentina, Bolivia, Brazil, Chile, Peru and Venezuela. Contractors shall also provide the timeframes (e.g. 1 year) and must describe this information (in full) both in Column D (entitled "Contractor Provided Description of Service/Product") and in the Contractor's Price Narrative referenced in Section B. Contractors shall not provide pricing in Year 1 for CLIN 210006a. Pricing for CLIN 210006a (if applicable) should be provided in Years 2 thru 10 and the 6 month extension. Contractor's price shall be the sum total of the frequency clearances and approval renewals costs for the six countries identified above. (See Note #2 below). Do not include travel or shipping in CLIN 210006a.
210007-1 thru 210007-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Equipment)	Contractors shall provide pricing for network management and operations support equipment. This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210007.
210007a-11 thru 210007a-11 FAR 52.217-8 (6 Month)	Network Management and Operations Support (Labor)	Contractors shall provide pricing for the following labor associated with CLIN 210007: Yrs 1 & 6: Provide Integration, Testing, and Installation

Extension)		<p>labor costs for all equipment provided in CLIN 210007 and 210007b.</p> <p>Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services (including Help Desk and NOC) to support operations and maintenance for equipment provided in CLIN 210007.</p> <p>Do not include travel, shipping or equipment in CLIN 210007a.</p>
210007b-1 thru 210007b-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Spares/Warranty)	<p>Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLIN 210007a. This includes management (labor) for spares and warranty activities.</p> <p>Do not include travel or shipping in CLIN 210007b.</p>

Notes

1. Frequency Clearances and Approvals

In addition to the Contractor’s pricing the cost to establish frequency clearances and approvals for each of the identified six countries under J-10, the Contractor shall also identify the timeframes (e.g. 5 years) of the frequency clearance's initial expiration/duration. This information must be described in full in both the Contractor's Price Narrative and in Column D of the pricing spreadsheet. Additionally, the Contractor’s submitted price shall be the sum total of the frequency clearances and approvals for the identified six countries. See example below. Note that “the frequency clearance terms and costs identified in the following example are provided for illustration purposes only and should not be construed as actual term lengths and actual frequency clearances and approval costs established by the individual countries”. It is the Contractor's responsibility to obtain the accurate frequency terms and pricing of the frequency clearances and approvals for each of the respective countries. Note that all applicable frequency clearances and approvals are required per each terminal in each country.

Table B.10-2a Frequency Clearances and Approvals STO #2 – Example

Country	Frequency Clearance Term	Number of Required Frequency Clearances	Terminal Quantity	Frequency Clearance Unit Cost	Frequency Clearance Total Extended Cost
Argentina	Assumes Initial Frequency Clearance is Valid for 2 Years Initial Frequency Clearance Required In: Yr 1, Yr 3, Yr 5, Yr 7, Yr 9 and Yr 11	6	10	\$8,000.00	\$80,000.00
Bolivia	Assumes Initial Frequency Clearance is Valid for 5 Years Initial Frequency Clearance Required In: Yr 1, Yr 6 and Yr 11	3	10	\$6,000.00	\$60,000.00
Brazil	Assumes Initial Frequency Clearance is Valid for 1 Year Initial Frequency Clearance Required In Each Year: Yr 1 thru Yr 11	11	10	\$12,500.00	\$125,000.00
Chile	Assumes Initial Frequency Clearance is Valid for 4 Years Initial Frequency Clearance Required In: Yr 1, Yr 5 and Yr 9	3	10	\$8,500.00	\$85,000.00
Peru	Assumes Initial Frequency Clearance is Valid for 3 Years Initial Frequency Clearance Required In: Yr 1, Yr 4, Yr 7 and Yr 10	4	10	\$9,000.00	\$90,000.00
Venezuela	Assumes Initial Frequency Clearance is Valid for 6 Years Initial Frequency Clearance Required In: Yr 1 and Yr 7	2	10	\$7,500.00	\$75,000.00
Total Frequency Clearance Cost:					\$515,000.00

The total sum of the frequency clearances and approvals identified in the above example is \$515K. This dollar amount should be entered into the following spreadsheet: Attachment J-11a (STO #2), CLIN Number 210006-1 (Frequency Clearances and Approvals), Cell G28. Contractors shall include their itemized cost breakout for the frequency clearances and approvals in their price narrative.

2. Frequency Clearances and Approvals (Renewals)

Contractors shall not provide pricing for Contract Year 1 under the “Frequency Clearances and Approvals (Renewals)” CLIN. The Contractor’s submitted price shall be the sum total of the frequency clearances and approval renewals for the identified six countries for contract years two thru 10 plus the FAR 52.217-8 six-month extension in which applicable frequency clearances and approval renewal charges are incurred. (See example below). Note that “the frequency clearance renewals terms and costs identified in the following example are provided for illustration purposes only and should not be construed as actual term lengths and actual frequency clearances renewal costs established by the individual countries”. It is the Contractors responsibility to obtain the accurate frequency terms and pricing of the frequency clearances renewals for each of the respective countries. Note that all applicable frequency clearances and approval renewals are required per each terminal in each country.

Table B.10-2b Frequency Clearances and Approvals Renewals STO #2 – Example

Country	Frequency Clearance Renewal Required (For Contract Year 8)	Number of Required Frequency Renewals	Terminal Quantity	Frequency Renewal Unit Cost	Frequency Renewal Total Extended Cost
Argentina	Assumes The Initial Frequency Clearance is Valid for 2 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 4, Yr 6, Yr 8 and Yr 10	5	10	\$3,000.00	\$30,000.00
Bolivia	Assumes The Initial Frequency Clearance is Valid for 5 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 5, Yr 7, Yr 8 , Yr 9 and Yr 10	8	10	\$2,000.00	\$0.00
Brazil	Assumes The Initial Frequency Clearance is Valid for 1 Year The Renewals Are Not Required	0	10	\$1,500.00	\$15,000.00
Chile	Assumes The Initial Frequency Clearance is Valid for 4 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 6, Yr 7, Yr 8 , Yr 10 and Yr 11	8	10	\$3,500.00	\$35,000.00
Peru	Assumes The Initial Frequency Clearance is Valid for 3 Years. The Renewal is Valid For 1 Year. Renewals are Required In: Yr 2, Yr 3, Yr 5, Yr 6, Yr 8 , Yr 9 and Yr 11	7	10	\$4,000.00	\$40,000.00
Venezuela	Assumes The Initial Frequency Clearance is Valid for 6 Years. The Renewal is Valid For 1 Year. Renewals Are Required In: Yr 2, Yr 3, Yr 4, Yr 5, Yr 6, Yr 8 , Yr 9 and Yr 10	8	10	\$1,000.00	\$10,000.00
Total Frequency Renewal Cost:					\$130,000.00

The total sum of the frequency clearances renewals identified in the above example is \$130K. This dollar amount should be entered into the following spreadsheet: Attachment J-11a (STO #2), CLIN Number 210006a-1, (Frequency Clearances and Approvals (Renewals)), Cell G31. Contractors shall include their itemized cost breakout for the frequency clearances and approval renewals in their price narrative.

The Mobile Satellite Solution CLINs for STO #2 (J-10) are:

- Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)
Remote Site Equipment (No Solar Required: Chile and Argentina)
- Remote Site Equipment (Labor)
- Remote Site Equipment (Spares/Warranty)
- Program Management
- Space Segment Service + Teleport Service
- Network Management & Operations Support (Equipment)
- Network Management & Operations Support (Labor)
- Network Management & Operations Support (Spares/Warranty)

Additional information to complete the worksheets in the Attachment J-11b workbook is provided in Table B.10-3 below.

Table B.10-3. CLIN Pricing Instructions STO #2, Mobile (Attachment J-11b)

CLIN	Service or Product	CLIN Pricing Instructions

<p>210001-1 thru 210001-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Remote Site Equipment (Solar Required: Bolivia, Brazil, Peru and Venezuela)</p>	<p>Contractors shall provide pricing for all equipment proposed in the technical solution:</p> <ol style="list-style-type: none"> 1. Satellite Terminals 2. Solar Array 3. Batteries 4. Environmental Enclosure 5. Ancillary Network Components <p>This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210001.</p>
<p>210001a-1 thru 210001a-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Remote Site Equipment (No Solar Required: Chile and Argentina)</p>	<p>Contractors shall provide pricing for all equipment proposed in the technical solution:</p> <ol style="list-style-type: none"> 1. Satellite Terminals 2. Environmental Enclosure 3. Ancillary Network Components 4. Batteries <p>This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210001a.</p>
<p>210001b-1 thru 210001b-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Remote Site Equipment (Labor)</p>	<p>Contractors shall provide pricing for the following labor associated with CLINs 210001 and/or 210001a:</p> <p>Yrs 1 & 6: Provide Integration, Testing, and Installation labor costs for all equipment provided in CLINs 210001 and/or 210001a.</p> <p>Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services to support operations and maintenance for equipment provided in CLINs 210001 and/or 210001a and 210001c.</p> <p>Do not include travel, shipping or equipment in CLIN 210001b.</p>
<p>210001c-1 thru 210001c-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Remote Site Equipment (Spares/Warranty)</p>	<p>Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLINs 210001 and/or 210001a. This includes management (labor) for spares and warranty activities.</p> <p>Do not include travel or shipping in CLIN 210001c.</p>
<p>210002-1 thru 210002-11 FAR 52.217-8 (6 Month Extension)</p>	<p>Program Management</p>	<p>Contractors shall provide pricing for labor related to the following: Start-up labor costs, contract initiation, information assurance costs and system engineering costs proposed throughout the contract lifecycle (5-year base period, plus the two option periods and the 6-month extension), system documentation, configuration management documentation and system O&M Manuals. Additionally, any other program management related labor required for the Contractors solution should be included in CLIN 210002.</p>

		Do not include travel or equipment in CLIN 210002.
210003-1 thru 210003-11 FAR 52.217-8 (6 Month Extension)	Space Segment Service + Teleport Service	Contractors shall provide pricing for space segment bandwidth. In addition Contractors shall also identify the amount of bandwidth (MB) proposed in Column D (entitled "Contractor Provided Description of Service/Product"). Note that If any other cost elements (such as teleport services) are proposed, they must be described (in full) both in Column D and in the Contractor's Price Narrative referenced in Section B. This CLIN should also include the cost of any "occasional satellite use cost" if proposed as part of the technical approach. Do not include travel or shipping in CLIN 210003.
210004-1 thru 210004-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Equipment)	Contractors shall provide pricing for network management and operations support equipment. This CLIN is priced in Years 1 and 6 only. Do not include travel or shipping in CLIN 210004.
210004a-1 thru 210004a-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Labor)	Contractors shall provide pricing for the following labor associated with CLIN 210004: Yrs 1 & 6: Provide Integration, Testing, and Installation labor costs for all equipment provided in CLIN 210004. Yrs 2-5, 7-10 + 6-month extension: Provide labor costs for services (including Help Desk and NOC) to support operations and maintenance for equipment provided in CLIN 210004. Do not include travel, shipping or equipment in CLIN 210004a.
210004b-1 thru 210004b-11 FAR 52.217-8 (6 Month Extension)	Network Management and Operations Support (Spares/Warranty)	Contractors shall provide pricing for spares and warranty to support operations and maintenance for all equipment provided in CLIN 210004. This includes management (labor) for spares and warranty activities. Do not include travel or shipping in CLIN 210004b.

(END OF SECTION B)



SECTION C

DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

C.1 OVERVIEW

C.1.1 CONTRACT OBJECTIVE

C.1.1.1 The overarching objective for Complex Commercial SATCOM Solutions (CS3) is to create contracts as flexible and agile as possible to meet and satisfy the widely differing requirements of the Federal Government organizations both now and for the next decade and beyond. CS3 is intended to meet program goals for:

- Service Continuity
- Highly Competitive Prices
- High-Quality Service
- Full Service Vendors
- Operations Support
- Transition Assistance and Support
- Opportunities for Technical Innovation

C.1.1.2 Contractors are sought who will provide worldwide commercial satellite communications (COMSATCOM) Complex Solutions. COMSATCOM Complex Solutions comprise customized engineered solutions to meet customers' unique COMSATCOM needs. These solutions may include any combination of fixed satellite services and/or mobile satellite services, components, and/or service enabling authorizations (e.g., host nation approvals, landing rights, frequency clearances, etc.) and components and ancillary equipment such as terminals, teleports, terrestrial tail circuits, Subscriber Identity Module (SIM) cards, and peripherals.

C.1.1.3 COMSATCOM Complex Solutions may include, but are not limited to, design, development, licensing, integration, installation, testing, network management, engineering, full lifecycle logistics and operations support, and training. Delivered solutions may be turnkey systems comprising all elements of a system, or delivered solutions may be limited to integration of specific components with existing Government-provided elements. Examples of the types of COMSATCOM Complex Solutions the Contractor shall have the capability to deliver are included in this section; however, the specific COMSATCOM Complex Solutions to be procured will be defined in subsequent Task Orders.



C.1.2 EMERGING TECHNOLOGY AND SECURITY

The Government recognizes that satellite technologies and services are rapidly evolving. Accordingly, the Government anticipates that services and solutions available under CS3 will be increased, enhanced, and upgraded as these improvements become available to COMSATCOM customers. It is anticipated that over the life of the CS3 contracts, the current information assurance policies and procedures for COMSATCOM Complex Solutions will continue to evolve to address system vulnerabilities and cyber-threats.

C.2 SUMMARY OF REQUIREMENTS

Unless otherwise instructed in this Contract, the Contractor is solely responsible for all requirements stated herein.

C.2.1 MANAGEMENT REQUIREMENTS

C.2.1.1 Program Management

C.2.1.1.1 The Contractor shall employ project management processes and resources needed to plan, direct, coordinate, and implement the contract as well as control the requirements contained in the contract and priced Task Orders. The Contractor shall have the capability to manage multiple simultaneous Task Orders of varying complexity at worldwide locations, including:

- Methodologies and tools for planning the activities of its team(s)
- Scheduling, organizing, and deploying resources
- Controlling task execution, monitoring progress, and resolving critical issues

C.2.1.1.2 The Contractor shall furnish effective and proactive management of the full Task Order lifecycle for COMSATCOM Complex Solution to include award, Task Order kickoff, transition and onboarding, design, procurement, development and staging, fielding, testing and integration, system acceptance, on-going maintenance and operational support. The Contractor shall manage and minimize Task Order risks at all subcontract tiers.

C.2.1.1.3 The Contractor shall implement and maintain a governance and reporting structure that provides transparency and Government access to cost, schedule, and performance metrics, and supports timely delivery of services and accurate invoicing.



C.2.1.1.4 The Contractor shall manage resources as required throughout the Task Order lifecycle to include staff recruitment, training and evaluation of performance. The Contractor shall have the capability to manage resources when there are reductions or surge in Task Order workload, and when there are requirement changes necessitating reallocation of resources.

C.2.1.1.5 The Contractor shall document work to be allocated to Subcontractors and the processes for managing Subcontractors. The Contractor shall employ metrics that will be utilized with the Government and with Subcontractors to provide effective management of Task Order performance.

C.2.1.1.6 On a Task Order basis, the Contractor shall provide resumes for personnel contributing to a COMSATCOM Complex Solution as requested to address specific personnel requirements.

C.2.1.2 System Engineering

C.2.1.2.1 The Contractor shall develop and document an engineered solution that addresses all requirements as outlined in this contract and the specific Task Order.

C.2.1.2.2 The Contractor shall develop and document an engineered solution that identifies all equipment and resources proposed to satisfy the Task Order.

C.2.1.2.3 The Contractor shall develop and document an engineered solution that provides the Contractor recommended plans to replace equipment and resources in case of failure, except in those cases where the Government has specific sparing requirements.

C.2.1.2.4 The Contractor shall develop and document an engineered solution that addresses the use of Government furnished materials and resources as specified in the Task Order.

C.2.1.2.5 The Contractor shall develop and document an engineered solution that implements the necessary quality processes and quality control. The Contractor shall provide the necessary infrastructure and practices to ensure service availability requirements identified in the Task Order.

C.2.1.2.6 The Contractor shall develop and document an engineered solution that effectively identifies and assesses risk. The Contractor shall document and implement a risk management strategy for the Task Order.



C.2.1.2.7 The Contractor shall update the engineered solution to reflect all Task Order modifications and incorporate Engineering Change Proposals (ECPs) as required.

C.2.1.2.8 The Contractor shall ensure any Network Operations Center (NOC) identified as part of the engineered solution has the following minimum functional capabilities¹:

- Spectrum and Network Monitoring
- Incident Response
- Automated Reporting

C.2.1.2.9 The Contractor shall develop and document an engineered solution that identifies the applicable performance standards, specifies the set of performance metrics for the services the Contractor proposes to use, and describes in detail the methods and measurements with which the Contractor proposes to establish compliance with the performance standards. The Government reserves the right, on a Task Order basis, to identify the performance standards, specify the performance metrics, and describe the methods and measurements to establish compliance with the performance standards.

C.2.1.3 Information Security and Risk

The Contractor shall ensure effective implementation and management of an information security program to provide security for all systems, networks, and data that support the operations of the organization. Additionally, the Contractor shall ensure that all COMSATCOM Complex Solutions provided are compliant with information assurance requirements.

C.2.1.4 Risk Management Framework

The National Institute of Standards and Technology (NIST) working with the Department of Defense and other organizations developed a common information security framework for the Federal Government and its contractors. The Risk Management Framework (RMF) replaces the traditional certification and accreditation (C&A) process and includes a continuous monitoring process. The RMF steps² include:

¹ Additional Functional Capabilities may be identified in the Task Order

² National Institute of Standards and Technology Special Publication 800-37 Guide for Applying the Risk Management Framework to Federal Information Systems: A Security Life Cycle Approach, Section 1.1 and Section 2.1

Categorize the information system and the information processed, stored, and transmitted by that system based on an impact analysis.

Select an initial set of baseline security controls for the information system based on the security categorization; tailoring and supplementing the security control baseline as needed based on an organizational assessment of risk and local conditions.

Implement the security controls and describe how the controls are employed within the information system and its environment of operation.

Assess the security controls using appropriate assessment procedures to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the system.

Authorize information system operation based on a determination of the risk to organizational operations and assets, individuals, other organizations, and the Nation resulting from the operation of the information system and the decision that this risk is acceptable.

Monitor the security controls in the information system on an ongoing basis including assessing control effectiveness, documenting changes to the system or its environment of operation, conducting security impact analyses of the associated changes, and reporting the security state of the system to designated organizational officials.

The Contractor will develop a Risk Management Framework Plan that includes processes and procedures to accomplish all of the above steps except Authorize³. The Authorize step will be completed for each Task Order by the Ordering Activity. The Risk Management Framework Plan will be a post-award contract deliverable (see Section F.6).

C.2.1.5 Climate Change Risk and Mitigation

GSA has a leading role in ensuring that the Federal Government is better prepared to cope with the consequences of climate change that present many serious risks for government operations. These risks include damage to facilities and equipment and disruptions to communications networks. Climate change risk and mitigation shall be considered in the design and operations of services to be provided under this contract.

The Contractor shall incorporate climate change adaptation strategies into risk-management programs to reduce property, infrastructure, and supply chain vulnerabilities. This includes identifying mission critical facilities, products and services, evaluating business operations and supply chains that may be vulnerable and anticipating needs that may arise from climate change.

³ NIST 800-37 Security Authorization is the official management decision given by a senior organizational official to authorize operation of an information system and to explicitly accept the risk to organizations operations and assets, individuals, other organizations, and the Nation based on the implementation of an agreed-upon set of security controls.

Executive Order (E.O.) 13693, *Planning for Federal Sustainability in the Next Decade*, requires agencies to identify and address projected impacts of climate change on mission critical communication demands and consider those impacts in operational preparedness planning. In support of this requirement, contract awardees shall prepare and update as needed a Corporate Climate Risk Management Plan that identifies, and addresses mitigation of, climate change risks to land based equipment and services associated with the satellite communication services provided under this contract. The Corporate Climate Risk Management Plan will be a post-award contract deliverable (see Section F.6).

C.2.1.6 Cost and Schedule

The Contractor shall provide customers with accurate schedules and project status, timely and accurate invoicing, and provide account information as defined in subsequent Task Orders to the Ordering Contracting Officer (OCO), Contracting Officer's Representative (COR), and Task Leads.

C.2.2 GENERAL TECHNICAL REQUIREMENTS

C.2.2.1 The Contractor shall provide complete, customized engineered COMSATCOM Complex Solutions to meet customers' unique satellite communications needs. These solutions may include any combination of fixed satellite services or mobile satellite services components, and/or service enabling components such as terminals, teleports (to include both Gateway and Telemetry, Tracking, and Control (TT&C) systems), Network Operations Centers (NOC), and terrestrial interface tail circuits. The Contractor shall also have the ability to supply licensing, integration, network management, engineering services, and any necessary ancillary equipment and services.

C.2.2.2 The Contractor shall provide the COMSATCOM system engineering design, configuration, installation, implementation, training, and on-going maintenance and operational support necessary to deliver a COMSATCOM Complex Solution. The Contractor shall design solutions that allow for purchase of solution components (where the Government retains ownership of equipment, e.g. satellite transponder) and/or leasing of solution components (where the Contractor retains ownership of equipment). The Contractor shall have the ability to provide a solution-specific combination of at least, but not limited to, the services identified below:

C.2.2.2.1 Design and Engineering Services including, but not limited to, site surveys, developing specifications, drawings, reports, schedules and other related work products, configuration, procurement, implementation, installation and testing.

C.2.2.2.2 Ongoing Maintenance and Operational Support Services including, but not limited to, network management, operations support, gateway operations, full lifecycle logistics support, quality assurance, asset management, maintenance and repair services.

C.2.2.2.3 Customer Care and Helpdesk Support including, but not limited to, facilitating satellite and network access, responding to trouble calls and complaints with identified points of contact, availability, and procedures for problem resolution, information flow, and escalation. Personnel providing Customer Care and Helpdesk Support must be English-speaking. The individual customer requirements will define the methods of customer access and hours of operation up to 24 hours per day, 7 days a week.

C.2.2.2.4 Training shall include, but is not limited to: satellite access procedures, equipment operations, and maintenance training.

C.2.3 REQUIRED COMSATCOM COMPLEX SOLUTION TYPES

C.2.3.1 COMSATCOM Complex Solutions include, but are not limited to, any combination of bandwidth, throughput, terminals, other user equipment, teleports, terrestrial tail circuits, networks, other terrestrial infrastructure, integration and engineering services, and installation, operations, and maintenance.

C.2.3.2 The Contractor solutions shall meet the Information Assurance, Responsiveness, Portability, Flexibility/Optimization, Capacity, Coverage, Net Ready (Interoperability), Network Monitoring (Net Ops), Electro Magnetic Interference (EMI) / Radio Frequency Interference (RFI) Identification, Characterization, and Geo-location, and Security requirements outlined in Section C.2.4 as assigned by the Ordering Activity on a Task Order basis.

C.2.3.3 The Contractor shall have the capability to deploy the necessary terminals, teleports, terrestrial tail circuits, networks, Integration Services, Engineering Services, Licensing, Network Management, Operations & Maintenance, and Training required by the Ordering Activity. The Contractor must provide documentation required to conduct Security Assessments and obtain a Security Authorization.⁴

C.2.3.4 The Contractor shall provide the necessary capabilities and deliver solutions of the scope herein, in response to requirements aligning with the COMSATCOM Complex Solution types described in C.2.3.4.1 through C.2.3.4.9. Additionally, content/solution types/applications (e.g., broadcast technology) that is connected to a satellite network may be considered in-scope if the majority of the solution is satellite-orientated.

⁴ See footnote 2.

C.2.3.4.1. Interactive Services. The Contractor shall have the capability to provide complete, customized engineering solutions to support 24x7 Interactive Services requirements. Interactive Services involve the ability to connect multiple locations into a real-time two-way interactive network, mostly involving audio and video. Interactive Services include Distance Learning and Telemedicine type requirements. Interactive Services are often characterized by distribution of a common information stream to multiple locations, scheduling components, and conditional access management. Interactive Services must allow for changes to the information stream, distribution locations, and network configurations. Interactive Services must also accommodate changing circumstances and variances with terrestrial communication components and systems, to address the level of customer tolerance for latency, delay, jitter, and packet loss.

C.2.3.4.2 Continuity of Operations (COOP). The Contractor shall have the capability to provide complete, customized engineering solutions to support COOP requirements. COOP involves the pre-planned establishment and deployment of a backup or alternative communications infrastructure in anticipation that a natural or human-caused event disables or destroys the normal, primary communications infrastructure and is focused on reconstitution of the critical communications functionality to continue minimal essential and/or normal operations. When the COOP capability is required, activation is often required within 24 hours. COOP includes developing an alternative for portions of, or the entirety of, the normal, primary communications infrastructure, and can be

as simple as a set of new Internet Protocol addresses or as complex as replicating the functionality of the entire primary, terrestrial infrastructure. COOP can include requiring a completely different set of hardware, personnel, and network paths, and associated terrestrial infrastructure as an ancillary component of the COMSATCOM Complex Solution.

C.2.3.4.3 Broadcast Satellite Service (BSS). The Contractor shall have the capability to provide complete, customized engineering solutions to support BSS requirements. BSS involves the collection of voice, video, and/or data into one central site and subsequent distribution of that information (typically one-way) to multiple fixed and/or mobile locations. BSS includes Streaming Media type requirements. BSS is often characterized by high bandwidth requirements, dedicated, fully utilized data streams for the duration of the broadcast, live or real-time distribution, access control for different portions of the information stream, and minimum customer tolerance for latency, delay, and jitter.



C.2.3.4.4 Fleet and Asset Tracking & Reporting Services. The Contractor shall have the capability to provide complete, customized engineering solutions to support Fleet and Asset Tracking & Reporting Services requirements. Fleet and Asset Tracking & Reporting Services involve the ability for deployed equipment (e.g., sensors) to send real-time location and/or status information or the ability to send messages or other data to the fleet. Fleet and Asset Tracking & Reporting Services include machine-to-machine (M2M) technologies and data transfer.

C.2.3.4.5 Emergency Responder Operations. The Contractor shall have the capability to provide complete, customized engineering solutions to support Emergency Responder Operations. Emergency Responder Operations involve reconstituting a communications infrastructure in response to a natural or human-caused event that disrupts or destroys the normal, pre-existing communications infrastructure. Emergency Responder Operations involves an ad-hoc, immediate need communications requirement that eventually reverts back to communications infrastructure previously used or restored. Emergency Responder Operations needs quick responsiveness from a few hours to a few days, and optimally provides interoperability among different types of responders, transportability, quick design, implementation, and activation, and the ability to reach back into headquarters and shared information sources. Additionally, it is not uncommon for the requirement to grow significantly from a small number of users (e.g., initial responders) to a large number (e.g., coordinated large-scale humanitarian effort) within a moderate period of time (e.g., within 30 days).

C.2.3.4.6 Steady State Operations. The Contractor shall have the capability to provide complete, customized engineering solutions to support Steady State Operations requirements which are generally long duration baseline communications services and infrastructure to support enduring user requirements. Steady State Operations include significant pre-planning with more time allowed for design, configuration, implementation, and activation times, ubiquitous access to collaborative and integrated users, fixed infrastructure that responds more slowly to changes, lower priority with the ability to be pre-empted by a higher priority (e.g. Emergency Responder Operations or Direct Customer Operations) short term need for the same communications resources. Steady State Operations generally has high sensitivity to the cost of the technical capability delivered.

C.2.3.4.7 Direct Customer Operations. The Contractor shall have the capability to provide complete, customized engineering solutions to support Direct Customer Operations requirements which are typically of short duration to support a specific mission. Direct Customer Operations involve the creation of a communications infrastructure to support specific Customer operations, usually because no pre-existing communications infrastructure is available. Direct Customer Operations include the ability to collaborate among various types of Customers and connect Customers operating on the tactical edge back to headquarters and shared information sources. Direct Customer Operations often require transportability and mobility, personnel and facility security, information assurance, and the ability to reconfigure and/or reconstitute quickly in response to changing situations during prosecution of the mission with real-time insight into communications networks status, and moderate to quick responsiveness requirements with deployment required in several hours to several days. These communications solutions can be high priority with the ability to pre-empt other uses of the same communications resources, and typically the cost of the solution is a much lower priority than the ability to utilize the solution as part of executing the mission. Additionally, the requirement may grow significantly from a small number of users (e.g., 50 users or less) to a much larger number within a moderate period of time (e.g., within 30 days).

C.2.3.4.8 Stand-alone Satellite Professional Support Services. **[APPLICABLE FOR SMALL BUSINESS CONCERNS ONLY].** The Contractor shall provide COMSATCOM-related Professional Support Services for all COMSATCOM Complex Solution components to include any or all support services. These services include, but are not limited to, abstract or concept studies and analysis, strategic and preliminary planning, requirements definition and analysis, evaluation of alternative technical approaches, modeling and simulation, enterprise architecture design, cost-performance trade-off analysis, feasibility analysis, regulatory compliance support, system engineering, independent verification and validation, network performance assessment, and, and Information Assurance Security Assessment and Security Authorization.

C.2.3.4.9 The Government reserves the right to issue requirements aligned with COMSATCOM Complex Solution types not included in the list above.

C.2.4 REQUIRED COMSATCOM COMPLEX SOLUTION ATTRIBUTES

Required COMSATCOM Complex Attributes are common attributes that apply to all COMSATCOM Complex solution types. These attributes are in line with the COMSATCOM attributes that were validated by the DoD Joint Staff Net-Centric Functional Capabilities Board (NC FCB) Memorandum, "The Net-Centric Assessment of Commercial Satellite Capabilities," dated 21 February 2006."

C.2.4.1 Information Assurance

C.2.4.1.1 The Contractor shall comply with: The Committee on National Security Systems Policy (CNSSP) 12, "National Information Assurance Policy for Space Systems used to Support National Security Missions," or Department of Defense Instruction (DoDI) 8581.01, "Information Assurance (IA) Policy for Space Systems Used by the Department of Defense."

C.2.4.1.2 The Contractor shall comply with the Federal Information Security Management Act of 2002 as implemented by Federal Information Processing Standards Publication 200 (FIPS 200), "Minimum Security Requirements for Federal Information and Information Systems." All Contractor solutions will be evaluated against a moderate-impact information system (per FIPS 200) that is described in the current revisions of National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53, "Security and Privacy Controls for Federal Information Systems and Organizations," NIST SP 800-37 "Guide for Applying the Risk Management Framework to Federal Information Systems", DoD Instruction (DoDI) 8500.01, "Cybersecurity," DoDI 8510.01, "Risk Management Framework (RMF) for DoD Information Technology (IT)" and associated documents.

C.2.4.1.3 On a Task Order basis, the Ordering Activity shall assign an impact level (Low, Moderate, or High, per FIPS 200, NIST SP 800-53, DoDI 8500.01 and DoDI 8510.01) prior to issuing the initial statement of work. Task Order evaluations shall consider the extent to which the Contractor solutions complies with the necessary security controls based upon the assigned impact level, command encryption/authentication, and other requirements in CNSSP 12 and/or DoDI 8581.1.



C.2.4.1.4 The Contractor's information assurance boundary is where the Contractor's services connect to the user terminals/equipment (i.e., includes satellite command encryption (ground and space); systems used in the Satellite Operations Centers (SOCs), Network Operations Centers (NOCs), Business Support Systems (BSS), and teleport; and terrestrial infrastructure required for service delivery). On a Task Order basis, the Ordering Activity shall define the IA boundary in their Statement of Work or Performance Work Statement (PWS).

C.2.4.1.5 The Ordering Activity reserves the right to independently evaluate, audit, and verify the IA compliance for any proposed or awarded COMSATCOM Complex Solution. The Contractor must provide documentation required to conduct Security Assessments and Security Authorization. All IA Security Assessments and Security Authorizations are the responsibility of the Ordering Activity.

C.2.4.2 Responsiveness

C.2.4.2.1 As specified on a Task Order basis, the Contractor shall deliver solutions in one of the following timeframes after Task Order award:

C.2.4.2.1.1 Standard Service Delivery (30 calendar days or less). Standard Service Delivery is the time required under normal conditions for COMSATCOM Complex Solutions to be available.

C.2.4.2.1.2 Accelerated Service Delivery (7 calendar days or less). Under Accelerated Service Task Orders, service acceptance testing unless otherwise required by the satellite provider or host nation shall be deferred until operations permit.

C.2.4.2.1.3 Time-Critical Service Delivery (4 hours or less). Under Time-Critical Service Task Orders, service acceptance testing unless otherwise required by the satellite provider or host nation shall be deferred until operations permit. Time-Critical Delivery shall be predicated on the availability of pre-planned engineering solutions, pre-planned line-up messages and transmission plans, pre-arranged Host Nation Agreements (HNA), terrestrial connectivity (if applicable), and frequency clearance, and the availability of contracted bandwidth.

C.2.4.2.1.4 Extended Service Delivery. The time required under extenuating circumstances to implement a Task Order after order award. Such extenuating circumstances may include extended time required for host nation agreements or landing rights, long-lead terrestrial connectivity,

or other time intensive service delivery requirements as defined in the individual Task Order. Any such extended delivery times will be negotiated between the Ordering Activity and Contractor.

C.2.4.3 Portability

C.2.4.3.1 The Contractor shall have the capability to redeploy COMSATCOM services, subject to availability. Portability shall be provided within the COMSATCOM Contractor's resources at any time as requested by the Ordering Activity and is not limited to the examples provided below. When portability is exercised, evidence of equivalent net present value (NPV⁵) shall be provided by the Contractor. Alternatively, prior to Task Order award, specific pre-defined terms and conditions for portability and related services including pricing and/or other contract terms may be negotiated and defined in the individual Task Order.

C.2.4.3.2 Portability may include moving from one transponder/satellite to another, one managed service area to another, transponded capacity redeployment between beams or transponders on a single satellite, redeployment from one frequency band to another, physical relocation of a satellite to a new orbital position, re-routing of teleport services from one teleport to another pre-defined teleport, re-routing of traffic from one terrestrial infrastructure to another pre-defined infrastructure, and movement of Network Operations Center (NOC) services from one NOC to another NOC.

C.2.4.3.3 Any changes to the network architecture as a result of portability will require the Contractor to provide updated documentation to obtain approval / review of the security authorization with the Ordering Activity.

C.2.4.4 Flexibility/Optimization

C.2.4.4.1 The Contractor shall have the capability to re-groom resources for spectral, operational, or price efficiencies. Flexibility/optimization shall be provided within the COMSATCOM Contractor's resources at any time as requested by the Ordering Activity. When flexibility/optimization is exercised, evidence of equivalent net present value (NPV⁶) shall be provided by the Contractor. The Contractor is encouraged to submit re-grooming

⁵ For example, one-year of service for a transponder valued at \$1M/year is traded for six-months of service on a transponder valued at \$2M/year.

⁶ For example, one-year of service on a less efficient arrangement of contractor resources is traded for nine-months of services on a more efficient arrangement of contractor resources that provides an operational efficiency to the Ordering Activity's customers.

approaches for Ordering Activity consideration that may increase efficiencies for existing COMSATCOM Complex Solutions. Alternatively, prior to Task Order award, specific pre-defined terms and conditions for re-grooming including pricing and/or other contract terms may be negotiated and defined in the individual Task Order.

C.2.4.4.2 Re-grooming may include, but is not limited to, analysis of space segment, teleport, and network resource utilization in order to increase the number of carriers on existing allocated bandwidth and/or terminals and/or increasing the data rates on individual Task Orders through the implementation of advanced coding, modulation, and/or hardware upgrades.

C.2.4.4.3 Any changes to the network architecture as a result of regrooming will require the Contractor to provide updated documentation to obtain approval / review of the security authorization with the Ordering Activity.

C.2.4.5 Capacity

C.2.4.5.1 The Government has requirements for scalable COMSATCOM capacity in any COMSATCOM frequency band. The Contractor must be able to provide scalable capacity in any available COMSATCOM frequency band in support of US Government COMSATCOM requirements. The Contractor must be able to demonstrate how they will provide surge capacity to the US Government when required at the individual Task Order level.

C.2.4.5.2 Any changes to the network architecture to provide surge capability will require the Contractor to provide updated documentation to obtain approval / review of the security authorization with the Ordering Activity.

C.2.4.6 Coverage

C.2.4.6.1 The Government has requirements for COMSATCOM coverage anywhere in the world and in any COMSATCOM frequency band. The Contractor must be able to provide coverage anywhere worldwide in any available COMSATCOM frequency band. Specific pre-defined coverage may be negotiated and defined in the individual Task Order.

C.2.4.7 Network Monitoring (Net Ops)

C.2.4.7.1 The Contractor shall have the capability to electronically collect and deliver near real-time spectrum and network monitoring, fault/incident/outage reporting, and information access to ensure effective and efficient operations, performance, and availability, consistent with commercial practices. Consistent with the Contractor standard management practices, the Net Ops information will be provided on a frequency (example: every 6 hours, daily) and format (example: SNMP, XML) as defined in a requirement to a location/entity/electronic interface defined by the Ordering Activity. Prior to Task Order award, specific pre-defined terms and conditions for Net Ops collection and delivery may be negotiated and defined in the individual Task Order.

C.2.4.8 EMI/RFI Identification, Characterization, and Geo-Location

C.2.4.8.1 The Contractor shall have the capability to collect and electronically report in near real-time Electro Magnetic Interference (EMI) / Radio Frequency Interference (RFI) identification, characterization, and geo-location. The Contractor shall provide best-effort capability to identify and characterize sub-carrier EMI/RFI being transmitted underneath an authorized carrier, and geo-locate the source of any and all EMI/RFI. The Contractor shall establish and use with the Ordering Activity a mutually agreed upon media and voice communications capability capable of protecting Controlled Unclassified Information (CUI).

C.2.4.9 Security

C.2.4.9.1 To ensure the capability to respond to Secret national security requirements as identified in C.2.4.9.3 – C.2.4.9.6, the CS3 Contract is requiring contractors to obtain a Secret Facility Clearance with Secret level Safeguarding, and COMSEC requirements. The DD Form 254 (Contract Security Classification Specification) reflects these requirements and is attached (see sample Contract DD Form 254 in Section J). The GSA will issue a DD Form 254 upon contract award.

C.2.4.9.2 Task orders may require and identify higher level Facility, Safeguarding, special access, and COMSEC requirements. These requirements will be identified on the agency-specific DD Form 254 to be awarded at the Task Order level. A blank DD Form 254 is available at the following site: www.dtic.mil/whs/directives/forms/eforms/dd0254.pdf

C.2.4.9.3 The Contractor is responsible for providing personnel with appropriate security clearances to ensure compliance with government security regulations, as specified within the CS3 DD 254 and Task Orders. The Contractor shall fully cooperate on all security checks and investigations by furnishing requested information to verify the Contractor employee's trustworthiness and suitability for the position. Clearances

may include Sensitive Compartmented Information (SCI), Special Access Programs (SAP), or agency-specific access, such as a Q.

C.2.4.9.4 The Contractor may be required to obtain/possess varying levels of personnel and facility security clearances up to U.S. Government TOP SECRET/Sensitive Compartmented Information (TS/SCI) or equivalent clearances assigned by the National Security Authority of a North Atlantic Treaty Organization (NATO) Member State or Major Non-NATO Ally.

C.2.4.9.5 The Contractor may be required to provide physical security (e.g., personnel or equipment protection).

C.2.4.9.6 For incident resolution involving classified matters, the Contractor shall provide appropriately cleared staff who can affect COMSATCOM services operations (example: satellite payload operations, network operations). The Contractor shall provide a minimum of one operations staff member AND a minimum of one person with the authority to commit the company if resolution requires business impacting decisions (example: Chief Executive Officer, Chief Operations Officer, etc.).

C.2.4.9.7 When Communications Security (COMSEC) or Transmission Security (TRANSEC) equipment or keying material is placed in the equipment/terminal shelter, the Contractor shall ensure compliance with applicable physical security directives/guidelines and that all deployed equipment/terminal operations and maintenance personnel shall possess the appropriate clearances, equal to or higher than the classification level of the data being transmitted. Where local regulations require use of foreign personnel for terminal operations and maintenance, then the Contractor shall ensure compliance with applicable security directives/guidelines and document to the U.S. Government's satisfaction that protective measures are in place and such individuals have equivalent clearances granted by the local host nation.

C.2.4.9.8 For classified operations security (OPSEC), the Contractor shall ensure that all personnel in direct contact with classified OPSEC indicators (example: the unit, location, and time of operations) have U.S. SECRET or higher personnel security clearances, or, as appropriate, equivalent clearances assigned by the National Security Authority of a NATO Member State or Major Non-NATO Ally, in accordance with applicable security directives and guidelines.

C.2.4.9.9 To ensure the capability of communicating classified intelligence information to satellite vendors, cleared satellite vendor staff must have access to secure voice communications for emergency purposes. Communications security (COMSEC) equipment certified by the National Security Agency (NSA) to secure critical unclassified information (CUI) and up to and including SECRET communication transmissions at all operations centers is required.

C.2.4.9.10 The Contractor shall have the capability to “mask” or “protect” users against unauthorized release of identifying information to any entity that could compromise operations security. Identifying information includes but is not limited to personal user and/or unit information including tail numbers, unit names, unit numbers, individual names, individual contact numbers, street addresses, etc.

C.2.4.10 Net Ready (Interoperability)

The Contractor shall deliver solutions that are consistent with commercial standards and practices. Contractor solutions shall have the capability to access and/or interoperate with Government or other Commercial teleports/gateways and provide enterprise service access to or among networks or enclaves. Interfaces may be identified as interoperable

on the basis of participation in a sponsored interoperability program. Any such access and/or interoperability with teleports/gateways and provisioning of enterprise service access will be defined in the individual Task Order requirements.

(END OF SECTION C)

SECTION D

PACKAGING AND MARKING

D.1 GENERAL

All information submitted to the Procuring Contracting Officer (PCO) the Program Manager (PM), the Contracting Officer's Representative (COR), or the Ordering Contracting Officer (OCO) shall clearly indicate the Contract Number, the Task Order number, and attention to the specific addressee, as applicable.

If an Ordering Agency desires other than standard packing, packaging, or markings, the Ordering Agency shall specifically define those requirements at the individual Task Order level.

D.2 UNCLASSIFIED AND CLASSIFIED MARKING

Unclassified data shall be prepared for shipment in accordance with requirements set forth by the Ordering Agency at the individual Task Order level, or if none is specified, pursuant to industry standards.

Classified reports, data, and documentation shall be prepared for shipment in accordance with requirements set forth in the Order, or if none is specified, pursuant to the National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M.

D.3 PACKING, MARKING, AND STORAGE OF EQUIPMENT

All packing, marking and storage incidental to shipping of equipment to be provided under this contract shall be made at the Contractor's expense. Such packing, supervision marking and storage costs shall not be billed to the Government. Supervision of packing and unpacking of equipment shall be furnished by the Contractor.

D.4 GENERAL SERVICES ADMINISTRATION ACQUISITION MANUAL (GSAM) CLAUSES

D.4.1 552.211-73 MARKING (FEB 1996)

(a) General requirements. Interior packages, if any, and exterior shipping containers shall be marked as specified elsewhere in the contract. Additional marking requirements may be specified on delivery orders issued under the contract. If not otherwise specified, interior packages and exterior shipping containers shall be marked in accordance with the following standards:



(1) Deliveries to civilian activities. Supplies shall be marked in accordance with Federal Standard 123, edition in effect on the date of issuance of the solicitation.

(2) Deliveries to military activities. Supplies shall be marked in accordance with Military Standard 129, edition in effect on the date of issuance of the solicitation.

(b) Improperly marked material. When Government inspection and acceptance are at destination, and delivered supplies are not marked in accordance with contract requirements, the Government has the right, without prior notice to the Contractor, to perform the required marking, by contract or otherwise, and charge the Contractor therefore at the rate specified elsewhere in this contract. This right is not exclusive, and is in addition to other rights or remedies provided for in this contract.

(End of clause)

D.4.2 552.211-75 PRESERVATION, PACKAGING, AND PACKING (FEB 1996)

Unless otherwise specified, all items shall be preserved, packaged, and packed in accordance with normal commercial practices, as defined in the applicable commodity specification. Packaging and packing shall comply with the requirements of the Uniform Freight Classification and the National Motor Freight Classification (issue in effect at time of shipment) and each shipping container of each item in a shipment shall be of uniform size and content, except for residual quantities. Where special or unusual packing is specified in an order, but not specifically provided for by the contract, such packing details must be the subject of an agreement independently arrived at between the ordering agency and the Contractor.

(End of clause)

D.4.3 552.211-77 PACKING LIST (FEB 1996)

(a) A packing list or other suitable shipping document shall accompany each shipment and shall indicate:

- (1) Name and address of the consignor;
- (2) Name and complete address of the consignee;
- (3) Government order or requisition number;
- (4) Government bill of lading number covering the shipment (if any); and
- (5) Description of the material shipped, including item number, quantity, number of containers, and package number (if any).



(b) When payment will be made by Government commercial credit card, in addition to the information in (a) above, the packing list or shipping document shall include:

(1) Cardholder name and telephone number and

(2) The term "Credit Card."

(End of clause)

D.4.4 552.211-85 CONSISTENT PACK AND PACKAGE REQUIREMENTS (JAN 2010)

The Contractor is advised that the Government will, where possible, order in full shipping containers and/or unitized loads. If volume warrants, the Government may also order in truckload or carload quantities provided such quantities do not exceed the maximum order limitation of this contract.

When the number of items per unit container, intermediate container and/or shipping container is not specified for an item, the offeror will state, in the spaces provided in the schedule of items, the number of items to be provided in each container. The quantities which are accepted at the time of award shall remain in effect throughout the term of the contract unless the Contracting Officer approves in writing a request by the Contractor to change the package quantities. Requests for changes shall be directed to the Contracting Officer or Administrative Contracting Officer, whichever is applicable.

(End of clause)

D.4.5 552.211-87 EXPORT PACKING (JAN 2010)

(a) Offerors are requested to quote, in the pricelist accompanying their offer (or by separate attachment), additional charges or net prices covering delivery of the items furnished with commercial or military export packing. Military export packing, if offered, shall be in accordance with Mil-Std-2073-1 Level A or B as specified. If commercial export packing is offered, the offer or pricelist shall include detailed specifications describing the packing to be furnished at the price quoted.

(b) Ordering activities will not be obligated to utilize the Contractor's services for export packing accepted under this solicitation, and they may obtain such services elsewhere if desired. However, the Contractor shall furnish items export packed when such packing is specified on the purchase order.

(End of clause)

D.4.6 552.211-90 SMALL PARTS (JAN 2010)

All small parts required to be furnished with machines covered by contracts resulting from this solicitation shall be packed in envelopes, sealed, identified with part numbers and quantity on outside of envelopes. Larger parts must be individually tagged and identified with part number on face of tag.

(End of clause)

D.4.7 552.211-92 RADIO FREQUENCY IDENTIFICATION (RFID) USING PASSIVE TAGS (JAN 2010)

Radio Frequency Identification shall be required on all non-bulk shipments to the Defense Logistics Agency (DLA) or Department of Defense (DoD) destinations. Shipments shall be tagged in accordance with 48 CFR clause 252.211-7006. Shipments to GSA Distribution Centers with final destinations to DLA and DoD shall be in compliance to 48 CFR 252.211-7006. Copies may be obtained from <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html>.

(End of clause)

(END OF SECTION D)