

SECTION J

LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

- J.1 LIST OF ATTACHMENTS**
- J.1.1** ATTACHMENT J-1 – Acronyms and Abbreviations
- J.1.2** ATTACHMENT J-2 – eliminated
- J.1.3** ATTACHMENT J-3 – eliminated
- J.1.4** ATTACHMENT J-4 – Small Business Subcontracting Goals Guidance and Model Subcontracting Plan
- J.1.5** ATTACHMENT J-5 – CS3 Monthly Business Volume (Sales) Report Format
- J.1.6** ATTACHMENT J-6 – CS3 Monthly Revenue Report Format
- J.1.7** ATTACHMENT J-7 – eliminated
- J.1.8** ATTACHMENT J-8 – Sample Task Order (STO) #1 - Contingency Satellite Communications System and Services
- J.1.9** ATTACHMENT J-9 – Sample Task Order (STO) #1– Excel Workbook
- J.1.10** ATTACHMENT J-10 – Sample Task Order (STO) #2 - Environmental Data Network
- J.1.11** ATTACHMENT J-11a – Sample Task Order (STO) #2 – Excel Workbook (Fixed Satellite Service solution)
ATTACHMENT J-11b – Sample Task Order (STO) #2 – Excel Workbook (Mobile Satellite Service solution)
- J.1.12** ATTACHMENT J-12 – Sample Task Order (STO) #3 -- Base Communications Network for Ouargla, Algeria
- J.1.13** ATTACHMENT J-13 – eliminated
- J.1.14** ATTACHMENT J-14 – DD Form 254 Template
- J.1.15** ATTACHMENT J-15 – DD Form 254 Template Continuation Pages
- J.1.16** ATTACHMENT J-16 – eliminated
- J.1.17** ATTACHMENT J-17– Sample Task Order Link Budget Template
- J.1.18** ATTACHMENT J-18 – eliminated



J.1.19 ATTACHMENT J-19 – eliminated

J.1.20 ATTACHMENT J-20 – eliminated

(END OF SECTION J)



ATTACHMENT J-1 ACRONYMS AND ABBREVIATIONS

ACO	Administrative Contracting Officer
ACH	Automated Clearing House
ADP	Automated Data Processing
ANC	Alaskan Native Corporations
BER	Bit Error Rate
BIR	Burst Information Rate
BOM	Bill of Materials
BSS	Business Support Systems
BSS	Broadcast Satellite Services
C&A	Certification and Accreditation
C&F	Cost and Freight
CAGE	Commercial and Government Entity
CEO	Chief Executive Officer
CFR	Code of Federal Regulations
c.i.f	Cost, Insurance, and Freight
CIR	Committed Information Rate
CLIN	Contract Line Item Number
CMMI	Capability Maturity Model Integration
CNSSP	Committee on National Security Systems Policy
CO	Contracting Officer
COO	Chief Operating Officer
COMSATCOM	Commercial Satellite Communications
COOP	Continuity of Operations
COMSEC	Communications Security
CONUS	Contiguous United States
COR	Contracting Officers Representative
COTS	Commercial Off The Shelf
CS3	Complex Commercial SATCOM Solutions
CSCSS	Contingency Satellite Communications System and Services
CTO	Chief Technology Officer
CUI	Controlled Unclassified Information
CWT	Hundredweight
DAA	Designated Accrediting Authority
DCAA	Defense Contract Audit Agency
DCMA	Defense Contract Management Agency
DISA	Defense Information Systems Agency
DISN	Defense Information Systems Network
DITCO	Defense Information Technology Contracting Organization
DLA	Defense Logistics Agency
DOC	Department of Commerce
DoD	Department of Defense
DoDD	Department of Defense Directive



DoDI	Department of Defense Instruction
DOE	Department of Energy
DPA	Delegation of Procurement Authority
DOJ	Department of Justice
DPAS	Defense Priorities and Allocation System
DSS	Defense Security Service
DSTS-G	DISN Satellite Transmission Services-Global
DTIC	Defense Technical Information Center
DUNS	Data Universal Numbering System
EAA	Environmental Assessment Agency
ECP	Engineering Change Proposal
EDI	Electronic Data Interchange
EDWOSB	Economically Disadvantaged Women-Owned Small Business
EFT	Electronic Funds Transfer
EIRP	Effective Isotropic Radiated Power
EIT	Electronic and Information Technology
EMI	Electromagnetic Interference
EPA	Environmental Protection Agency
eSRS	Electronic Subcontract Reporting System
FAPIIS	Federal Awardee Performance and Integrity Information System
FAR	Federal Acquisition Regulation
FAS	Federal Acquisition Service
f.a.s	Free Alongside Ship
FBI	Federal Bureau of Investigation
FedBizOps	Federal Business Opportunities
FCSA	Future COMSATCOM Services Acquisition
FIPS	Federal Information Processing Standards
FISMA	Federal Information Security Management Act
f.o.b	Free On Board
FOIA	Freedom of Information Act
FTR	Federal Travel Regulations
G/T	Gain to noise temperature ratio
GAO	General Accounting Office
GoS	Grade of Service
GSA	General Services Administration
GSA PCO	GSA Procuring Contracting Officer
GSAM	General Services Administration Acquisition Manual
GSAR	General Services Administration Acquisition Regulation
HAZMAT	Hazardous Materials
HAIZE	High Assurance Internet Protocol Encryptor
HNA	Host Nation Agreement
HUBZone	Historically Underutilized Business Zones (HUBZones)
IA	Information Assurance
IAW	In Accordance With
ID/IQ	Indefinite Delivery/Indefinite Quantity
IFB	Invitation For Bid



IGCE

Independent Government Cost Estimate

IP	Internet Protocol
iRAPT	Invoicing, Receipt, Acceptance, and Property Transfer
ISAC	Information Sharing and Analysis Center
ISO	International Organization for Standardization
ISR	Individual Subcontracting Report
IT	Information Technology
ITAR	International Traffic in Arms Regulations
ITS	Information Technology Services
JPAS	Joint Personnel Adjudication System
JPEG	Joint Photographic Experts Group
JTR	Joint Travel Regulations
Kps	Kilobits per second
LAN	Local Area Network
LORA	Level of Repair Analysis
LPTA	Lowest Price Technically Acceptable
M2M	Machine-to-Machine
MBI	Moderate Background Investigation
MBPS	Megabits Per Second
MBVSR	Monthly Business Volume (Sales) Report
MHz	Megahertz
MIL-STD	Military Standard
MOA	Memorandum of Agreement
MRG	Minimum Revenue Guarantee
MRR	Monthly Revenue Report
MTBF	Mean Time Between Failure
MTTR	Mean Time to Repair
NAICS	North American Industry Classification System
NASA	National Aeronautics and Space Administration
NATO	North Atlantic Treaty Organization
NIPRNET	Non-Secure Internet Protocol Router Network
NISPOM	National Industry Security Program Operating Manual
NIST	National Institute of Standards and Technology
NIST SP	National Institute of Standards and Technology Special Publication
NOC	Network Operations Center
NPV	Net Present Value
NSA	National Security Agency
OCO	Ordering Contracting Officer
OCONUS	Outside the Contiguous United States
OMB	Office of Management and Budget
OPSEC	Operations Security
OSBU	Office of Small Business Utilization
PCO	Procuring Contracting Officer
PDF	Portable Document Format
PEB	Power Equivalent Bandwidth
PNM	Price Negotiation Memorandum



POC	Point of Contact
PoP	Period of Performance
PoP	Point of Presence
POS	Point of Sale
PPIRS	Past Performance Information Retrieval System
PWS	Performance Work Statement
RAM	Reliability, Availability, and Maintainability
RMF	Risk Management Framework
RF	Radio Frequency
RFI	Radio Frequency Interference
RFID	Radio Frequency Identification
RFP	Request for Proposal
RFQ	Request for Quote
RTM	Requirement Traceability Matrix
SAM	System for Award Management
SAP	Special Access Programs
SATCOM	Satellite Communications
SBA	Small Business Administration
SBTA	Small Business Technical Advisor
SCI	Sensitive Compartmented Information
SCA	Service Contract Act
SDB	Small Disadvantaged Business
SDVOSB	Service-Disabled Veteran-Owned Small Business
SIM	Subscriber Identity Module
SIPRNET	Secure Internet Protocol Router Network
SMO	Security Management Office
SNMP	Signaling Network Management Protocol
SOC	Satellite Operations Center
SOW	Statement of Work
SP	Special Publication
SSR	Summary Subcontracting Report
STE	Secure Terminal Equipment
STO	Sample Task Order
TBD	To Be Determined
TDMA	Time Division Multiple Access
TM	Task Monitor
TO	Task Order
TOR	Task Order Request
TRANSEC	Transmission Security
TS/SCI	TOP SECRET/Sensitive Compartmented Information
TT&C	Telemetry, Tracking, and Control
U.S.	United States
U.S.C.	United States Code
USDA	United States Department of Agriculture
USG	US Government
USGO	US Government Organization



USSTRATCOM United States Strategic Command

VAR	Visit Access Request
VoIP	Voice over Internet Protocol
VOSB	Veteran-owned small business
VSAT	Very Small Aperture Terminal
WiFi	Wireless Fidelity (IEEE 802.11)
WOSB	Women-Owned Small Business
XML	eXtensible Markup Language

(END OF ATTACHMENT J-1)



ATTACHMENT J-4

SMALL BUSINESS SUBCONTRACTING GOALS GUIDANCE AND MODEL SUBCONTRACTING PLAN

Small Business Subcontracting Goals Guidance

Prior to contract award, Contractors shall provide a small business subcontracting plan in accordance with FAR Part 19. The Government expects Contractors to thoroughly review the requirements set forth in FAR 19.704, Subcontracting plan requirements, and FAR clause 52.219-9, Small Business Subcontracting Plan, before submitting their contracting plans. In accordance with FAR 19.704(d) and clause 52.219-9(g), the preference is for Contractors to submit a Commercial Plan. This type of plan shall relate to the Contractor's planned subcontracting generally, for both commercial and government business, rather than solely to the CS3 contract.

The General Services Administration (GSA) fiscal year 2016 subcontracting goals appear in the table below.

Small Business Category	Goal
Small Business	36.5%
Small Disadvantaged Business	5.00%
Women-owned Small Business	5.00%
HUBZone Small Business	3.00%
Service-Disabled Veteran-owned Small Business	3.00%



Model Subcontracting Plan

Cover Page To Model Subcontracting Plan

IMPORTANT: Notice to Contractors: GSA provides this model plan as a tool. You must adapt this model plan to fit your subcontracting situation. The plan is NOT a fill-in-the-blank form and you must remove instructional language. This model does not establish minimum requirements for an acceptable plan. The model reflects objectives GSA encourages contractors to adopt. GSA expects Contractors to thoroughly review the requirements set forth in FAR 19.704, Subcontracting Plan Requirements and FAR clause 52.219-9, Small Business Subcontracting Plan before submitting their subcontracting plans.

Definitions of Types of Plans:

- **COMMERCIAL PLAN:** Covers the Contractor's fiscal year and applies to the entire production of commercial items sold by either the entire company or a portion thereof (e.g., division, plant, or product line.) Note that this type of plan shall relate to the Contractor's planned subcontracting generally, for both commercial and government business, rather than solely to the government contract. Per FAR 19.704(d) and clause 52.219-9(g), this is the preferred type of plan for contractors furnishing commercial items. Once a contractor's commercial plan has been approved, the Government shall not require another subcontracting plan from the same contractor while the plan remains in effect, as long as the product or service being provided by the contractor continues to meet the definition of a commercial item. The contractor shall— (1) Submit the commercial plan to either the first contracting officer awarding a contract subject to the plan during the contractor's fiscal year, or, if the contractor has ongoing contracts with commercial plans, to the contracting officer responsible for the contract with the latest completion date. The contracting officer shall negotiate the commercial plan for the Government. The approved commercial plan shall remain in effect during the contractor's fiscal year for all Government contracts in effect during that period; (2) Submit a new commercial plan, 30 working days before the end of the Contractor's fiscal year, to the contracting officer responsible for the uncompleted Government contract with the latest completion date. The contractor must provide to each contracting officer responsible for an ongoing contract subject to the plan, the identity of the contracting officer that will be negotiating the new plan; (3) When the new commercial plan is approved, provide a copy of the approved plan to each contracting officer responsible for an ongoing contract that is subject to the plan; and (4) Comply with the reporting requirements stated in paragraph (a)(10) of this section by submitting one SSR in eSRS, for all contracts covered by its commercial plan. This report will be acknowledged or rejected in eSRS by the contracting officer who approved the plan. The report shall be submitted within 30 days after the end of the Government's fiscal year.
- **INDIVIDUAL CONTRACT PLAN:** Covers the entire contract period, applies to a specific contract, and has goals that are based on the Contractor's planned subcontracting (and purchasing) in support of the specific contract, except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract. For contracts with option periods, the plan will include separate goals and estimated value (or sales) for the base period with separate goals and estimated value for each option period.



Per FAR 52.219-9(c) this type of plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business concerns, small disadvantaged business (including ANCs and Indian Tribes), and women-owned small business concerns, with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the Contractor ineligible for award of a contract. The Contractor shall submit the Individual Subcontract Report (ISR), and the Summary Subcontract Report (SSR) using the Electronic Subcontracting Reporting System (eSRS) (<http://www.esrs.gov>), following the instructions in the eSRS and in accordance with FAR clause 52.219-9.

- **MASTER PLAN:** Contains all the required elements of an individual contract plan, except goals, and may be incorporated into individual contract plans, provided the master plan has been approved. A master plan on a plant or division-wide basis that contains all the elements, except goals, may be incorporated by reference as a part of the subcontracting plan required of the Contractor by the clause 52.219-9; **provided** (1) The master plan has been approved; (2) The Contractor ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval, to the Contracting Officer; and (3) Goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan. A contract may have no more than one plan. When a modification meets the criteria in FAR 19.702 for a plan, or an option is exercised, the goals associated with the modification or option shall be added to those in the existing subcontracting plan. The failure of the Contractor or subcontractor to comply in good faith with the clause at FAR 52.219-8 or an approved plan required by FAR 52.219-9 shall be a material breach of the contract. The Contractor shall submit the Individual Subcontract Report (ISR), and the Summary Subcontract Report (SSR) using the Electronic Subcontracting Reporting System (eSRS) (<http://www.esrs.gov>), following the instructions in the eSRS and in accordance with FAR clause 52.219-9.

GSA SUBCONTRACTING GOALS (How to do the math tips)

IMPORTANT: Subcontracting goals are subject to change, based on recent achievement levels and as negotiated with the Small Business Administration (SBA). SBA is responsible for the Federal Government Goaling Program and their website at www.sba.gov includes details and background on the goaling process.

- Total estimated subcontracting dollars (or spend) planned to all types of business concerns must be provided, then separately state the dollars that will be subcontracted to each category. All percents for each category will be expressed as a percentage of the total subcontracting dollars to all concerns (both large and small)*.
- The Small business dollar amount must include all sub-group category amounts; i.e., HUBZone, SDB, WOSB, VOSB, SDVOSB (plus any "other small" businesses that do not fall within one of these specified subgroups). Again note that Alaskan Native Corporations (ANCs) and Indian tribes will be included in the SDB and total small amounts.



*Only the large plus all small should equal the total in both dollars and percents. Do not add together subgroups to reach the total Small figure, as the same dollars can be double and triple counted for each group as applicable to the company receiving the order.

	Sample Dollars	GSA Goal
(FY 2012-13)		
Total dollars to be subcontracted (to both Large and Small Businesses)	\$1,000,000	100%
To Large Businesses	\$700,000	*70%
To all Small Businesses (includes HUBZone Small, Small Disadvantaged, Women-Owned Small, Veteran-Owned Small, Service-Disabled Veteran-Owned Small, and Other Small Business Concerns)	\$300,000	*30%
To HUBZone Small Businesses	\$30,000	3%
To Small Disadvantaged Businesses	\$50,000	5%
To Women-Owned Small Businesses	\$50,000	5%
To Veteran-Owned Small Businesses (includes SDVOSB below in this total)	\$30,000	3%
To Service-Disabled Veteran-Owned Small Businesses	\$30,000	3%

*NOTE: The total \$300,000 to all Small businesses already includes each subgroup (HUBZone, SDB, ANCs, WOSB, VOSB, and SDVOSB), plus other small businesses that are only small and do not fall into a specified category.

IMPORTANT: PLEASE REMOVE THE COVER PAGES BEFORE SUBMITTING THE SUBCONTRACTING PLAN TO GSA. THEY ARE ONLY FOR YOUR INFORMATION AND CONVENIENCE.



Template: March 2013

[INSERT COMPANY NAME]

SMALL BUSINESS SUBCONTRACTING PLAN (MODEL)

I. IDENTIFICATION DATA:

Address:	
Date Prepared:	
Description of Supplies/Services:	
Solicitation Number: (Completed for Individual Plans; N/A for commercial plans)	
Contract Number: (Completed for Individual Plans during option period; N/A for commercial plans)	

If submitting an Individual Contract Plan, insert dates below for the contract duration, if known (or insert N/A if the contract does not include specified option period).

Individual Plan Period:

Base Period:	(Insert Date of Award thru ?? years)
Option Period 1:	(1 Year, 5 Years, etc.)
Option Period 2:	(1 Year, 5 Years, etc.)
Option Period 3:	(1 Year, 5 Years, etc.)
Option Period 4:	(1 Year, 5 Years, etc.)

Estimated Contract Value (Provide separate estimate for base contract period and each option):

Base Period:	(Insert Dollar Amount)
Option Period 1:	(Insert Dollar Amount)
Option Period 2:	(Insert Dollar Amount)
Option Period 3:	(Insert Dollar Amount)
Option Period 4:	(Insert dollar amount if applicable/Not used for MAS)

Place of Performance:	
DUNS Number:	(under the contract awarded or pending award)

If submitting a Commercial Plan, insert dates below:

Commercial Plan Period:	(Insert 12 Month Fiscal Year Dates for Contractor/Offeror)
Projected annual sales (Company-wide):	(Insert Dollar Amount)

II. TYPE OF PLAN – FAR 19.701 (For definitions, see Cover Page and FAR clause 52.219-9):
 Place an "X" in the appropriate field to indicate the correct plan type.

Commercial Plan	
-----------------	--



Individual Plan	
Master Plan (incorporated into Individual Plan)	

III. GOALS: A. The FAR clause at 52.219-9(d) states that the subcontracting plan shall include (1) goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business concerns as subcontractors; and (2) A statement of total dollars planned to be subcontracted for an individual contract plan; or the Contractor's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan. FAR 19.704(a)(1) requires separate percentage goals for using small business (including Alaskan Native Corporations (ANCs) and Indian tribes), veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business (including ANCs and Indian tribes) and women-owned small business concerns as subcontractors; and (3) A statement of the total dollars planned to be subcontracted and a statement of the total dollars planned to be subcontracted to small business (including ANCs and Indian tribes), veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business (including ANCs and Indian tribes) and women-owned small business concerns.

Commercial plans will always reflect annual company-wide goals. Individual plans will reflect contract-specific goals and shall contain separate statements and goals for the basic contract (period) and separately for each option (period). Note that dollars and percentages to large and total small businesses (all inclusive) must equal the total subcontracted to all categories in both dollars and percentages. EACH CONTRACTOR IS EXPECTED TO OFFER THE MAXIMUM PRACTICABLE OPPORTUNITIES TO EACH TYPE OF SMALL BUSINESS CONCERN CONSISTENT WITH THEIR BEST FAITH EFFORTS AND SUPPORTED BY THEIR REPORTS AND RECORDS.

COMPLETE FORMAT BELOW IF SUBMITTING AN INDIVIDUAL PLAN and note that a separate part is required for the base contract period and for each option period, if any. (IMPORTANT: Please remove this section and following page if submitting a commercial plan.)

[Company Name] provides the following separate dollar and percentage goals, which are a percentage of the total subcontracting dollars for each business category:

BASE GOALS are expressed in dollars and percentages of the total dollars planned to be subcontracted.

PLANNED SUBCONTRACTING TO:	DOLLARS	PERCENT
1. Total Dollars to be Subcontracted (2 + 3 = 1) large and all small businesses must equal total amount to be subcontracted (both \$ and %)		100%
2. Large Businesses (Other than Small)		
3. All Small Businesses (including ANCs & Indian tribes)		
4. Veteran-Owned Small Businesses (VOSB)		
5. Service-Disabled Veteran-Owned Small Businesses (SDVOSB)		
6. HUBZone Small Business (HUBZone)		
7. Small Disadvantaged Businesses (SDB) (including ANCs & Indian tribes)		
8. Women-Owned Small Businesses (WOSB)		

If applicable: 1ST OPTION GOALS are expressed in dollars and percentages of total dollars planned to be subcontracted.

PLANNED SUBCONTRACTING TO:	DOLLARS	PERCENT
----------------------------	---------	---------

1. Total Dollars to be Subcontracted (2 + 3 = 1) large and all small businesses must equal total amount to be subcontracted (both \$ and %)		100%
2. Large Businesses (Other than Small)		
3. All Small Businesses (including ANCs & Indian tribes)		
4. Veteran-Owned Small Businesses (VOSB)		
5. Service-Disabled Veteran-Owned Small Businesses (SDVOSB)		
6. HUBZone Small Business (HUBZone)		
7. Small Disadvantaged Businesses (SDB) (including ANCs & Indian tribes)		
8. Women-Owned Small Businesses (WOSB)		



If applicable: 2ND OPTION GOALS are expressed in dollars and percentages of total dollars planned to be subcontracted.

PLANNED SUBCONTRACTING TO:	DOLLARS	PERCENT
1. Total Dollars to be (2 + 3 = 1) large and all small businesses must equal total amount to be subcontracted (both \$ and %)		100%
2. Large Businesses (Other than Small)		
3. All Small Businesses (including ANCs & Indian tribes)		
4. Veteran-Owned Small Businesses (VOSB)		
5. Service-Disabled Veteran-Owned Small Businesses (SDVOSB)		
6. HUBZone Small Business (HUBZone)		
7. Small Disadvantaged Businesses (SDB) (including ANCs & Indian tribes)		
8. Women-Owned Small Businesses (WOSB)		

If applicable: 3ND OPTION GOALS are expressed in dollars and percentages of total dollars planned to be subcontracted.

PLANNED SUBCONTRACTING TO:	DOLLARS	PERCENT
1. Total Dollars to be Subcontracted (2 + 3 = 1) large and all small businesses must equal total amount to be subcontracted (both \$ and %)		<u>100%</u>
2. Large Businesses (Other than Small)		
3. All Small Businesses (including ANCs & Indian tribes)		
4. Veteran-Owned Small Businesses (VOSB)		
5. Service-Disabled Veteran-Owned Small Businesses (SDVOSB)		
6. HUBZone Small Business (HUBZone)		
7. Small Disadvantaged Businesses (SDB) (including ANCs & Indian tribes)		
8. Women-Owned Small Businesses (WOSB)		

If applicable: 4TH OPTION GOALS are expressed in dollars and percentages of total dollars planned to be subcontracted. (IMPORTANT: LEAVE BLANK FOR MAS)

PLANNED SUBCONTRACTING TO:	DOLLARS	PERCENT
1. Total Dollars to be Subcontracted (2 + 3 = 1) large and all small businesses must equal total amount to be subcontracted (both \$ and %)		<u>100%</u>
2. Large Businesses (Other than Small)		
3. All Small Businesses (including ANCs & Indian tribes)		
4. Veteran-Owned Small Businesses (VOSB)		
5. Service-Disabled Veteran-Owned Small Businesses (SDVOSB)		
6. HUBZone Small Business (HUBZone)		
7. Small Disadvantaged Businesses (SDB) (including ANCs & Indian tribes)		
8. Women-Owned Small Businesses (WOSB)		

COMPLETE FORMAT BELOW IF SUBMITTING A COMMERCIAL PLAN (IMPORTANT: Please remove this page/section if submitting an individual plan.)

1. Estimated TOTAL dollars planned to be subcontracted to all types of concerns (generally for both commercial and government business, in support of commercial items sold during company fiscal year):

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	= 100% subcontracted

2. Total dollars planned to be subcontracted to large business concerns (or classified as other than small):

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

3. Total dollars planned to be subcontracted to all small business concerns (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB small business concerns:

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

4. Total dollars planned to be subcontracted to veteran-owned small business concerns (including service-disabled veteran-owned small businesses):

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

5. Total dollars planned to be subcontracted to service-disabled veteran-owned small business concerns
 (subset of VOSB above and cannot be higher than #4 above):

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

6. Total dollars planned to be subcontracted to HUBZone small business concerns:

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

7. Total dollars planned to be subcontracted to small disadvantaged business concerns (including ANCs and Indian tribes):



Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total

8. Total dollars planned to be subcontracted to women-owned small business concerns:

Description	Dollar Amount	Percentage
Annual Commercial Purchases/Spend:	\$	% of Total



B. FAR 19.704(a)(3) and the clause at 52.219-9(d)(3) requires a description of the principal types of supplies and services to be subcontracted and an identification of types planned for subcontracting to SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns. Check all that apply below, ensuring that at least one item is indicated for each column. If assistance is needed to locate small business sources, contact your local Small Business Administration Commercial Market Representative via www.sba.gov/localresources, or access the Dynamic Small Business Search database at http://dsbs.sba.gov/dsbs/search/dsp_dsbs.cfm. You may also post solicitations for small business opportunities on SBA's SUB-Net at <https://eweb1.sba.gov/subnet/search/index.cfm>.

The principal types of supplies and/or services that [Company Name] anticipates to be subcontracted and the identification of the type of business concern planned are as follows:

Business Category or Size

Supplies/Services	Large	Small	VOSB	SDVOSB	HUBZone	SDB	WOSB

ATTACH ADDITIONAL SHEETS IF NECESSARY (OR REMOVE LINES IF NOT NEEDED)

C. FAR 19.704(a)(4) and the clause at 52.219-9(d)(4) require a description of the method used to develop the subcontracting goals. Explain or state the basis for establishing your proposed goals (i.e. based on historical data and experience, market research, etc.); and provide justification for any low goal(s).

[Company Name] used the following method to develop the subcontracting goals:

D. FAR 19.704(a)(5) and clause 52.219-9(d)(5) require a description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, the System for Award Management (SAM), veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in SAM as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining SB, VOSB, SDVOSB, HUBZone, SDB, and WOSB source list. Use of SAM as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.



[Company Name] identifies potential subcontractors using the following source lists and organizations:

E. FAR 19.704(a)(6) and clause 52.219-9(d)(6) require a statement as to whether or not the Contractor included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns. NOTE: indirect costs represent the expenses of doing business that are NOT easily identified with a specific project (i.e. contract or grant) but are generally recognized as ordinary and necessary for the general operation of the contractor's organization and the conduct of activities it performs. Types of indirect costs include overhead (e.g. facility/utility & supplies cost), general and administrative (G&A), and fringe benefits (e.g. services or benefits provided to employees such as health insurance, payroll taxes, pension contribution, etc).

Indirect costs [HAVE BEEN/HAVE NOT BEEN] included in the dollar and percentage subcontracting goals stated above.

If indirect costs HAVE been included, the method used to determine the proportionate share of indirect costs to be incurred with small business concerns was as follows:

IV. PROGRAM ADMINISTRATOR:

FAR 19.704(a)(7) and clause 52.219-9(d)(7) require the name of an individual employed by the Contractor who will administer the Contractor's subcontracting program, and a description of the duties of the individual. Please add the contact information for this person (telephone number, fax number and/or email address), in case of questions and provide an alternate point of contact if applicable.

Name:	
Title/Position:	
Address:	
City/State/Zip Code:	
Telephone number:	
Fax number:	
Email Address:	

Alternate POC with contact information:

Name:	
Title/Position:	
Address:	
City/State/Zip Code:	



Telephone number:	
Fax number:	
Email Address:	

Duties: In accordance with clause 52.219-9(d)(11)(e), in order to effectively implement this plan to the extent consistent with efficient contract performance, the contractor shall perform the following functions:

1. Assist SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential SB, VOSB, SDVOSB, HUBZone, SDB and WOSB subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.
2. Provide adequate and timely consideration of the potentialities of SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns in all "make-or-buy" decisions.
3. Counsel and discuss subcontracting opportunities with representatives of SB, VOSB, SDVOSB, HUBZone, SDB and WOSB firms.
4. Confirm that a subcontractor representing itself as a HUBZone small business concern is identified as a certified HUBZone small business concern by accessing the System For Award Management (SAM) database or by contacting SBA.
5. Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as SB, VOSB, SDVOSB, HUBZone, SDB and WOSB for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.
6. Develop and promote company/division policy statements that demonstrate the company's/division's support for awarding contracts and subcontracts to SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns.
7. Develop and maintain bidders' lists of SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns from all possible sources.
8. Ensure periodic rotation of potential subcontractors on bidders' lists.
9. Ensure that SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns are included on the bidders' list for every subcontract solicitation for products and services they are capable of providing.



10. Ensure that subcontract procurement “packages” are designed to permit the maximum possible participation of SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns
11. Review subcontract solicitations to remove statements, clauses, etc., which might tend to restrict or prohibit SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns.
12. Ensure that the subcontract bid proposal review board documents its reasons for not selecting any low bids submitted by SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns.
13. Oversee the establishment and maintenance of contract and subcontract award records.
14. Attend or arrange for the attendance of company counselors at Business Opportunity Workshops, Minority Business Enterprise Seminars, Trade Fairs, etc.
15. Directly or indirectly counsel SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns on subcontracting opportunities and how to prepare bids to the company.
16. Conduct or arrange training for purchasing personnel regarding the intent and impact of Section 8(d) of the Small Business Act on purchasing procedures.
17. Develop and maintain an incentive program for buyers that support the subcontracting program.
18. Monitor the company’s performance and make any adjustments necessary to achieve the subcontract plan goals.
19. Prepare and submit timely reports.
20. Coordinate the company’s activities during compliance reviews by Federal agencies.

IF YOUR PROGRAM ADMINISTRATOR WILL PERFORM ADDITIONAL SUBCONTRACTING DUTIES NOT SHOWN ABOVE, PLEASE IDENTIFY THEM HERE:

21. Additional Duties:

V. EQUITABLE OPPORTUNITY:

FAR 19.704(a)(8) and clause 52.219-9(d)(8) require a description of the efforts the Contractor will make to assure that SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns have an equitable opportunity to compete for subcontracts.

[Company Name] will make every effort to ensure that all small business concerns have an equitable opportunity to compete for subcontracts. These efforts may include one or more of the following activities: (please indicate which of the following apply or adapt list to fit your company’s efforts)

A. Outreach efforts to obtain sources:

Description	Place "X" in blank if applicable.
Contacting minority and small business trade associations	
Contacting business development organizations	
Requesting sources from the Dynamic Small Business Search, which integrated data from the SBA PRO-Net database	
Attending small and minority business trade fairs and procurement conferences	

B. Internal efforts to guide and encourage purchasing personnel:

Description	Place "X" in blank if applicable.
Presenting workshops, seminars and training programs	
Establishing, maintaining and using small, hubzone small, small disadvantaged, women-owned small, veteran-owned small, and service-disabled veteran-owned small business source lists, guides, and other data for soliciting subcontracts	
Monitoring activities to evaluate compliance with the subcontracting plan	

C. Other Additional efforts: [\(Please describe below.\)](#)

VI. ASSURANCES OF CLAUSE INCLUSION AND FLOW DOWN:

FAR 19.704(a)(9) and clause 52.219-9(d)(9) require assurances that the Contractor will include the clause at [52.219-8](#), Utilization of Small Business Concerns (see [19.708\(a\)](#)), in all subcontracts that offer further subcontracting opportunities, and that the Contractor will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$700,000 (\$1,500,000 for construction) to adopt a plan that complies with the requirements of this clause (see [19.708\(b\)](#)).

[\[Company Name\]](#) agrees to include the FAR Clause 52.219-8, "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and will require all subcontractors (except small business concerns) that receive subcontracts in excess of



\$700,000 (\$1,500,000 for construction) to adopt a plan that complies with the requirements of the clause at [52.219-9](#), Small Business Subcontracting Plan.

VII. REPORTING AND COOPERATION:

FAR 19.704(a)(10) and clause 52.219-9(d)(10) require assurances that the Contractor will do the following:

[Company Name] agrees to:

- (10)(i) Cooperate in any studies or surveys as may be required;
- (ii) Submit periodic reports so that the Government can determine the extent of compliance by the Contractor with the subcontracting plan;
- (iii) Submit the Individual Subcontract Report (ISR), and the Summary Subcontract Report (SSR) using the Electronic Subcontracting Reporting System (eSRS) (<http://www.esrs.gov>), following the instructions in the eSRS;
- (iv) Ensure that its subcontractors with subcontracting plans agree to submit the ISR and/or the SSR using the eSRS;
- (v) Provide its prime contract number and its DUNS number and the e-mail address of the Government or Contractor official responsible for acknowledging or rejecting the reports, to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their reports; and
- (vi) Require that each subcontractor with a subcontracting plan provide the prime contract number and its own DUNS number, and the e-mail address of the Government or Contractor official responsible for acknowledging or rejecting the reports, to its subcontractors with subcontracting plans.

Reports are to be submitted within 30 days after the close of each calendar period as indicated in the following chart:

Calendar Period	Report Due	Date Due	Submit Reports to eSRS with email address for:
10/01--03/31	ISR	04/30	(Administrative) Contracting Officer /SBTA
04/01--09/30	ISR	10/30	Administrative) Contracting Officer /SBTA
10/01--09/30	SSR	10/30	Administrative) Contracting Officer /SBTA

THE eSRS WEB-BASED REPORTING REQUIREMENT INSTRUCTIONS CAN BE FOUND IN THE ATTACHMENT TO SUBCONTRACTING PLAN TAKEN FROM FAR CLAUSE 52-219-9.

VIII. RECORDKEEPING:

FAR 19.704(a)(11) and clause 52.219-9(d)(11) require a [description](#) of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the

efforts to locate SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns and award subcontracts to them.

[Company Name] will maintain records concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of efforts to locate SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

1. Source lists (e.g., SAM), guides, and other data that identify SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns.
2. Organizations contacted in an attempt to locate sources that are SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns.
3. Records on each subcontract solicitation resulting in an award of more than \$150,000, indicating:
 - (A) Whether small business concerns were solicited and, if not, why not;
 - (B) Whether veteran-owned small business concerns were solicited and, if not, why not;
 - (C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;
 - (D) Whether HUBZone small business concerns were solicited and, if not, why not;
 - (E) Whether small disadvantaged business concerns were solicited and, if not, why not;
 - (F) Whether women-owned small business concerns were solicited and, if not, why not; and
 - (G) If applicable, the reason award was not made to a small business concern.
4. Records of any outreach efforts to contact
 - (A) Trade associations;
 - (B) Business development organizations;
 - (C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, and women-owned small business sources; and
 - (D) Veterans service organizations.
5. Records of internal guidance and encouragement provided to buyers through
 - (A) Workshops, seminars, training, etc.; and
 - (B) Monitoring performance to evaluate compliance with the program's requirements.



6. On a contract-by-contract basis, records to support award data submitted by the Contractor to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.
7. Other records to support your compliance with the subcontracting plan: [\(Please describe below.\)](#)

IX. STATUTORY REQUIREMENTS (Found at FAR 19.702)

- Any contractor receiving a contract for more than the simplified acquisition threshold must agree in the contract that SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns will have the maximum practicable opportunity to participate in contract performance consistent with its efficient performance.
- It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with SB (including ANCs and Indian tribes), VOSB, SDVOSB, HUBZone, SDB (including ANCs and Indian tribes), and WOSB concerns.
- See 19.702(a)(1) for requirements that are imposed in negotiated acquisitions, and (a)(2) for requirements that are imposed in sealed bidding acquisitions.
- As stated in [15 U.S.C. 637\(d\)\(8\)](#), any contractor or subcontractor failing to comply in good faith with the requirements of the subcontracting plan is in material breach of its contract. Further, [15 U.S.C. 637\(d\)\(4\)\(F\)](#) directs that a contractor's failure to make a good faith effort to comply with the requirements of the subcontracting plan shall result in the imposition of liquidated damages (see 19.702(c) and 19.705-7).

X. DESCRIPTION OF GOOD FAITH EFFORT (Also refer to 13 CFR 125.3(d), Determination of Good Faith Effort)

In order to demonstrate your compliance with a good faith effort to achieve the small business subcontracting goals, outline the steps below that your company plans to take.

[\[Company Name\]](#) will take the following steps to demonstrate compliance with a good faith effort in achieving small business subcontracting goals:

The above requirements will be negotiated with the contracting officer prior to approval. The contracting officer must ensure per FAR 19.705-5(a)(5) that an acceptable plan is incorporated into and made a material part of the contract.



SIGNATURE REQUIRED: Plan must be signed and dated by a company official.

This subcontracting plan was SUBMITTED by:

Signature:	
Typed Name:	
Company Title:	
Date Signed:	

Government Contracting Officer APPROVAL:

Signature:	
Printed Name:	
Agency:	
Date Signed:	

REPORTING INSTRUCTIONS FOR CONTRACTORS

Electronic Subcontracting Reporting System web-based reporting requirements found at FAR clause 52.219-9(l):

The Contractor shall submit ISRs and SSRs using the web-based eSRS at <http://www.esrs.gov>. Purchases from a corporation, company, or subdivision that is an affiliate of the prime Contractor or subcontractor are not included in these reports. Subcontract award data reported by prime Contractors and subcontractors shall be limited to awards made to their immediate next-tier subcontractors. Credit cannot be taken for awards made to lower tier subcontractors, unless the Contractor or subcontractor has been designated to receive a small business or small disadvantaged business credit from an ANC or Indian tribe.

(1) ISR. This report is not required for commercial plans. The report is required for each contract containing an individual subcontract plan and shall be submitted to the Administrative Contracting Officer (ACO) or Contracting Officer, if no ACO is assigned.

(i) The report shall be submitted semi-annually during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract or the previous reporting period.

(ii) When a subcontracting plan contains separate goals for the basic contract and each option, as prescribed by FAR [19.704\(c\)](#), the dollar goal inserted on this report shall be the sum of the base period through the current option; for example, for a report submitted after the second option is exercised, the dollar goal would be the sum of the goals for the basic contract, the first option, and the second option.

(iii) The authority to acknowledge receipt or reject the ISR resides—

- (A) In the case of the prime Contractor, with the Contracting Officer; and
- (B) In the case of a subcontract with a subcontracting plan, with the entity that awarded the subcontract.

(2) SSR.

(i) Reports submitted under individual contract plans—

(A) This report encompasses all subcontracting under prime contracts and subcontracts with the awarding agency, regardless of the dollar value of the subcontracts.

(B) The report may be submitted on a corporate, company or subdivision (e.g. plant or division operating as a separate profit center) basis, unless otherwise directed by the agency.

(C) If a prime Contractor and/or subcontractor is performing work for more than one executive agency, a separate report shall be submitted to each executive agency covering only that agency's contracts, provided at least one of that agency's contracts is over \$700,000 (over \$1,500,000 for construction of a public facility) and contains a subcontracting plan. For DoD, a consolidated report shall be submitted for all contracts awarded by military departments/agencies and/or subcontracts awarded by DoD prime Contractors. However, for construction and related maintenance and repair, a separate report shall be submitted for each DoD component.

(D) For DoD and NASA, the report shall be submitted semi-annually for the six months ending March 31 and the twelve months ending September 30. For civilian agencies, except NASA, it shall be submitted annually for the twelve month period ending September 30. Reports are due 30 days after the close of each reporting period.

(E) Subcontract awards that are related to work for more than one executive agency shall be appropriately allocated.

(F) The authority to acknowledge or reject SSRs in eSRS, including SSRs submitted by subcontractors with subcontracting plans, resides with the Government agency awarding the prime contracts.

(ii) Reports submitted under a commercial plan—

(A) The report shall include all subcontract awards under the commercial plan in effect during the Government's fiscal year.

(B) The report shall be submitted annually, within thirty days after the end of the Government's fiscal year.

(C) If a Contractor has a commercial plan and is performing work for more than one executive agency, the Contractor shall specify the percentage of dollars attributable to each agency from which contracts for commercial items were received.

(D) The authority to acknowledge or reject SSRs for commercial plans resides with the Contracting Officer who approved the commercial plan.

(iii) All reports submitted at the close of each fiscal year (both individual and commercial plans) shall include a Year-End Supplementary Report for Small Disadvantaged Businesses. The report shall include subcontract awards, in whole dollars, to small disadvantaged business concerns by North American Industry Classification System (NAICS) Industry Subsector. If the data are not available when the year-end SSR is submitted, the prime Contractor and/or subcontractor shall submit the Year-End Supplementary Report for Small Disadvantaged Businesses within 90 days of submitting the year-end SSR. For a commercial plan, the Contractor may obtain from each of its subcontractors a predominant NAICS Industry Subsector and report all awards to that subcontractor under its predominant NAICS Industry Subsector.

Contracting Officer	(insert e-mail addresses)
Small Business Technical Advisor (SBTA)	(email address for specific office/service/agency)
Subcontracting Manager, Office of Small Business Utilization	(janice.keys@gsa.gov or applicable alternate agency)
Small Business Administration Representative	(found at www.sba.gov and enter business zip code to find local resources/POC for contractor's location)

(END OF ATTACHMENT J-4)



ATTACHMENT J-5 CS3 Monthly Business Volume (Sales) Report

CS3 Monthly Business Volume (Sales) Report

1. SALES DATA WORKSHEET

Vendor Name – Your Company Name

Contract Number – Your CS3 Contract Number

Agency Name – Name of the Agency that will receive the products and/or services. Please search for the Agency Name from the "Agency Name-Code List" Worksheet. Once the Agency Name is located, please copy and paste the Agency Name from the "Title" Column, into the "Agency Name" field of the "Enter Sales Data" Worksheet. If unable to locate the specific Agency, please type the Agency Name.

Ordering Activity – Name of the Ordering Activity that issued the task order.

City – City of the Ordering Activity.

State – State of the Ordering Activity in abbreviated format (e.g., AK, VA, MD).

Zip Code – Zip Code of the Ordering Activity.

Contracting Officer Name – First and Last Name of the Contracting Officer that issued the order.

Contracting Officer Phone Number – Phone Number of the Contracting Officer that issued the order. Format: (xxx) xxx-xxx

Contracting Officer E-mail – E-mail address of the Contracting Officer that issued the order.

Date of Order – The date the order or modification is signed by the Contracting Officer. This is typically located as Item 31c on Standard Form 1449 – Solicitation/Contract/Order for Commercial Items or Block 16C on Standard Form 30 - Amendment of Solicitation/Modification

Order Number – The order number "assigned" by the Ordering Agency that issued the order.

Modification Number – The contract modification number "assigned" by the Ordering Agency, if applicable.

Requisition Number – Identify the requisition number for DISA/DITCO orders only. This is typically located as Item 1 on Standard Form 1449 – Solicitation/Contract/Order for Commercial Items or Block 4 on Standard Form 30 - Amendment of Solicitation/Modification of

Description of Services – A brief description of the equipment and/or services acquired. Please include applicable narrative such as MSS, FSS, leased service, modification, in support of, etc., to provide further clarification.

Period of Performance Start Date – The actual date the service is scheduled to begin. This is typically identified within the task order. Do not report option periods unless they are exercised by the Ordering Activity. Format: M/DD/YYYY

Period of Performance End Date – The actual date the services are scheduled to end. This is typically identified within the task order/delivery order. Do not report option periods unless they are exercised by the Ordering Activity. Format: M/DD/YYYY

Total Order Value – Total dollar amount awarded/obligated on the task order, not including options.

2. LINE ITEM DATA WORKSHEET

Date of Order – The date the order or modification is signed by the Contracting Officer. This is typically located as Item 31c on Standard Form 1449 – Solicitation/Contract/Order for Commercial Items or Block 16C on Standard Form 30 - Amendment of Solicitation/Modification

Order Number – The order number “assigned” by the Ordering Agency that issued the order.

Modification Number - The modification number "assigned" by the Ordering Activity (e.g., P00001).

Line Item Description – Provide product or service description for each line item purchased. Please include Contract Line Item Number description shown on award document.

Quantity Sold – Self-explanatory.

Unit – Identify unit measure (e.g., each, lot, minute, day, month, quarter, annual, etc.)

Unit Price – Cost per unit.

Extended Price – Unit Price multiplied by Quantity Sold.

Frequency Band – The portion of the electromagnetic spectrum within a specified upper- and lower-frequency limit (e.g., C-, Ka-, K-, Ku-, X-

Bandwidth Capacity – The information carrying ability of the bandwidth purchased by the Ordering Activity/Agency measured in MHz (e.g.

Data Rate – The rate at which a channel carries data, measured in Kbps (e.g., 256). Sometimes described in terms of Committed Information Rate (CIR) and Burst Information Rate (BIR).

Regional Coverage – The geographic area serviced by satellite beam.

Satellite Name or Number – The satellite name/number providing the service.

Information System Category – The Information System Category defines the information systems as high-impact, moderate-impact, or low-impact for the security objectives of confidentiality, integrity, and availability.

Private or Shared Network – A private network is built and owned by an end user organization. A shared network is built and owned by multiple end user organizations.

HNA Required (Y/N) – The task order requires the contractor to establish relationships and/or negotiate agreements with host nations to obtain spectrum licenses to transmit voice, data, or video services in their international location.

Portability Service (Y/N) – The task order requires redeployment of satellite services. Portability may include moving from one transponder/satellite to another, one managed service area to another, transponder 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.

Expedited Service (Y/N) – The task order requires satellite services 7 calendar days or less after the contractor receives order.

Commercial Teleport (Y/N) – A commercially available satellite ground station with multiple parabolic antennas that functions as a hub connecting a satellite network with a terrestrial telecommunications network.

SEARCH FOR AGENCY CODE OR TITLE -- COPY AND PASTE TO AGENCY NAME COLUMN IN "ENTER SALES DATA"

AgencyCode	Title
0	Congress
0	Congressional Committees and Subcommittees
0	House of Representatives
0	Temporary Comm on Financial Oversight of Dist of Col.
0	Senate
0	Presidential Transition
0	Tribal Organizations
0	Inaugural Committee
0	Food and Agriculture Organization of the United Nations
0	Inter-American Defense Board
0	Inter-American Development Bank
0	Intergovernmental Committee for European Migration
0	International Atomic Energy Agency
0	International Bank for Reconstruction and Development
0	International Civil Aviation Organization
0	International Finance Corporation
0	International Monetary Fund
0	International Telecommunications Union
0	National Academy of Sciences
0	Organization of American States (Pan American Union)
0	Pan American Health Organization
0	Statue of Liberty/Ellis Island Foundation
0	South Pacific Commission
0	United Nations
0	United Nations Educational Scientific, and Cultural Organization
0	Universal Postal Union
0	World Health Organization
0	World Meteorological Organization
0	American Freedom from Hunger Society
0	Army and Air Force Exchange Service
0	Interagency Committee on Marine Research, Education, and Facilities
0	North Atlantic Treaty Organization
0	Army and Air Force Motion Picture Service
0	National Trust for Historical Preservation
0	Federal Reserve System
0	American National Red Cross
0	Caribbean Organization
0	Miscellaneous Government Non-Appropriated Fund Activities
0	United Nations-International Labor Office
0	National Alliance of Businessmen
0	National Building Museum
0	National Consumer Cooperative Bank
0	United Nations Information Service
0	Miscellaneous Non-Government Accounts
0	Organization for Economic Cooperation and Development

0	Navy Resale and Services (Non-Appropriated)
0	Washington Metropolitan Area Transit Commission
0	United Nations World Food Program
0	GSA Advantage IMPAC
1	Architect of the Capitol
1	Capitol Buildings
1	Capitol Grounds
1	Capitol Power Plant
1	House Office Buildings
1	Library of Congress Building
1	Senate Office Buildings
1	Supreme Court
1	GSA Advantage IMPAC
2	U. S. Capitol Police Office of Financial Management
3	Library of Congress
3	GSA Advantage IMPAC
4	Government Printing Office
4	census monitoring board,
4	census monitoring board,
4	GSA Advantage IMPAC
5	General Accountability Office
5	GSA Advantage IMPAC
9	Legislative, All Other
9	United States Botanic Garden
9	Office of Technology Assessment
9	National Commission on Children
9	Biomedical Ethics Board
9	Copyright Royalty Tribunal
9	Office of Compliance
9	Helping Enhance the Livelihood of People Around the Globe
9	Medicaid & CHIP Payment & Access Commission
9	Prevent Weapons Mass Destruction Proliferation & Terrorism
9	National Commission on Terrorist Attacks Upon the United States
9	Financial Crisis Inquiry Commission
9	GSA Advantage IMPAC
10	Judiciary
10	Administrative Office of U.S. Courts
10	Public Defender Service
10	Courts of the District of Columbia
10	Bicentennial Commission of the Judicial Conference of the U.S.
10	District Courts of the United States
10	United States Bankruptcy Court
10	United States Sentencing Commission
10	Territorial Courts
10	United States Courts of Appeals
10	United States Claims Court
10	Bankruptcy Judge Courtrooms

10	United States Court of International Trade
10	Bankruptcy Clerk
10	United States Court of Appeals for the Federal Circuit
10	United States Supreme Court
10	Federal Judicial Center
10	Judicial Panel on Multi-District Legislation
10	Community Defenders
10	Court of Appeals Judges Chambers
10	Court of Appeals Courtrooms
10	Court of Appeals Clerk
10	Circuit Executive
10	Court of Appeals Central Legal Staff
10	Circuit Libraries
10	District Judge Chambers
10	District Judge Courtrooms
10	Magistrate Judge Chambers
10	Magistrate Judge Courtrooms
10	District Clerk
10	Probation
10	Pretrial Services
10	State Courts
10	Courts, Joint Use Federal and State
10	GSA Advantage IMPAC
11	Executive Office of the President
11	Office of Management and Budget
11	Council on Environmental Quality
11	CIA Office of Finance
11	President's Commission on Medical Ethics
11	Commission on CIA Activities Within U.S.
11	Inter-American Foundation
11	Council of Economic Advisers
11	U.S. Japan Economic Relations Group
11	Commission on World Hunger
11	Native Hawaiian Commission
11	National Security Council
11	Commission on Executive, Legislative and Judicial Salaries
11	Peace Corps
11	Property Review Board
11	Office of Policy Development
11	Office of the Vice President
11	The White House Office
11	African Development Foundation
11	Executive Office of the President - Reform 88
11	Task Force on Combatting Terrorism
11	Office of the United States Trade Representative
11	Points of Light Foundation
11	Office of Consumer Affairs

11	White House Conference for a Drug Free America
11	Office of Administration
11	Commission on Pension Policy
11	National Advisory Council on Economic Opportunity
11	National Space Council
11	Office of National AIDS Policy
11	White House Millennium Group
11	White House Athletic Center
11	White House Climate Control Task Force
11	Office of Science and Technology Policy
11	Council on Wage & Price Stability
11	Office of National Drug Control Policy
11	U.S. Trade and Development Agency
11	Commission on U.S. Intelligence Capabilities Regulating Weapons of Mass Destructions
11	GSA Advantage IMPAC
12	Department of Agriculture
12	Farm Service Agency
12	National Agricultural Statistics Service
12	Agricultural Marketing Service
12	Agricultural Research Service
12	Office of Small and Disadvantaged Business Utilization
12	Rural Development Administration
12	Office of the Chief Information Officer
12	Cooperative State Research, Education, and Extension Service
12	Office of Administrative Systems (Exp. Code)
12	Office of the Chief Information Officer - Washington Telecommunications Services and Operations
12	Rural Housing Service
12	Risk Management Agency
12	Foreign Agricultural Service
12	Office of Chief Information Officer - National Information Technology Center
12	Forest Service
12	Office of the General Counsel
12	Federal Grain Inspection, Packers, and Stockyards Administration
12	Office of Communications
12	Food and Consumer Services
12	Rural Utilities Services
12	Office of the Chief Information Officer National Telecommunications Services and Operations
12	Office of the Secretary
12	Animal and Plant Health Inspection Service (DHS Code 7053)
12	Natural Resources Conservation Service
12	grain insp packrs/stkyd
12	Food Safety and Inspection Service
12	office of the cio nitc -
12	office of administrative

12	Civil Rights Enforcement and Adjudication
12	Office of Budget and Program Analysis
12	human resources managememe
12	office of operations
12	External Services
12	Office of the Chief Financial Officer
12	Economic Research Service
12	AMS Contractors
12	Organization of Professional Employees
12	USDA Graduate School
12	International Cotton Advisory Commission
12	Office of the Inspector General
12	National Appeals Division
12	Office of Chief Economist
12	board of contract appeal
12	USDA Vacant Space
12	office of procurement an
12	Office of Civil Rights
12	USDA, National Capital Region
12	Departmental Administration
12	State Conservation Service
12	State Forestry Commission
12	State Extension Service
12	Farm Service Agency - County
12	Milk Marketing Association
12	GSA Advantage IMPAC
13	Department of Commerce
13	Office of the Secretary
13	Minority Business Development Agency
13	Commerce, Office of Computer Services
13	Bureau of the Census
13	National Telecommunications Information Administration
13	Nat'l Inst. Standards & Technology, Gaithersburg, MD
13	U.S. Travel and Tourism Administration
13	National Technical Information Services
13	Nat'l Inst. Standards & Technology, Boulder, CO
13	Patent and Trademark Office
13	International Trade Administration
13	Office of Inspector General
13	National Oceanic Atmospheric Administration
13	Economic Affairs
13	Bureau of Industry and Security
13	Technology Administration
13	Post Regional Task Force (Exp. Code)
13	Bureau of Economic Analysis (Exp. Code)
13	Economic Development Administration
13	Office of the Secretary (Exp. Code - Use Code 1301)

13	United States Travel Service (Exp. Code)
13	Economic Development Administration (Exp. Code - Use Code 1320)
13	Office of Minority Business Enterprise (Exp. Code - Use Code 1302)
13	Upper Great Lakes Regional Commission (Exp. Code)
13	New England Regional Commission (Exp. Code)
13	Pacific-Northwest Regional Commission (Exp. Code)
13	OP/ADP Management (Exp. Code)
13	Four Corner Regional Commission (Exp. Code)
13	Coastal Plains Regional Commission (Exp. Code)
13	Ozark Regional Commission (Exp. Code)
13	Old West Regional Commission (Exp. Code)
13	Southwest Border Region Commission (Exp. Code)
13	Government Contractors (Exp. Code - Use Code 1399)
13	GSA Advantage IMPAC
14	Department of the Interior
14	Office of Surface Mining and Regulation Enforcement
14	Geological Survey
14	Office of Hearing and Appeals
14	Bureau of Indian Affairs
14	Bureau of Minerals Management Service
14	Bureau of Land Management
14	Office of the Special Trustee for American Indians
14	Bureau of Mines
14	National Park Service
14	Department of Interior, Appraisal Services, Billings, MT
14	Office of Aircraft Services
14	Bureau of Reclamation
14	National Business Center
14	Office of the Secretary
14	Office of Water Resources Research (Exp. Code - Use Code 1411)
14	Office of the Solicitor
14	Department of Interior-Offc. Historical Trust Accounting
14	Department of Interior-Enterprise Serv Cntr
14	Office of InsularAffairs
14	Fish and Wildlife Service
14	Office of Inspector General
14	Construction Management
14	National Indian Gaming Commission
14	National Biological Survey
14	Department of Interior-Bureau of Indian Affairs Education
14	GSA Advantage IMPAC
15	Department of Justice
15	United States Trustees
15	Justice Management Division
15	Antitrust Division
15	Office of Professional Responsibility
15	Office of the Attorney General

15	Office of Associate Attorney General
15	Civil Division
15	INTERPOL - United States National Central Bureau
15	Civil Rights Division
15	Office of Legislative Affairs
15	Criminal Division
15	Office of the Deputy Attorney General
15	Federal Bureau of Investigation
15	Federal Prison Industries, Inc.
15	Immigration and Naturalization Service
15	National Institute of Corrections
15	Environment and Natural Resources Division
15	Office of Legal Counsel
15	Bureau of Prisons
15	Office of the Solicitor General
15	Tax Division
15	Office of Public Affairs
15	Telecommunications Services and Computer Services Staffs
15	Pardon Attorney
15	United States Marshals Service
15	Executive Office for Immigration Review
15	Office of Policy Development
15	Office of Justice Programs
15	Community Relations Service
15	Information Systems Staff
15	United States Parole Commission
15	Drug Enforcement Administration
15	Office of Intelligence Policy and Review
15	Office of the Special Prosecutor
15	Office of U.S. Attorneys
15	Foreign Claims Settlement Commission
15	Office of Special Counsel Related to Unfair Employment Practices
15	Office of Intergovernmental Affairs
15	Office of Inspector General
15	Civil Liberties Public Ed. Fund Board of Dir.
15	Consolidated Communications Network
15	National Drug Intelligence Center
15	Court Services & Offender Supervision Agency (CSOSA)
15	Office on Violence Against Women
15	National Prison Rape Elimination Commission (NPREC)
15	Government Contractors (Exp. Code - Use Code 1599)
15	Bureau of Alcohol, Tobacco, Firearms, and Explosives
15	GSA Advantage IMPAC
16	Department of Labor
16	Assistant Secretary for Administration and Management
16	Mine Safety and Health Administration
16	Office of Inspector General

16	Employee Benefits Security Administration
16	Pension Benefit Guaranty Corporation
16	Bureau of Labor Mgt Relation and Cooperative Programs
16	Office of Labor Management Standards
16	Bureau of International Labor Affairs
16	Office of the Chief Financial Officer
16	Labor-Management Services Administration (Exp. Code)
16	Office of Adjudicatory Services
16	Office of Public Affairs National Call Center
16	Occupational Safety and Health Administration
16	Bureau of Labor Statistics
16	Employment and Training Administration
16	Office of the Secretary of Labor
16	Employment Standards Administration
16	Office of the Solicitor
16	Veterans Employment and Training Service
16	Office of Public Affairs
16	Office of Congressional & Intergovernmental Affairs
16	Office of the Assistant Secretary for Policy
16	Women's Bureau
16	Benefits Review Board
16	Employees Compensation Appeals Board
16	Administrative Review Board
16	Office of Financial and Management Service
16	Administrative Law Judges
16	Office of Workmans' Compensation Programs
16	Wage and Hour Division
16	Office of Federal Contract Compliance Programs
16	Bureau of Apprenticeship and Training
16	Office of Job Corps
16	Mine Safety and Health Administration, Office of the Assistant Secretary
16	Mine Safety and Health Administration, Administration and Management
16	Mine Safety and Health Administration, Office of Assessments
16	Mine Safety and Health Administration, Coal Mine Safety and Health
16	Mine Safety and Health Administration, Metal and NonMetal Mine Safety and Health
16	Mine Safety and Health Administration, Educational Policy and Development
16	Mine Safety and Health Administration, Office of Standards, Regulations, and Variances
16	Mine Safety and Health Administration, Technical Support
16	Office of Small Business Programs
16	DOL Enterprise Services Office
16	DOL Working Capital Funds Components
16	DOL OASAM Consolidated Services
16	Anti-Poverty Programs (FSS use only)
16	Government Contractors (Exp. Code - Use Code 1699)
16	National Skills Standards Board
16	National Occupational Information Coordinating Committee

16	President's Committee on Employment of People with Disabilities
16	National Task Force on Employment of Adults with Disabilities
16	Department of Labor/Job Corps Program
16	Employment and Training Administration, Job Corps Centers
16	GSA Advantage IMPAC
17	Department of the Navy
17	Secretary of the Navy
17	Chief of Naval Research
17	Commander in Chief Pacific Fleet
17	Comptroller of the Navy
17	Commander in Chief Atlantic Fleet
17	Chief of Naval Operations
17	Naval Sea Systems Command
17	Chief of Naval Education and Training
17	Commander, Naval Air Atlantic Fleet
17	Chief of Naval Personnel
17	Commander, Naval Facilities Engineering Command
17	Bureau of Medicine and Surgery
17	Commander, Naval Air Pacific Fleet
17	Naval Materiel Command
17	Space and Naval Warfare Systems Command
17	Oceanographer of the Navy
17	Commander, Naval Supply Systems Command
17	Naval Telecommunications Command
17	Commander, Naval Air Systems Command
17	Naval Security Group Activity
17	Naval Recruiting Area One
17	Naval Intelligence Command Headquarters
17	Commanding General, 4th Marine Division
17	Commander, Naval Weather Service Command
17	Naval Reserve Recruiting Command Area Pacific
17	Commander Military Sealift Command, Wash HQ
17	Dept of Navy/Marine Corps Mobilization Command
17	Chief of Naval Reserve
17	Navy Resale Systems Office
17	Commandant of the Marine Corps
17	Naval Recruiting Area Three
17	Naval Recruiting Area Four
17	Chief of Naval Air Training
17	Naval Recruiting Area Five
17	Naval Recruiting Area Seven
17	Commander, Naval Recruiting Command
17	U.S. Marine Corps, Air Bases - Eastern Area
17	U.S. Marine Corps, Air Bases - Western Area
17	U.S. Marine Corps, Air Reserve Training Command
17	U.S. Marine Corps, 6th Marine Corps District
17	U.S. Marine Corps, 1st Marine Corps District

17	U.S. Marine Corps, 9th Marine Corps District
17	U.S. Marine Corps, 8th Marine Corps District
17	U.S. Marine Corps, 4th Marine Corps District
17	U.S. Marine Corps, 12th Marine Corps District
17	Chief of Naval Technical Training
17	Chief of Information
17	Naval Recruiting Area Eight
17	Government Contractors (Exp. Code - Use Code 1799)
17	U.S. Marine Corps, Quantico Dependent School System
17	Commander Naval Intallations
17	Commander Military Sealift Command, Pacific
17	Commander Military Sealift Command, Atlantic
17	Commander Military Sealift Command, Europe
17	Commander Military Sealift Command, Central
17	Commander Military Sealift Command, Far East
17	Dept of Navy/Technology Services Organization Kansas City
17	Dept of Navy/Marine Corps Enterprise Information Services
17	Naval Medical Information System Support Activity
17	U.S. Marine Corps, Chief Information Officer
17	GSA Advantage IMPAC
18	United States Postal Service
18	Chief Postal Inspector
18	Facilities
18	Office of the Inspector General
18	Finance and Administration
18	Operations
18	Personnel
18	Postal Supply Depots
18	Office of Postmaster General
18	Postmasters
18	Regional Comptroller
18	Bureau of Planning and Marketing
18	Transportation and International Service
18	District Managers
18	Commission on Postal Service
18	Postal Rate Commission
18	Government Contractors (Exp. Code - Use Code 1899)
18	GSA Advantage IMPAC
19	Department of State
19	Bureau of Administration
19	Office of the Under Secretary for Management
19	African Affairs
19	Politico - Military Affairs
19	Economic Affairs and Business Affairs
19	Cuban Haitian Task Force
19	European Affairs
19	Bureau of International Narcotics Matters

19	East Asian and Pacific Affairs
19	Multinational Force and Observers
19	Intelligence and Research
19	Bureau of Refugee Programs
19	Inter-American Affairs
19	International Boundary and Water Commission, U.S. and Mexico
19	International Boundary Commission, U.S. and Canada
19	International Joint Commission, U.S. and Canada
19	International Organization Affairs
19	Ocean and International Environmental Scientific Affairs
19	Near Eastern and South Asian Affairs
19	Human Rights and Humanitarian Affairs
19	Public Affairs
19	Office of the Secretary
19	Information Systems Office
19	Consular Affairs
19	Office of Foreign Missions
19	United States Mission to the United Nations
19	Office of Communications
19	Deputy Assistant Secretary for Budget and Finance
19	Office of Foreign Buildings
19	Foreign Service Institute
19	Inspector General
19	Legal Adviser
19	Office of Management
19	Deputy Assistant Secretary for Operations
19	Bureau of Personnel
19	Deputy Assistant Secretary for Security
19	No Bureau Identification
19	Diplomatic Telecommunications Service - Program Office
19	GSA Advantage IMPAC
20	Department of the Treasury
20	Financial Management Service
20	Office of the Comptroller of the Currency
20	U.S. Customs Service (DHS Code 7051)
20	Nat'l Law Enforcement Communications Center, Orlando (DHS Code 7052)
20	Assistant Secretary for International Affairs
20	Bureau of Engraving and Printing
20	Internal Revenue Service National Office
20	United States Mint - Denver
20	United States Mint - Washington, DC
20	United States Mint - San Francisco
20	Alcohol, Tobacco, Firearms, & Explosives
20	Bureau of Public Debt
20	Bureau of Public Debt
20	Office of the Secretary
20	Treasury Communications System

20	Financial Crimes Enforcement Network (FinCEN)
20	United States Savings Bond Division
20	United States Secret Service (DHS Code 2027)
20	Consolidated Federal Law Enforcement Training Center
20	Office of the Inspector General
20	Office of Thrift Supervision
20	Internal Revenue Service - Southeast Region
20	Internal Revenue Service - Western Region
20	Internal Revenue Service - Midstates Region
20	Internal Revenue Service - Northeast Region
20	Office of the Inspector General for Tax Administration (TIGTA)
20	Treasury Department Wireless Activities
20	Alcohol & Tobacco Tax & Trade Bureau
20	Community Development Financial Institutions Fund
20	DHS, Office of the Inspector General
20	GSA Advantage IMPAC
21	Department of the Army
21	Communications Command
21	U.S. Army, Washington, DC
21	U.S. Army Information Systems Command
21	Army Reserve
21	U.S. Army Intelligence Agency
21	Surgeon General
21	U.S. Army Recreation Machine Program
21	Corps of Engineers
21	Defense Telecommunication System - Washington (FTS Only)
21	Adjutant General
21	Army Intelligence and Security Command
21	Army Recruiting Command - SMB - Active
21	Criminal Investigation Command
21	Army Recruiting Command - SMB - Reserve
21	U. S. Army Medical Command
21	Army Recruiting Command - SMB - Advertising
21	Nat'l Guard Bur, AIS
21	Army Nat'l Guard, State Offices
21	The Judge Advocate General
21	Military Police Corps
21	US Army Accession Command
21	Civilian Appellate Review Agency
21	U. S. Army Installation Management Agency
21	Military Review Boards
21	Army Recruiting Command, Employee Parking Areas (PBS)
21	Army Distributed Learning System, Newport News, VA
21	Miscellaneous Department of the Army Activities
21	Community & Family Support Cntr NAF Contract Directorate
21	HQ, US Army Recruiting Command, Fort Knox, KY
21	Audit Agency

21	Military Traffic Management Command
21	Ballistic Missile Defense Communications Activity
21	Training and Doctrine Command
21	U.S. Army, Army Materiel Command
21	US Army Personnel Center
21	Army Forces Command
21	Army Recruiting Command
21	Military Enlistment Processing Command
21	Alaska Command
21	Army Communications Electronics Command
21	US Army Test & Evaluation Command
21	Army Project Manager, Logistics Information Systems
21	Department of Army, Army North
21	US Army Security Assistance Command
21	United States Property & Fiscal Office for Colorado
21	Amy, Project Manager/Global Combat Support System
21	Dept. of Army/National Guard
21	Community Based Health Care Organization CBHCO
21	State/Local DOD/DOJ Law Enforcement Support Program
21	GSA Advantage IMPAC
22	Resolution Trust Corporation
23	United States Tax Court
23	GSA Advantage IMPAC
24	Office of Personnel Management
24	Office of Budget and Management
24	Bureau of Inspections (Exp. Code)
24	Bureau of Management Services (Exp. Code)
24	Bureau of Manpower Information Systems (Exp. Code)
24	Bureau of Policies and Standards (Exp. Code)
24	Bureau of Personnel Investigations (Exp. Code)
24	Bureau of Recruiting and Examining (Exp. Code)
24	Bureau of Retirement, Insurance, & Occupational Health (Exp. Code)
24	President's Commission on White House Fellows
24	President's Committee on Personnel Interchange
24	GSA Advantage IMPAC
25	National Credit Union Administration
25	GSA Advantage IMPAC
26	Federal Retirement Thrift Investment Board
26	GSA Advantage IMPAC
27	Federal Communications Commission
27	GSA Advantage IMPAC
28	Social Security Administration
28	Social Security Administration
28	SSA Office of the Inspector General (FTS Only)
28	GSA Advantage IMPAC
29	Federal Trade Commission
29	Call Center for Consumer Protection

29	GSA Advantage IMPAC
31	Nuclear Regulatory Commission
31	GSA Advantage IMPAC
32	Synthetic Fuels Corporation
32	commerce,ofc of computer
32	GSA Advantage IMPAC
33	Smithsonian Institution
33	Archives of American Art
33	Smithsonian Astrophysical Observatory
33	Board of Trustees
33	Smithsonian Tropical Research Institute
33	Freer Gallery of Art
33	International Exchange Service
33	John F. Kennedy Center for the Performing Arts
33	National Museum of History and Technology
33	National Museum of Natural History
33	National Air and Space Museum
33	National Collection of Fine Arts
33	National Portrait Gallery
33	National Gallery of Art
33	Marine Science Center
33	National Zoological Park
33	Radiation Biology Laboratory
33	United States National Museum
33	Joseph H. Hirshhorn Museum and Sculpture Garden
33	Office of Public Affairs
33	Division on Performing Arts
33	Smithsonian Museum Shops
33	Office of Contracting
33	Woodrow Wilson International Center for Scholars
33	GSA Advantage IMPAC
34	International Trade Commission
34	GSA Advantage IMPAC
36	Department of Veterans Affairs
36	Inspector General
36	Procurement and Supply
36	Office of Facilities
36	Office of Information Systems and Telecommunications
36	Department of Medicine and Surgery
36	Department of Memorial Affairs
36	Veterans Benefits Administration
36	Office of Controller
36	Administrative Service
36	Training Academy
36	Eastern Area Service and Assistance Center
36	National EES Program
36	Department of Veteran's Affairs/National Cemetery Administration

36	GSA Advantage IMPAC
36	Subcontractors/Private Sector with Federal Agencies
41	Merit Systems Protection Board
41	Office of Administration
41	GSA Advantage IMPAC
45	Equal Employment Opportunity Commission
45	GSA Advantage IMPAC
46	Regional Commissions
46	Delaware River Basin Commission
46	Appalachian Regional Commission
46	Washington Metropolitan Area Transit Authority
46	Martin Luther King Jr. Federal Holiday Commission
46	GSA Advantage IMPAC
47	General Services Administration
47	Office of Administrator
47	Office of Acquisition Policy
47	Office of the Chief Financial Officer
47	Office of Inspector General
47	Office of Ethics and Civil Rights
47	Office of Governmentwide Policy
47	Federal Supply Service, OE
47	Office of Citizen Services and Communications
47	Federal Supply Service, All Other
47	Office of the Chief Financial Officer, Indian Tribal Claims {PBS space (Rent) only}
47	Office of General Counsel
47	Board of Contract Appeals
47	Public Buildings Service, All Other
47	Public Buildings Service - FBF
47	Community Services Administration Closeout
47	Pennsylvania Avenue Activities
47	Federal Property Resources Service
47	Federal Technology Service - Central Office Facilities {PBS space (Rent) only}
47	Presidential Transition
47	Special Projects (Presidential)
47	FTS, IT Solutions Facilities
47	FTS, Network Services Facilities
47	Central Office Combined Use Facilities {PBS space (Rent) only}
47	Allowance to Former Presidents
47	Office of Enterprise Development (E)
47	Transition - Outgoing President
47	Transition - Outgoing Vice President
47	Office of Management Services and Human Resources
47	Office of the Chief Information Officer
47	Regional Administrator's Office
47	Office of Citizen Services and Communications, Federal Citizen Information Center
47	Office of Administration Financial Management {PBS space (Rent) only}
47	GMA, Working Capital Fund {PBS space (Rent) only}

47	Regional Office of General Counsel (PBS Space Rental Only)
47	Regional Offices of Operations
47	Federal Acquisition Service (INACTIVE)
47	Federal Acquisition Service
47	Office of Performance Improvement (R)
47	Regional Public Buildings Service (PBS Space Rental Only)
47	Public Buildings Service, Delegated Buildings Only {PBS space (Rent) only}
47	FTS, IT Solutions, ISTS Facilities
47	FTS, IT Solutions, FAST Facilities
47	FTS, IT Solutions, Regional ADP Facilities
47	Federal Technology Service, Federal Information Center {PBS space (Rent) only}
47	GSA Regional General Management and Administration - Personnel
47	Federal Supply Service, Customer Supply Centers {PBS space (Rent) only}
47	Regional FPRS Warehousing Operations
47	Federal Supply Service, Laboratory {PBS space (Rent) only}
47	Federal Supply Service, Supply Distribution Warehousing Operations {PBS space (Rent) only}
47	Federal Supply Service, Personal Property Centers/State Agencies for Surplus Property
47	Federal Supply Service, Self-Service Stores {PBS space (Rent) only}
47	Federal Supply Service, Material Returns Program {PBS space (Rent) only}
47	Regional PBS, Maintenance and Custodial Operations
47	Public Buildings Service, District Offices {PBS space (Rent) only}
47	Public Buildings Service, Field Offices {PBS space (Rent) only}
47	National Commission on Fiscal Responsibility and Reform
47	FAS, Fleet Management Facilities
47	Federal Supply Service, Transportation {PBS space (Rent) only}
47	FAS, Telecommunication Facilities
47	Agency Liaison Division - RII only {PBS space (Rent) only}
47	Federal Supply Service, Utilization Offices {PBS space (Rent) only}
47	Regional Common Use Facilities {PBS space (Rent) only}
47	FTS, Information Security Management Facilities
47	FTS, Federal Systems Integration and Management Center (FEDSIM)
47	FTS IT Solutions Financial Srv Cntr, Phila, PA
47	FTS Network Services Financial Srv Cntr, Atlanta, GA
47	GSA FTS Professional Services Fund (Fund 295X)
47	Office of the Chief Acquisition Officer
47	Office of Acquisition Systems
47	Outleased {PBS space (Rent) only}
47	Joint Use Space {PBS space (Rent) only}
47	Vacant Unassigned Space {PBS space (Rent) only}
47	District of Columbia Financial Responsibility and Management Assistance Authority
47	District of Columbia Public Defender's Office
47	Women's Progress Commemoration Commission
47	GSA Advantage IMPAC
48	Miscellaneous Commissions
48	National Commission to Prevent Infant Mortality

48	Commission for the Study of International Migration and Cooperative Economic Development
48	International Cultural and Trade Center Commission
48	National Economic Commission
48	National Bankruptcy Review Commission
48	National Commission on Restructuring the IRS
48	National Commission on Restructuring the IRS
48	National Alcohol Fuels Commission
48	Commission on Railroad Retirement Reform
48	Commission on Agricultural Workers
48	Nuclear Waste Technical Review Board
48	Presidential Commission on Catastrophic Nuclear Accidents
48	Office of Nuclear Waste Negotiator
48	Interagency/Council for the Homeless
48	National Commission on Severely Distressed Public Housing
48	National Commission on American Indian, Alaska Native, and Native Hawaiian Housing
48	National Commission on Judicial Discipline and Removal
48	Joint Federal-State Commission on Policies and Programs Affecting Alaska Natives
48	United States Commission on Improving the Effectiveness of the United Nations
48	National Commission on Manufactured Housing
48	Thomas Jefferson Commemoration Commission
48	John F. Kennedy Assassination Records Review Board
48	Commission Rail Road Retirement
48	Medicare Payment Advisory Commission
48	National Commission on Student Financial Assistance
48	Commission on the Ukraine Famine
48	State Justice Institute
48	Commission on Education of the Deaf
48	Aviation Safety Commission
48	National Commission on Financial Institution Reform, Recovery and Enforcement
48	National Gambling Impact Study Commission
48	National Commission on Cost of Higher Education
48	National Commission on Advancement of Federal Law Enforcement
48	Medicare Payment Advisory Commission
48	President's Advisory Commission on Holocaust Assets in the United States
48	Commission on Ocean Policy
48	Commission on On-Line Child Protection
48	Commission on Affordable Housing and Health Care Facility Needs in the 21st Century
48	Dwight D. Eisenhower Memorial Commission
48	U.S. China Security Review Commission
48	Commission for International Religious Freedom
48	Trade Deficit Review Commission
48	GSA Advantage IMPAC
48	Millennial Housing Commission
49	National Science Foundation

49	National Radio Astronomy Observatory
49	National Center for Atmospheric Research
49	United States Arctic Research Commission
49	GSA Advantage IMPAC
50	Securities and Exchange Commission
50	GSA Advantage IMPAC
51	Federal Deposit Insurance Corporation
51	GSA Advantage IMPAC
52	Permitting and Enforcement Federal Inspector for the Alaska Gas Pipeline
52	GSA Advantage IMPAC
54	Federal Labor Relations Authority
54	GSA Advantage IMPAC
55	Advisory Commission on Inter-governmental Relations
55	GSA Advantage IMPAC
56	Central Intelligence Agency
56	GSA Advantage IMPAC
57	Department of the Air Force
57	Headquarters, Air Staff (Not for Fleet Lease)
57	Air Force District of Washington (Not for Fleet Lease)
57	Air Force Space Command (Not for Fleet Lease)
57	Accounting and Finance Center (Historical, Not for Fleet Lease)
57	Air Force Communications Command (Historical, Not for Fleet Lease)
57	Air Force Reserve Service (Not for Fleet Lease)
57	Electronic Security Command (Not for Fleet Lease)
57	Air Training Command, Recruiting Service (Historical, Not for Fleet Lease)
57	Air University (Historical, Not for Fleet Lease)
57	Air Force Logistics Command (Historical, Not for Fleet Lease)
57	Military Airlift Command (Historical, Not for Fleet Lease)
57	Strategic Air Command (Historical, Not for Fleet Lease)
57	Air Force Systems Command (Historical, Not for Fleet Lease)
57	Air Combat Command (Not for Fleet Lease)
57	Manpower Personnel Center (Not for Fleet Lease)
57	Appellate Review (Not for Fleet Lease)
57	Regional Civil Engineer (Not for Fleet Lease)
57	Air Force Publication Distribution Center (Not for Fleet Lease)
57	Office of Special Investigations (Not for Fleet Lease)
57	Alaskan Air Command (Historical, Not for Fleet Lease)
57	Pacific Air Forces (Not for Fleet Lease)
57	U.S. Air Force Academy (Not for Fleet Lease)
57	U.S. Air Force Europe (Not for Fleet Lease)
57	Standard Systems Center (Not for Fleet Lease)
57	Air National Guard (Not for Fleet Lease)
57	Air Force Reserve Officers Training Corps (ROTC) Program (Not for Fleet Lease)
57	Air Force Civil Air Patrol (Not for Fleet Lease)
57	Air Force, Recruiting Squadron, Recruit Suppt Section Finance
57	Air Combat Command (Incl. CENTCOM) (For Fleet Lease)
57	Air Mobility Comd., Incl. Def. Courier Srv., (Fleet Lse)

57	Air Educ. & Training Cmd., Excl. Recruit Srv. (Flt Lse)
57	AF Recruiting Service - AETC (For Fleet Lease)
57	Air Force Reserve Command (For Fleet Lease)
57	Air Force Material Command (For Fleet Lease)
57	Air National Guard Bureau (For Fleet Lease)
57	U.S. Air Force Academy, Dir. Reporting Unit (Flt Lse)
57	Air Force Space Command (For Fleet Lease)
57	Bolling AFB, Direct Reporting Unit (For Fleet Lease)
57	Air Force Off. Of Spec. Investigations (Fleet Lease)
57	Pacific Air Forces (For Fleet Lease)
57	U.S. Air Forces Europe (For Fleet Lease)
57	Joint Communications Support Element (For Fleet Lease)
57	Air Force Special Operations Command (For Fleet Lease)
57	GSA Advantage IMPAC
59	National Foundation on the Arts and the Humanities
59	National Endowment for Humanities (PBS and FTS Long Dist.)
59	National Endowment for the Arts
59	National Endowment for the Humanities (FTS Local Service)
59	Institute of Museum Services
59	national endowment for t
59	GSA Advantage IMPAC
60	Railroad Retirement Board
60	Washington Liaison Office
60	District Office
60	GSA Advantage IMPAC
61	Consumer Product Safety Commission
61	GSA Advantage IMPAC
62	U.S. Office of Special Counsel
62	GSA Advantage IMPAC
63	National Labor Relations Board
63	GSA Advantage IMPAC
64	Tennessee Valley Authority
64	GSA Advantage IMPAC
65	Federal Maritime Commission
65	GSA Advantage IMPAC
68	Environmental Protection Agency
68	Office of Water Programs
68	Office of Pesticides Programs
68	Office of Air Programs
68	Regional Offices
68	Solid Waste Programs
68	Radiation Programs
68	Office of the Administrator
68	GSA Advantage IMPAC
69	Department of Transportation
69	Office of the Secretary
69	Office of Inspector General

69	Federal Aviation Administration
69	Working Capital Fund
69	Federal Highway Administration
69	AMTRAK
69	Federal Railroad Administration
69	Maritime Administration
69	St. Lawrence Seaway Development Corporation
69	National Highway Traffic Safety Administration
69	Alaska Railroad
69	Surface Transportation Board
69	Federal Transit Administration
69	Research and Innovative Technology Administration
69	Federal Motor Carrier Safety Administration
69	Transportation Administrative Service Center
69	Transportation Systems Center
69	Pipeline Hazardous Materials and Safety Administration
69	State Highway Departments
69	GSA Advantage IMPAC
70	Department of Homeland Security
70	United States Secret Service
70	United States Coast Guard
70	Departmental Operations (Immediate Office of the Secretary)
70	Bureau of Citizenship and Immigration Services
70	Office of the Inspector General
70	DHS/Intelligence & Analysis
70	Office of the Under Secretary for Management
70	Federal Air Marshal Service
70	National Protection Program Directorate
70	Critical Infrastructure Assurance Office (Commerce - NOAA)
70	National Infrastructure Simulation and Analysis Center (DOE)
70	Energy Security and Assurance Program (DOE)
70	National Communications System (DFAS)
70	National Infrastructure Protection Center (FBI)
70	Federal Computer Incident Response Center (GSA)
70	Office of the Under Secretary for Science and Technology
70	Environmental Measurements Laboratory (DOE)
70	National Bio-Weapons Defense Analysis Center
70	DHS/Domestic Nuclear Detection Office
70	Federal Emergency Management Agency (FEMA) Headquarters
70	Disaster Finance Center, Berryville, VA
70	Working Capital Fund
70	National Emergency Training Center, Emmitsburg, MD
70	Federal Insurance Administration
70	National Disaster Medical System, Metropolitan Medical Response System
70	Strategic National Stockpile (HHS)
70	Fire Satellite System (FIRESAT - NOAA)
70	Office of the Under Secretary, Emergency Preparedness and Response

70	U.S. VISIT Program Office
70	DHS, Customs and Border Protection
70	DHS, National Law Enforcement Communications Center, Orlando, FL
70	Animal and Plant Health Inspection Service (APHIS)
70	Transportation Security Administration
70	Immigration and Customs Enforcement
70	Federal Protective Service (GSA)
70	Federal Law Enforcement Training Center, Glynco, GA
70	Office of Domestic Preparedness (DOJ)
70	DHS/Operations Coordination
70	FEMA/Disaster Emergency Stafford ACT
71	Overseas Private Investment Corporation
71	GSA Advantage IMPAC
72	Agency for International Development
72	Office of Inspector General
72	GSA Advantage IMPAC
73	Small Business Administration
73	GSA Advantage IMPAC
74	American Battle Monuments Commission
74	GSA Advantage IMPAC
75	Department of Health and Human Services
75	Office of the Secretary
75	Health Resources and Services Administration
75	Social Security Administration (Exp. Code)
75	Center for Medicare and Medicaid Services
75	Food and Drug Administration
75	Health Resources Administration (Expired Code)
75	National Institute of Health
75	Center for Disease Control
75	Indian Health Service
75	Program Support Center
75	Substance Abuse and Mental Health Services Admin.
75	President's Council on Bio-Ethics
75	White House Conference on Aging (Exp. Code)
75	Administration for Children and Families
75	Agency for Health and Research Quality
75	Administration on Aging
75	Departmental Management (IG)
75	State Agency for Surplus Property
75	American Printing House for the Blind
75	Gallaudet College
75	Howard University (Including Hospital)
75	Pediatric Vaccination Program (Exp. Code)
75	GSA Advantage IMPAC
76	Commemorative Commissions
76	Franklin Delano Roosevelt Memorial Commission
76	Christopher Columbus Quincentenary Jubilee Commission

76	Bicentennial Constitution Commission
76	James Madison Memorial Commission
76	Lewis and Clark Trial Commission
76	Dwight David Eisenhower Centennial Commission
76	US Territorial Expansion Memorial Commission
76	Woodrow Wilson Memorial Commission
76	Martin Luther King, Jr., Federal Holiday Commission
76	Christopher Columbus Fellowship Foundation
76	GSA Advantage IMPAC
78	Farm Credit Administration
78	Banks for Cooperatives
78	Federal Credit Banks
78	Federal Land Banks
78	Farm Credit Administration
78	GSA Advantage IMPAC
79	Foreign Claims Settlement Comm. Of the U.S. (Exp. Code)
80	National Aeronautics and Space Administration
80	Headquarters
80	Ames Research Center
80	Dryden Flight Research Center
80	Goddard Space Flight Center
80	Jet Propulsion Laboratory
80	Johnson Space Center
80	Kennedy Space Center
80	Langley Research Center
80	Lewis Research Center
80	Marshall Space Flight Center
80	Michoud Assembly Facility
80	John C. Stennis Space Center
80	Pasadena Office
80	Wallops Flight Center
80	Western Launch Operations
80	White Sands Test Facility
80	Gladstone Tracking Station
80	Canoga Park Industrial Plant {PBS space (Rent) only}
80	Downey Industrial Plant {PBS space (Rent) only}
80	Edwards Test Station {PBS space (Rent) only}
80	Plum Brook Station {PBS space (Rent) only}
80	Santa Susana Industrial Plant {PBS space (Rent) only}
80	Slidell Computer Complex {PBS space (Rent) only}
80	Slidell Computer Complex (Exp. Code)
80	NASA Mission Communications Services (FTS Only)
80	NASA Mission Support Communications Services (FTS Only)
80	NASA Reimbursable Communications Services (FTS Only)
80	NASA International Communications Services (FTS Only)
80	NASA Integrated Service Network (FTS Only)
80	NASA/CLIN Group 1 Switch Voice

80	NASA/CLIN Group 2 Out of Band Access
80	NASA/CLIN Group 3 Tail Circuits
80	NASA/Service Group 1 Mission Services
80	NASA/Service Group 2 Conferencing
80	NASA/Mission Support Core Backbone Circuits
80	NASA/Mission Support Regional Circuits
80	GSA Advantage IMPAC
82	Federal Home Loan Bank Board
83	Export-Import Bank of the United States
83	GSA Advantage IMPAC
84	Armed Forces Retirement Home
84	United States Soldiers' and Airmen's Home
84	United States Naval Home
84	GSA Advantage IMPAC
85 (INACTIVE)	Water Resources Council
85 (INACTIVE)	Great Lakes Basin Commission
85 (INACTIVE)	Pacific Northwest Basin Commission
85 (INACTIVE)	Ohio River Basin Commission
85 (INACTIVE)	New England Basin Commission
85 (INACTIVE)	Water Resources Council Headquarters
85 (INACTIVE)	Missouri River Basin Commission
85 (INACTIVE)	Upper Mississippi River Basin Commission
85 (INACTIVE)	GSA Advantage IMPAC
86	Department of Housing and Urban Development
86	Office of the Secretary
86	Office of General Counsel
86	Assistant Secretary for Metropolitan Planning and Development
86	Assistant Secretary for PD&R
86	Assistant Secretary for Housing Production and Mortgage Credit and Federal Housing Commissioner
86	Assistant Secretary for EO
86	Government National Mortgage Association
86	Office of Personnel-Union Conference Calls
86	Assistant Secretary for Housing Management
86	Field Offices
86	Assistant Secretary for Administration
86	National Commission on Neighborhoods
86	GSA Advantage IMPAC

88	National Archives and Records Administration {PBS space (Rent) and FTS2000 only}
88	Central Office and Presidential Libraries
88	National Archives and Records Administration - Regional {PBS space (Rent) and FTS2000 only}
88	National Archives and Records Administration - Records Depositing Operations (PBS rent and FTS2000)
88	GSA Advantage IMPAC
89	Department of Energy
89	Richland Operations Office {PBS space (Rent) only}
89	Federal Energy Regulatory Commission
89	Strategic Petroleum Reserve Project Management Office {PBS space (Rent) only}
89	Nevada Operations Office {PBS space (Rent) only}
89	NNSA Service Center
89	Oakland Operations
89	Schenectady Naval Reactors Office {PBS space (Rent) only}
89	Idaho Operations Office {PBS space (Rent) only}
89	Chicago Operations Office {PBS space (Rent) only}
89	Savannah River Operations Office {PBS space (Rent) only}
89	Pittsburgh Naval Reactors Office {PBS space (Rent) only}
89	Western Area Power Administration {PBS space (Rent) only}
89	Naval Petroleum and Oil Shale Reserves
89	Bonneville Power Administration
89	Southeastern Power Administration
89	Southwestern Power Administration
89	Alaska Power Administration
89	Oak Ridge Operations Office {PBS space (Rent) only}
89	Golden, CO Field Office
89	Enterprise Training Services MEO (ETS MEO)
89	Emergency Operations Training Academy (EOTA)
89	National Training Center (NTC)
89	Various (FSS Billing only)
89	Energy, National Security Administration, National Secure Manufacturing Center
89	Office of Energy Research
89	Rocky Flats Office
89	Department of Energy Chiquita Center
89	Various (FSS Billing only)
89	Various (FSS Billing only)
89	Various (FSS billing only)
89	Commission on U.S. Nuclear Weapons
89	GSA Advantage IMPAC
90	Selective Service System
90	GSA Advantage IMPAC
91	Department of Education
91	GSA Advantage IMPAC
93	Federal Mediation and Conciliation Service
93	GSA Advantage IMPAC
95	Independent U.S. Government Offices

95	Board of International Broadcasters
95	National Capital Planning Commission
95	Physician Payment Review Commission
95	Federal Mine Safety and Health Review Commission
95	Eisenhower Exchange Fellowship Program Trust Fund
95	Federal Election Commission
95	Commodity Futures Trading Commission
95	National Transportation Safety Board
95	Appraisal Subcommittee of the Federal Financial Institutions Examination Council
95	Harry S Truman Scholarship Foundation
95	Federal Housing Finance Board
95	Japan-United States Friendship Commission
95	Marine Mammal Commission
95	Occupational Safety and Health Review Commission
95	Administrative Conference of the United States
95	Advisory Committee on Federal Pay
95	Commission on Civil Rights
95	Comm. For Purchase From Blind & Other Severely Hndcpd.
95	Intelligence Community Oversight
95	Commission of Fine Arts
95	Panama Canal Commission
95	Architectural and Transportation Barriers Compliance Board
95	Prospective Payment Assessment Commission
95	National Mediation Board
95	President's Crime Prevention Council
95	White House Conference on Library and Information Services
95	United States Holocaust Memorial Council
95	National Commission on Libraries and Information Science
95	National Council on Disability
95	United States Institute of Peace
95	National Afro-American History and Culture Commission
95	Institute of American Indian Arts
95	Barry Goldwater Scholarship and Excellence in Education Foundation
95	National Commission on Migrant Education
95	Prescription Drug Payment Review Commission
95	National Commission on Acquired Immune Deficiency Syndrome
95	Commission for the Preservation of America's Heritage Abroad
95	Defense Nuclear Facilities Safety Board
95	United States Court of Appeals for Veterans Claims
95	Neighborhood Reinvestment Corporation
95	James Madison Memorial Fellowship Foundation
95	Office of Government Ethics
95	Federal Financial Institutions Examination Council
95	Competitiveness Policy Council
95	Corporation for National and Community Service
95	National Advisory Council on the Public Service Act of 1990
95	Commission on Immigration Reform

95	United States Enrichment
95	Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation
95	Chemical Safety Board
95	Director of National Intelligence
95	Presidio-San Francisco
95	Congressional Executive Commission on China
95	Election Assistance Commission
95	Court Services & Offender Supervision Agency (DC)
95	Public Defenders Service for the District of Columbia
95	Federal Coordinator Alaska Natural Gas Transportation Projects
95	Denali Commission
95	Broadcasting Board of Governors
95	Delta Regional Authority
95	Commission on the National Moment of Remembrance
95	Vietnam Education Foundation
95	Millenium Challenge Corporation
95	Council of Inspector General on Integrity & Efficiency
95	Northern Border Regional Commission
95	D.C. Superior Court
95	GSA Advantage IMPAC
96	Corps of Engineers, Civil
96	US Army Corps of Engineers - Head Quarters
96	US Army Corps of Engineers Automation Program
96	US Army Corps of Engineers Video Teleconference System
96	Humphreys Engineer Center Support Activity
96	US Army Corps of Engineers Programming Installation & Execution
96	US Army Topographic Engineering Center
96	US Army Engineering and Support Center
96	US Army Corps of Engineers Division, Mississippi Valley
96	US Army Corps of Engineers District, Memphis
96	US Army Corps of Engineers District, New Orleans
96	US Army Corps of Engineers District, St. Louis
96	US Army Corps of Engineers District, Vicksburg
96	US Army Corps of Engineers District, Rock Island
96	US Army Corps of Engineers District, St. Paul
96	US Army Corps of Engineers Division, North Atlantic
96	US Army Corps of Engineers District, Baltimore
96	US Army Corps of Engineers District, New York
96	US Army Corps of Engineers District, Norfolk
96	US Army Corps of Engineers District, Philadelphia
96	US Army Corps of Engineers District, New England
96	US Army Corps of Engineers Division, North Western
96	US Army Corps of Engineers District, Portland
96	US Army Corps of Engineers District, Seattle
96	US Army Corps of Engineers District, Walla Walla
96	US Army Corps of Engineers District, Kansas City

96	US Army Corps of Engineers District, Omaha
96	US Army Corps of Engineers Regional Office, Missouri River
96	US Army Corps of Engineers Division, Great Lakes and Ohio River
96	US Army Corps of Engineers District, Huntington
96	US Army Corps of Engineers District, Louisville
96	US Army Corps of Engineers District, Nashville
96	US Army Corps of Engineers District, Pittsburgh
96	US Army Corps of Engineers District, Buffalo
96	US Army Corps of Engineers District, Chicago
96	US Army Corps of Engineers District, Detroit
96	US Army Corps of Engineers Regional Office, Great Lakes
96	US Army Corps of Engineers District, Alaska
96	US Army Corps of Engineers Division, South Atlantic
96	US Army Corps of Engineers District, Charleston
96	US Army Corps of Engineers District, Jacksonville
96	US Army Corps of Engineers District, Mobile
96	US Army Corps of Engineers District, Savannah
96	US Army Corps of Engineers District, Wilmington
96	US Army Corps of Engineers Transatlantic Program Center
96	US Army Corps of Engineers Division, South Pacific
96	US Army Corps of Engineers District, Los Angeles
96	US Army Corps of Engineers District, Sacramento
96	US Army Corps of Engineers District, San Francisco
96	US Army Corps of Engineers District, Albuquerque
96	US Army Corps of Engineers Division, Southwestern
96	US Army Corps of Engineers District, Fort Worth
96	US Army Corps of Engineers District, Galveston
96	US Army Corps of Engineers District, Little Rock
96	US Army Corps of Engineers District, Tulsa
96	US Army Construction Engineering Research Laboratory
96	US Army Cold Regions Research and Engineering Laboratory
96	US Army Engineers Waterways Experiment Station
96	US Army COE, Pacific Ocean Division, Japan District
96	US Army Corps of Engineers, Far East District
96	US Army Corps of Engineers, Europe District
96	US Army Corps of Engineers, Honolulu District
96	GSA Advantage IMPAC
97	Office of the Secretary of Defense
97	Joint-Brazil-United States Defense Commission
97	Joint-Mexican-United States Defense Commission
97	National Security Agency
97	Permanent Joint Board on Defense United States and Canada
97	Office of the Secretary of Defense
97	Board of Contract Appeals
97	United States Court of Military Appeals
97	Inspector General
97	Department of Defense Education Activity

97	Defense Nuclear Agency
97	Defense Logistics Agency
97	National Geospatial- Intelligence Agency
97	Defense Intelligence Agency
97	Defense Investigative Service
97	Joint National Integration Center (Shriever AFB, CO)
97	Defense Information Systems Agency
97	Defense Contract Audit Agency
97	Defense Contract Management Agency - National
97	Defense Contract Management Agency - Local
97	Campaign Management Control Activity
97	Defense Research and Engineering Test and Evaluation
97	Defense Finance and Accounting Service
97	Joint Interagency Task Force West
97	Defense Commissary Agency - Information Technology Communications
97	Department of Defense - Consolidatd Switches
97	Ballistic Missile Defense Organization
97	Dept. of Defense Joint Technology Office (Albuquerque)
97	Tri-Service Infrastructure Management Program Office (TIMPO)
97	Armed Forces Information Service, Air Reserve, March AFB, CA
97	Defense Acquisition University (Ft. Belvoir, VA)
97	Defense Advanced Research Projects Agency
97	Department of Defense Dependent Schools - Europe
97	Department of Defense - TRICARE
97	US Joint Forces Command J9
97	US Joint Forces Command J7
97	US Joint Forces Command War Fighting CTR J7
97	Tricare Management Activities
97	Office of the Secretary of Defense, US Special Operations Command
97	U.S. Transportation Command
97	Dept of Defense Microelectronic Activity
97	GSA Advantage IMPAC
97	Department of Defense, Washington Headquarters Service
98	United States Railway Association
98	GSA Advantage IMPAC
99	District of Columbia
99	Dept of Consumer & Regltry Affairs
99	Department Of Public Works
99	Emergency Mgmt Administration
99	Chief Medical Examiner
99	Office of the Corporation Counsel
99	Department of Corrections
99	Public Schools
99	Executive Office Of The Mayor
99	Fire And Emergencies Med Svcs
99	Ofc Of Chief Technology Officer
99	Dept Of Insurance & Securities Reg

99	Office Of Chief Financial Officer
99	Minimum Wage and Industrial Safety Board
99	Department of Motor Vehicles
99	Department of Health
99	Office of Zoning
99	Metropolitan Police Department
99	Public Libraries
99	Department Of Human Services
99	DC Department of Recreation
99	DC Superior Court (use 95 95)
99	Board of Appeals and Review
99	National Guard of the District of Columbia
99	Armory Board
99	Planning And Economic Development
99	Board Of Elections & Ethics
99	Wash Metropltn Area Trans Auth
99	Public Service Commission
99	DC Govt, Child & Family Svcs Ag
99	Washington Convention Center Authority
99	Water And Sewer Authority
99	DC Pretrial Srvcs Agency
99	DC Court Of Appeals
99	DC Housing Authority
99	DC Retirement Board
99	DC Hlth Pub Benefit Corp
99	DC Department Of Mental Health
99	DC Govt, Univ of District of Columbia
99	GSA Advantage IMPAC
99	Subcontractors/Private Sector with Federal Agencies

SECTION J, Attachment J-5 (CS): Contract # :)
 CS3 Monthly Business Volume (Sales) Report
 Reporting Period: Month Day, 20XX to Month Day, 20XX

Vendor Name	Contract Number	Agency Name	Ordering Activity	City	State	Zip Code	Contracting Officer Name	Contracting Officer Phone Number	Contracting Officer Email	Date of Order	Order Number	Modification Number	Requisition Number	Description of Services	Period of Performance Start Date	Period of Performance End Date	Total Order Value
Total Sales This Month \$ -																	
Cumulative Sales To Date																	



ATTACHMENT J-6 CS3 Monthly Revenue Report

CS3 Monthly Revenue Report

Reporting Period - Identify the current Reporting Period (e.g., October 1, 20XX to October 31,

Vendor Name – Your Company Name

Contract Number – Your CS3 Contract Number

Task Order Number – The order number “assigned” by the Ordering Agency.

Date Received Payment - Date the payment is received by the vendor from the Agency.

Agency Name - Name of Agency

Total Order Value – Total dollar amount awarded/obligated on the task order, not including

Total GSA Management Fee Due (2%) - Equals 2% of Total Order Value. This amount is the total

Amount Received from Agency - Total dollar amount received in payment by the vendor, from the

GSA Management Fee Remitted (2%) - This fee is 2% of the total payment amount received from

Previous GSA Management Fees Remitted - Amount the vendor previously submitted to GSA in

Remaining Balance of Un-remitted GSA Management Fee - Equals "Total GSA Management Fee Due" minus "GSA Management Fee Remitted" for the current reporting period, minus the

SECTION J, Attachment J-6 (CS3: Contract #.)

CS3 Monthly Revenue Report

Reporting Period: Month Day, 20XX to Month Day, 20XX

Vendor Name	Contract Number	Task Order Number	Date Received Payment	Agency Name	Total Order Value	Total GSA Management Fee Due (2%)	Amount Received from Agency	GSA Management Fee Remitted (2%)	Previous GSA Management Fees Remitted	Remaining Balance of Un-remitted GSA Management Fee
TOTALS \$					- \$	- \$	- \$	- \$	- \$	- \$

EFT Number: _____ Date: _____ Amount: _____



ATTACHMENT J-8

SAMPLE TASK ORDER (STO) #1 – CONTINGENCY SATELLITE COMMUNICATIONS SYSTEM AND SERVICES

1.0 Introduction

The United States (US) Government Organization (USGO) has 10 quick reaction teams and requires a turnkey system with commercial satellite communications services as its primary means of communication for both training in garrison and operational deployment for each team. The USGO base of operations is in Germany. Training occurs at the USGO location in Germany. Operational deployment may be anywhere in Southwest Asia, or Northern Africa. Operational deployments occur with less than 48 hours' notice and require units to be passing data traffic within three hours of arrival at the deployed location. Deployments may be two weeks to two months in length. The normal operational tempo will require six (6) terminals to be deployed to multiple locations at one time operating simultaneously, however if a crisis occurs in the Area of Responsibility (AOR), all ten (10) terminals may be deployed and operating simultaneously. Due to changing mission requirements and flexibility required in the network, the Government is not able to provide a distribution of the terminals across the coverage area. The network should be designed to support all of the terminals operating simultaneously in any location in the required coverage area.

2.0 Objective

The objective is to obtain engineering design support, integration services, equipment, commercial satellite communications services, and training for a USGO that has both training and rapid-deployment operational requirements.

3.0 Summary of Requirements

The Contractor shall propose a solution compliant with all sample task order requirements that delivers the required quality of service and availability and articulates rationale for the choice of architecture and components, including life cycle cost considerations.

Services and equipment to be provided include:

- System design
- System documentation
- Integration
- Testing
- Engineering
- On-going maintenance and operational support services
- Training
- Customer care and help desk support
- Central satellite gateway site – Contractor defined location with connection to the internet
- Satellite connectivity to the training area and operational areas



- Deployed terminals

3.1 Management Requirements

3.1.1 The Contractor shall provide a detailed project schedule (e.g., Microsoft Project or equivalent) in PDF format for the entire Task Order lifecycle.

3.1.2 The Contractor shall discuss:

3.1.2.1 A program management approach, procedures, and performance metrics and provide an explanation of how they will be used to ensure timely system development, installation and operation.

3.1.2.2 The roles and responsibilities of the Contractor and Subcontractors that will contribute to the solution, how work will be partitioned among subcontractors (if applicable), and how subcontractors will be managed.

3.1.2.3 Identification and assessment of risks and a mitigation strategy that minimizes cost, schedule, and performance risk.

3.1.2.4 Process and procedures they will employ to develop and furnish the deliverables in Section 7.2.

3.1.2.5 Implementation and maintenance of 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.

3.2 Technical Requirements

3.2.1 Satellite Communications Terminals

3.2.1.1 The Contractor shall provide terminal suites that 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.) Power (110 VAC or 220 VAC) will be provided by the Government at the deployed locations.



- 3.2.1.2 Each terminal suite shall be packed into no more than three ruggedized, transportable, airline baggage-shippable cases. The Contractor shall include the cases and packing foam with each terminal suite. The maximum exterior dimensions (length+width+height) of the baggage shippable cases are 115 inches and the maximum allowed weight for each case is seventy (70) pounds. The Contractor shall ensure the size and weight of any one case does not exceed these maximum exterior dimensions and weight requirements.
- 3.2.1.3 All equipment delivered as part of the complex satellite solution shall be new equipment.
- 3.2.1.4 Terminal equipment shall be able to be unpacked, set up, and configured by one person within two hours. Terminals shall be auto-acquire with an automatic peak and pol function to allow full operation no more than 30 minutes after terminal set-up.
- 3.2.1.5 Satellite communications terminals shall be Ku-band.
- 3.2.1.6 The Contractor shall provide all original manufacturer equipment documentation with each terminal suite.
- 3.2.1.7 The Government will provide one ViaSat AltaSec KG-250 High Assurance Internet Protocol Encryptor (HAIPE) network encryption device per terminal suite for the Contractor to integrate with the terminal suite equipment. There is no need for the Contractor to integrate the device into the terminal equipment cases
- 3.2.1.8 The Contractor shall procure, configure, test, and deliver ten (10) remote terminal suites.
- 3.2.1.9 The Contractor shall develop a test plan and schedule for the procured terminals and provide it to the Government for review/approval no later than 30 days after award. All procured terminals shall undergo testing at the Contractor facility prior to shipment. The Government reserves the right to attend all tests. The Government will provide one KG-250 HAIPE device for testing purposes only. This device shall be returned to the Government and not shipped with the terminals. The input to the KG-250 is an Ethernet connection. The Contractor is only responsible for ensuring the Contractor provided equipment is interoperable with the KG-250. The Contractor shall provide completed test reports to the Government within ten (10) days of test completion. The Contractor shall not ship any equipment prior to Government review of test results.



3.2.1.10 The Contractor shall ensure that all components are interoperable and shall integrate all components into a single turnkey solution.

3.2.2 Equipment Service and Support

The Contractor presents an approach for lifecycle management (on-going maintenance and operational support services, customer care and help desk support to include electromagnetic interference (EMI)/radio frequency interference (RFI) resolution support, and training). The Contractor shall provide a maintenance service plan that describes how the Contractor will provide continued technical support for all equipment and minimize mean time between failure and mean time to repair including warranty service, spare parts, and field support. Field support is only required for Germany.

3.2.3 Managed Network Services

3.2.3.1 The Contractor shall provide baseline commercial satellite communications managed network services for 10 terminals operating simultaneously. The Contractor shall provide a private, dedicated managed network to support a committed information rate to each terminal of 768 kbps x 512 kbps. The network outroute(s) shall support a minimum committed information rate (CIR) of 768 kilobits per second (kbps) to each remote terminal. The network inroute(s) shall be sufficient to ensure a CIR of 512 kbps per terminal. The Contractor shall provide a link budget for the solution explaining how the capacity proposed meets the Government's CIR requirements. The Contractor shall describe how unused network resources can be re-allocated to terminals operating in the network to provide them with higher throughput.

Direction	Definition	CIR (kbps)
Inroute	Data transmitted by the VSAT to the Gateway	512
Outroute	Data received by the VSAT from the Gateway	768

3.2.3.2 The managed network services shall include space segment, teleport, and terrestrial components as necessary to ensure a complete end-to-end communications solution.



- 3.2.3.3 The Contractor's teleport services shall include access to the public Internet. Public Internet access shall be via a U.S.-based Internet Point of Presence (PoP). The Contractor shall provide a static IP address for each terminal in order for a secure tunnel to be established from the KG-250s the Government will provide for each terminal. The gateway/destination KG-250 will be at a Government facility with the Black (Cypher Text) side reachable from the public internet. For example, users should reach google.com and not google.de.
- 3.2.3.4 Space segment coverage shall include Germany for terminals in the training environment. Space segment coverage for support of operational deployments shall include the African continent north of 15 N latitude, Yemen, Oman, Saudi Arabia, United Arab Emirates, Bahrain, Qatar, Kuwait, Jordan, Lebanon, Syria, Iraq, Iran, Turkey, Afghanistan, and Pakistan. The Contractor shall provide maps with clearly depicted and labeled contour lines, demonstrating coverage across the required locations. Contour lines should clearly demonstrate satellite gain to noise temperature ratio (G/T), effective isotropic radiated power (EIRP), and elevation angle values for proposed satellite(s) and covered region(s).
- 3.2.3.5 The Contractor shall meet or exceed a 99.5% link availability for all required satellite links to and from each remote site.
- 3.2.3.6 The Contractor shall develop and provide a high-level network architecture diagram showing nodes and gateway locations. A detailed network architecture, configuration documentation, and transmission plans are required after task order award.
- 3.2.3.7 The Contractor shall have a means of satellite communications EMI and RFI identification, characterization, and geo-location. The Contractor will be required to analyze and report all EMI/RFI to the Government and may be asked to participate in exercises involving EMI/RFI.
- 3.2.3.8 The Contractor will be required to meet Federal and DoD Information Assurance requirements for a Moderate Impact Information System. 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), and teleport).

3.2.4 Frequency Clearances and Approvals



- 3.2.4.1 The Contractor shall describe the frequency clearance requirements and explain how the requirements will be met to allow transmission in Host Nations. The Contractor shall support Host Nation Agreement (HNA) efforts in obtaining international approvals for radio spectrum operations under this contract in foreign nations. The Contractor shall ensure that international services provided under this contract may be provided as scheduled with the full approval of each affected host nation. Typical services may include, but are not limited to: host nation approvals, landing rights, operating agreements, site licenses, and frequency clearances.
- 3.2.4.2 Frequency Clearances for all ten (10) terminals operating in Germany, Saudi Arabia, United Arab Emirates, Bahrain, Qatar, and Kuwait shall be required prior to the start of managed network services. Frequency clearances for all other countries within the coverage area will be requested when needed as mission dictates throughout the life of this sample task order and do not need to be priced with proposal submission.
- 3.2.4.3 If additional host nation support becomes necessary during the life of the Task Order, contract line item numbers will be added to the order at the time they are required and shall be invoiced at pass-through rates. The Contractor may be required to provide HNAs for any nation covered within the limits defined in the coverage area, as needed by the user.
- 3.2.4.4 Frequency Clearances shall be requested for the maximum time period allowed by the host nation, up to the life of the contract.
- 3.2.4.5 The Contractor shall provide the Government with copies of regulatory licenses and approvals obtained to operate and use the spectrum for countries within the required service region. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.5 Training Support



- 3.2.5.1 The Contractor shall develop a Training Plan and training materials to provide USGO personnel with classroom training for operation and maintenance of terminals and services. The training must include fundamentals of satellite communications, Very Small Aperture Terminal (VSAT) configuration, planning, network architecture, orbits, and hands-on equipment set-up, operation, and trouble-shooting. The Contractor shall provide the Training Plan to the Government for approval at least 30 days prior to training. Training is required once annually for up to 20 personnel. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.
- 3.2.5.2 The USGO will provide the classroom for training at the USGO facility in Stuttgart, Germany. The Contractor shall provide all training materials.
- 3.2.5.3 The Contractor shall plan for initial acceptance testing of all Contractor provided equipment to be conducted in conjunction with the initial training session in Germany.

3.2.6 Additional Requirements

- 3.2.6.1 The Contractor shall staff a 24/7/365 Network Operations Center (NOC) as a focal point for network access, technical support, and troubleshooting. NOC staff shall be English-speaking and U.S. citizens.
- 3.2.6.2 The Contractor shall be required to coordinate with external offices and agencies, USGO Operations Centers, and other communications planners, managers and operators.
- 3.2.6.3 The Contractor shall provide status reporting on equipment status, network status, and network utilization. The Contractor shall create and manage trouble tickets. The Contractor shall produce monthly and annual resource utilization reports. These will be post-award contract deliverables. See Section L.22.2 regarding submission of post-award contract deliverables.
- 3.2.6.4 The Contractor shall provide two (2) new laptop computers. Laptop computers shall be Dell Latitude 14 5000 Series (E5470), or equivalent, with the following minimum specifications for the laptops computers:
 - Windows 7 or 10 Professional
 - 14" Non-Touch HD LCD without Camera
 - Intel Core i5 -6200 Dual Core processor or equivalent



- 4 GB Memory
- 500 GB hard drive

Laptops will be re-imaged by the Government for use on an Unclassified network, so no additional software is required.

- 3.2.6.5 The Contractor will provide an unpriced Bill of Materials (BOM) in Microsoft Excel that will include services, equipment, and labor (see J-18).
- 3.2.6.6 The Contractor shall plan for a complete tech refresh of all Contractor provided satellite communications terminals and ancillary equipment (i.e. laptops, VoIP phones). The tech refresh shall be scheduled for the beginning of first option period (Year 6) as specified in Section 4.2. The Contractor should assume an annual rate of inflation of 2.5% of the proposed equipment price in Year 1.

4.0 Performance

4.1 Locations

Work is to be performed at Contractor facilities. Equipment shall be shipped to the USGO location in Germany. The Government will perform installation and checkout for the equipment prior to acceptance. The acceptance testing will be conducted in conjunction with the initial training session in Germany. Technical support may be required at the USGO location in Germany. Training is required annually at the USGO location in Germany.

4.2 Period of Performance

The period of performance for this Task Order will be five (5) years. In addition to the CLINs priced by the Contractor during the 5-year period of performance (Years 1 through 5), the Contractor shall propose pricing 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 option.

In the first six months after contract award, the Contractor shall acquire, integrate, test, and deliver the requested capability, and conduct training for the deployed teams.

5.0 Government Support

5.1 Government Furnished Equipment/Facilities:

The Government will provide one ViaSat AltaSec KG-250 HAIPE network encryption device per terminal to be connected to the equipment provided by the Contractor.



The Government will provide one ViaSat AltaSec KG-250 HAIPE network encryption device for testing by the Contractor.

The Government will provide a PoE-capable Ethernet switch (Cisco SF 110D-08HP or equivalent).

Power (110 VAC or 220 VAC) will be provided by the Government at the deployed locations.

The Government will provide a classroom for training at the USGO location in Germany.

6.0 Security

The Contractor shall articulate processes and procedures to address the security requirements for personnel assigned to the task order. All Contractor personnel assigned to this task shall be U.S. citizens and undergo background checks prior to their assignment. The required background investigations for administrative personnel shall be a minimum of a National Agency Check with Written Inquiries (NACI) and for technical staff shall be a Minimum Background Investigation (MBI) or higher depending upon their access and control over the systems.

All Contractor personnel with access to key operational security information (e.g., unit locations, troop movement information) and key personnel (e.g., Program Manager) shall possess United States SECRET security clearances. Contractor personnel performing system administration functions shall possess United States SECRET security clearances.

The Contractor shall ensure that all sensitive and classified information is safeguarded in accordance with the guidance provided in the CS3 DD254. Although the Contractor may be provided access to SECRET information in order to accomplish tasks, documents generated shall not include classified information unless directed by the Government and in accordance with classification guidelines and standards for documentation.

7.0 Deliverables

The following deliverables will be used to document the comprehensiveness of the Contractor's complex satellite solution for Contingency Satellite Communications Systems and Services.

7.1 Pre-Award Deliverables (Submitted with Contractor's proposal)

- Link Budget
- High-level Network Architecture diagram showing nodes and gateway locations



ATTACHMENT J-10

Sample Task Order (STO) #2 – ENVIRONMENTAL DATA NETWORK

1.0 Introduction

The Environmental Assessment Agency (EAA) recently signed Memorandum of Agreements (MOAs) with several South American countries for the purpose of collecting environmental and weather data from remote outposts to better support environmental trend analysis. The EAA requires a satellite-based communication network to backhaul data from remote sensor outposts that are installed in each country.

2.0 Objective

The Contractor shall design, deploy, and sustain a satellite-based network to support data collection from sensors in remote locations within South America. The EAA will provide security for all equipment installed at each of the remote sites (e.g., fencing and motion-activated surveillance cameras). Each of the sites has a 20 x 20 feet concrete pad enclosed by 6 foot high security fencing. The Contractor will select the best technology and band for this solution.

The suites of sensors and motion-activated surveillance cameras currently installed by the EAA at each remote site will share power with the satellite terminal. The Contractor will need to provide solar power (to include battery back-up) for all equipment installed by the Contractor at four of the six remote sites including the remote sensors power over Ethernet (PoE). The daily duty cycle for the terminal transmitting will be approximately 5 min per day to transmit captured environmental and weather data. Each sensor and terminal will be programmed to communicate at different times at each location. This will minimize total system bandwidth needed and also take advantage of saving battery power for solar operation.

The estimated data transferred per day will be approximately 5 Megabytes (MB) per site. This 5 MB figure would include occasional agency personal use, sensor data collected, and possible motion-activated surveillance camera activity. The network must also provide a capability to share the remote sensor bandwidth and motion-activated surveillance camera bandwidth with occasional personnel operational needs. The remote sites are typically unmanned, but there will be short periods where EAA will send staff to sites to perform additional data collection or local maintenance for the sensors. The estimated usage profile for these agency personnel is not expected to exceed 3 hours per day, 5 days per year for each site. No additional bandwidth is required for personnel usage.

3.0 Summary of Requirements

The Contractor shall propose a solution compliant with all sample task order requirements that delivers the required quality of service and availability and articulates rationale for the choice of architecture and components, including life cycle cost considerations.

Services and equipment to be provided include:

- Central satellite gateway(s) - Contractor defined location(s) with connection to the Internet
- Satellite connectivity to the remote sensor site
- Solar Power (to include battery back-up) for all equipment installed by the Contractor at four of the sites (there is AC (110 or 220 VAC) power installed at two of the sites: Puerto Williams, Chile and Ventiocho de Noviembre, Argentina).
- Three (3) Category 5e Ethernet connections to the satellite terminal (Sensor, Remote User, and motion-activated surveillance camera)
- The Contractor terminal system is required to provide PoE +5V / 250 mA or PoE IEEE 802.3af for the Government Furnished Equipment (GFE) sensor system and motion-activated surveillance camera installed at each location.
- Static private IP addresses for each site accessible through a Virtual Private Network (VPN).
- System Design
- System Documentation
- Managed Network Services
- Engineering Planning
- Installation and Sustainment Planning
 - Installation
 - Integration & Testing
 - Integrated Logistics Support
 - Operations & Maintenance

3.1 Management Requirements

3.1.1 The Contractor shall provide a detailed project schedule (e.g., Microsoft Project or equivalent) in PDF format for the entire Task Order lifecycle.

3.1.2 The Contractor shall discuss:

- 3.1.2.1 The roles and responsibilities of the Contractor and Subcontractors that will contribute to the solution, how work will be partitioned among subcontractors (if applicable), and how subcontractors will be managed.

- 3.1.2.2 Identification and assessment of the Personnel Travel, Environmental, and Safety Hazards for each remote site.
- 3.1.2.3 Establishment of U.S. Government access to a web portal to present the health of the entire solution in a consolidated view.
- 3.1.2.4 Program management approach, procedures, and performance metrics and provide an explanation of how they will be used to ensure timely system development, installation and operation.
- 3.1.2.5 Process and procedures they will employ for coordination with external offices and agencies, EAA Operations Centers, and other communications planners, managers and operators.
- 3.1.2.6 Identification and assessment of risks and a mitigation strategy that minimizes cost, schedule, and performance risk.
- 3.1.2.7 Process and procedures they will employ to develop and furnish the deliverables in Section 7.2.
- 3.1.2.8 Identification of all equipment, on a per-country basis, that are on either the International Traffic in Arms Regulations (ITAR) or Department of Commerce export control lists and provides a plan to manage the equipment in compliance with all applicable regulations.

3.2 Technical Requirements

3.2.1 System Engineering

- 3.2.1.1 The Contractor shall develop and document a solution compliant with all sample task order requirements that delivers the required quality of service and availability and articulates rationale for the choice of architecture and components, including life cycle cost considerations. The Contractor shall discuss how lessons learned from previous projects were incorporated. The Contractor shall provide a high-level network architecture diagram showing nodes and gateway locations. The Contractor shall provide coverage maps for Fixed Satellite Service (FSS) or Mobile Satellite Service (MSS) based solutions; additionally, link budgets for each remote location are required for FSS based solutions. The Contractor shall define and provide the enclosure or shelter power and network interface connections that will withstand environmental rigors at each site.

- 3.2.1.2 The Contractor shall clearly explain their recommendation for bandwidth, stating assumptions, to ensure that only the necessary amount of bandwidth is leased. The Contractor shall implement configuration management, prepare engineering documents and reference manuals, and provide engineering and testing services for the Environmental Data Network.
- 3.2.1.3 The Contractor shall identify valid installation challenges and risks (excluding any items provided as (GFE), and provide realistic mitigation for each.
- 3.2.1.4 The Contractor shall discuss how their system incorporates reliability, availability, maintainability, security, network monitoring and interoperability.
- 3.2.1.5 The Contractor shall address system flexibility and optimization, accommodating potential future needs to support either new sites or higher per-site data transfer needs or spectral optimization to minimize bandwidth needs.
- 3.2.1.6 The Contractor shall address the power requirements for the following sites: Potosi, Bolivia; Manaus, Brazil; Ciudad Bolivar, Venezuela; La Rinconada, Peru. The Contractor shall provide a solar power source for each of the four sites that include battery back-up. The solar power source shall provide power to all Contractor provided equipment and provide PoE +5V / 250 mA or PoE IEEE 802.3af for the Government Furnished Equipment (GFE) sensor system and motion-activated surveillance camera installed at each location.
- 3.2.1.7 The Contractor shall include battery back-up for the two locations that have commercial AC power (Puerto Williams, Chile and Ventiocho de Novembre, Argentina) and do not require any solar power.

3.2.2 Satellite Communications Terminals

- 3.2.2.1 The Contractor shall procure, integrate, and deploy environmentally protected enclosure (cabinet or shelter) to each remote site that will house any satellite communications terminal and ancillary equipment that requires environmental protection. Each enclosure shall be designed to withstand the environmental rigors specific to each site with a minimum rating of the exposed components at Ingress Protection (IP) 65 or equivalent. The enclosure is only required to be large enough to support the satellite communications terminal and ancillary equipment requiring environmental protection provided by the Contractor. Sizing will be Contractor defined based on the solution or equipment selected.
- 3.2.2.2 The Contractor shall ensure that all components are interoperable. The Contractor shall connect the GFE sensor and GFE motion-activated surveillance cameras Ethernet connections to their equipment and verify operation at each site. These Ethernet connections will be located within the enclosure or shelter and should not have access from the outside environment.
- 3.2.2.3 The Contractor shall explain how the solution proposed meets the Government’s Committed Information Rate (CIR) requirements. The remote Satellite Terminal locations and the summary of data transport requirements, to include bandwidth sharing for occasional personnel operational needs, are provided for each site in Table 1 below.
- 3.2.2.4 The Contractor shall provide Original Equipment Manufacturer (OEM) Terminal/Equipment Technical Specifications (e.g. datasheets) for all proposed terminal equipment.

Table 1. Summary of Data Transport Requirements

Remote Site ID	Remote Site Locations	Committed Information Rate (CIR) Requirements
Site 1	Puerto Williams, Chile	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)
Site 2	Ventiocho de Novembre, Argentina	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)
Site 3	Potosi, Bolivia	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)
Site 4	Manaus, Brazil	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)

Site 5	Ciudad Bolivar, Venezuela	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)
Site 6	La Rinconada, Peru	IP-based transport to backhaul data from sensors to the central collection point (440 kbps inbound, 440 kbps outbound)
All Sites		The network must also provide a capability to share the remote sensor bandwidth with occasional personnel operational needs. Agency personnel will arrive to the sites with a laptop and require internet service connectivity throughput up to 440 kbps outbound and up to 440 kbps inbound. The CIR rate will not increase when agency personnel travel to the remote sites.
Inbound - Data transmitted by the satellite terminal to the Gateway		
Outbound - Data transmitted by the Gateway to the satellite terminal		
Note: The network CIR is 440 kbps inbound, 440 kbps outbound		

3.2.3 Managed Network Services

- 3.2.3.1 The Contractor shall provide turnkey satellite transmission capability that includes all necessary software, hardware, service, and maintenance support to all locations. The Contractor shall be fully responsible for assuring operational availability of the system.
- 3.2.3.2 The managed network services shall include space segment, teleport, and terrestrial components as necessary to ensure a complete end-to-end communications solution between the sensor systems and the Internet. All equipment delivered as part of the complex satellite solution shall be new equipment.
- 3.2.3.3 Central satellite gateway(s) - Contractor defined location(s) with connection to the Internet. Provide all internet access through a U.S. based internet Point of Presence.
- 3.2.3.4 Space segment coverage shall include all sites in South America. FSS solutions require the Contractor to provide maps with clearly depicted and labeled contour lines, demonstrating coverage across the required locations. Contour lines should clearly demonstrate satellite gain to noise temperature ratio (G/T), effective isotropic radiated power (EIRP).
- 3.2.3.5 The Contractor shall meet or exceed a 99.5% link availability for all required satellite links to and from each remote site.

- 3.2.3.6 The Contractor shall provide a high-level network architecture diagram showing nodes and gateway locations with the technical proposal. The Contractor shall provide detailed network configuration documentation, and transmission plans (post award deliverables).
- 3.2.3.7 The Contractor will be required to meet Federal and DoD Information Assurance requirements for a Moderate Impact Information System. The Contractor's information assurance boundary is where the Contractor's services connect to the user terminals/equipment, satellite(s) employed, and systems used in the Satellite Operations Centers (SOCs), Network Operations Centers (NOCs), and teleport.

3.2.4 Testing and Installation

- 3.2.4.1 The Contractor shall develop a testing and installation plan and schedule for the system and provide it to the Government for review/approval no later than 30 calendar days after award. The Contractor shall provide a completed test and installation report to the Government within fourteen (14) calendar days of installation completion. This is a post-award deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.
- 3.2.4.2 The Contractor will be provided with a sensor system and motion-activated surveillance camera for testing at the Contractor's facility prior to the shipment of equipment to South America. The Government understands that there may be some differences in the test configuration due to satellite coverage and teleport location limitations, but the test equipment configuration and network architecture should mirror the proposed network architecture as much as practical.
- 3.2.4.3 The Contractor shall demonstrate Ethernet connection to the internet and verify link stability and data transfer (i.e. Availability and CIR). After link status has been verified the Contractor shall connect the GFE sensor and camera Ethernet connections to their equipment and verify operational testing.
- 3.2.4.4 A subject matter expert (SME) from the EAA will be available to attend testing at the Contractor's facility. The SME will provide any assistance required to make configuration changes to the sensor and surveillance systems. Additionally, the SME will have the authority to validate the test results.

- 3.2.4.5 The Government will provide a SME from the EAA to accompany the Contractor's installer(s) at each of the remote locations based off of the proposed installation schedule. Up to two (2) SMEs are available if the Contractor proposes to perform installations simultaneously. The Government will make every attempt possible to synchronize the SME's travel arrangements with the Contractor's installer(s).
- 3.2.4.6 The Contractor shall ensure that all equipment installed at the remote locations is securely installed, shielded, grounded and labeled. The Contractor shall demonstrate Ethernet connection to the internet and verify link stability and data transfer (i.e. Availability and CIR). After link status has been verified the Contractor shall connect the GFE sensor and camera Ethernet connections to their equipment and verify operations at each site.
- 3.2.4.7 The SME from the EAA accompanying the Contractor's installer(s) will provide any assistance required to make configuration changes to the sensor and surveillance systems. Additionally, the SME will have the authority to validate the installation.

3.2.5 Lifecycle Management

- 3.2.5.1 The Contractor shall present an approach for lifecycle management (on-going maintenance and operational support services, customer care and help desk support to include electromagnetic interference (EMI)/radio frequency interference (RFI) resolution support). This shall include all hardware/software elements and ancillary items necessary for maintaining an operational availability of 99.5%. The Contractor shall discuss the approach to minimize mean time between failure and mean time to repair.
- 3.2.5.2 The Contractor shall use available commercial materials to the maximum extent possible.
- 3.2.5.3 The Contractor shall address warranty service, spare parts, and field support.
- 3.2.5.4 The Contractor shall provide OEM Documentation and Manuals for all Contractor Installed Equipment.
- 3.2.5.5 The Contractor shall identify long-lead item procurement risks, and provide mitigation.

- 3.2.5.6 The Contractor shall discuss maintenance support for all sites to include the replacement of defective components, upgrades to include commercial off-the-shelf (COTS) technology insertion, and any software updates, as required.
- 3.2.5.7 The Contractor shall plan for a complete tech refresh of all Contractor provided satellite communications terminal and ancillary equipment at all remote sites. The tech refresh shall be scheduled for the beginning of first option period (Year 6) as specified in Section 4.2. The Contractor should assume an annual rate of inflation of 2.5% of the proposed equipment price in Year 1.

3.2.6 Personnel Travel, Environmental, and Safety Hazards

The Contractor shall identify and assess personnel Travel, Environmental, and Safety Hazards for each of the remote sites for which contractor personnel are required to perform equipment installation.

3.2.7 EMI/RFI Identification and Resolution

The Contractor shall have a means of satellite communications EMI/RFI identification, characterization, and geo-location. The Contractor will be required to analyze and report all EMI/RFI to the Government and may be asked to participate in exercises involving EMI/RFI. The Contractor shall explain how EMI/RFI identification and resolution will be communicated to the Government.

3.2.8 Network Monitoring

- 3.2.8.1 The Contractor shall establish, and provide the U.S. Government access to a web portal to present the health of the entire solution in a consolidated view using data from multiple sources and provide alert notification via email for any change in network operational status. Access procedures for the web portal will be established after award.
- 3.2.8.2 The Contractor shall staff a 24/7/365 Network Operations Center (NOC) as a focal point for network access, technical support, and troubleshooting. NOC staff shall be English-speaking and U.S. citizens.

- 3.2.8.3 The Contractor shall provide status reporting on equipment status, network status, and network utilization. The Contractor shall create and manage trouble tickets. The Contractor shall produce monthly and annual resource utilization reports. These are post-award contract deliverables. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.9 Frequency Clearances and Approvals

- 3.2.9.1 The Contractor shall describe the frequency clearance requirements for each of the South American locations and explain how the requirements will be met to allow transmission in Host Nations. The Contractor shall support Host Nation Agreement (HNA) efforts in obtaining international approvals for radio spectrum operations under this contract in foreign nations. The Contractor shall ensure that international services provided under this contract may be provided as scheduled with the full approval of each affected host nation. Typical services may include, but are not limited to: HNA, landing rights, operating agreements, site licenses, and frequency clearances.
- 3.2.9.2 Frequency Clearances for all terminals shall be required prior to the start of managed network services.
- 3.2.9.3 Frequency Clearances shall be requested for the maximum time period allowed by the host nation, up to the life of the contract.
- 3.2.9.4 The Contractor shall provide the Government with copies of regulatory licenses and approvals obtained to operate and use the spectrum for countries within the required service region.

3.2.10 Additional Requirements

- 3.2.10.1 The Contractor shall provide all required software and firmware for all contractor furnished equipment. See Section L.22.2 regarding submission of post-award contract deliverables.
- 3.2.10.2 The Contractor will provide an unpriced Bill of Materials (BOM) in Microsoft Excel that will include services, equipment, and labor (See Attachment J-19 or J-20).

4.0 Performance

4.1 Locations



Work is to be performed at contractor facilities and at remote sites in South America. All equipment shall be shipped from the Contractor's facility to the remote sites in South America after successful completion of testing. All travel expenses, shipping costs, taxes, customs fees and tariffs will not be evaluated as part of the price proposal.

4.2 Period of Performance

The period of performance for this Task Order will be five (5) years. In addition to the CLINs priced by the Contractor during the 5-year period of performance (Years 1 through 5), the Contractor shall propose pricing 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 option.

In the first six months after contract award, the Contractor shall acquire, integrate, test, and deliver the requested capability.

5.0 Government Support

5.1 Government Furnished Equipment/Facilities:

- Power (110 VAC or 220 VAC) will be provided at two of the sites: Puerto Williams, Chile and Ventiocho de Novembre, Argentina).
- A complete sensor and motion-activated surveillance system will be provided for testing at the Contractor's facility. Upon successful completion of testing, all GFE will be returned to the Government. The GFE used for testing will be identical to the equipment at the remote locations.
- An approved remote site where the Contractor will install the self-contained environmental enclosure and terminal equipment.
- One sensor system has been installed at each of the six EAA site and has a standard Ethernet connection, the sensor system will require PoE: +5V / 250 mA or PoE IEEE 802.3af from the Contractor.
- One motion-activated surveillance camera system has been installed at each of the six EAA sites and has a standard Ethernet connection, they will require PoE: +5V / 250 mA or PoE IEEE 802.3af from the Contractor.

6.0 Security

The Contractor shall articulate processes and procedures to address the security requirements for personnel assigned to the task order. All Contractor personnel assigned to this task shall be US citizens and possess at least United States Moderate Background Investigation (MBI) public trust clearances.

The Contractor shall ensure that all controlled unclassified information is safeguarded in accordance with the guidance provided in DoDM 5200.1, Volume 4, Information Security Program: Controlled Unclassified Information (CUI).



7.0 Deliverables

7.1 Pre-Award Deliverables (Submitted with Contractor's Proposal)

The following deliverables will be used to document the comprehensiveness of the Contractor's complex satellite solution for the Environmental Data Network.

- FSS solutions require Link Budgets
- FSS solutions require maps with clearly depicted and labeled contour lines, demonstrating coverage across the required locations. Contour lines should clearly demonstrate satellite gain to noise temperature ratio (G/T), effective isotropic radiated power (EIRP),
- MSS solutions require coverage maps and contour lines.
- High-level Network Architecture diagram showing nodes and gateway locations
- Bill of Materials
- Original Equipment Manufacturer (OEM) Terminal/Equipment Technical Specifications (e.g. datasheets)
- Project Schedule (submitted in Adobe Portable Document Format (PDF))

7.2 Post-Award Deliverables

- Detailed Network Configuration Documentation, and Transmission Plans
- OEM Documentation and Manuals for all Contractor Installed Equipment.
- Test Plan
- Testing and installation completion reports
- HNA Frequency Clearances, Regulatory Licenses and Approvals
- Status Reports
- Detailed Network Configuration
- Transmission Plan (for FSS only)

8.0 Pricing

8.1 Instructions

Section B (Supplies or Services and Prices/Costs) and the STO #1 Excel Workbook (Attachment J-9) contain all pricing instructions.

(END OF SECTION J, ATTACHMENT J-10)



ATTACHMENT J-12

Sample Task Order (STO) #3 – BASE COMMUNICATIONS NETWORK FOR OUARGLA, ALGERIA

1.0 Introduction

The U.S. Government Organization (USGO) requires a complete solution for base communications in Ouargla, Algeria. The solution will be Government-owned contractor-operated. There are 42 buildings of concrete construction, of which 40 are located within a four (4) square mile area in the center of the base. Detailed architectural drawings are not available. The base is approximately (5 mi x 5 mi) 25 square miles. The base serves approximately 1,000 personnel stationed in the Sahara Desert and communications services are required for all buildings on the base. The buildings are one and two story buildings and there are no terrain features that will mask wireless transmissions within the base boundaries. Existing telecommunications infrastructure on the base installed by the Government provides Wide Area Network (WAN) and Local Area Network (LAN) connectivity for all buildings. All WAN and LAN networking components (e.g. wiring, switches, routers, etc.) have been installed and provide Power-over-Ethernet (PoE). The Central Office and demarcation is located in the Communications Center (Building G). The interface for all networks will be a fiber optic card with SC connection. The contractor can install equipment in wiring closets and the Government will provide space, power, and cooling for the equipment. All buildings have telco/network closets and are wired with 110VAC electrical outlets, Voice over Internet Protocol (VoIP) phones, and those with Internet access requirements are wired with at least one CAT 5 Ethernet cable jack per office or desk. All VoIP phones are connected to the Defense Switched Network (DSN) and NIPRNET (hereinafter referred to as NIPR).

2.0 Objective

The objective is to obtain a complex SATCOM solution that provides base communications meeting the objectives described in this STO. Included is engineering support, system design; hardware procurement, installation, integration, and testing; communications services; logistics support; and program management. The overall objective is for the Contractor to design, test, implement, operate and maintain a total solution that provides reliable communications for all personnel and units at the operating base at Ouargla, Algeria at the most affordable cost to the Government.

3.0 Summary of Requirements

The Contractor shall propose a solution compliant with all sample task order requirements that delivers the required quality of service and availability and articulates rationale for the choice of architecture and components, including life cycle cost considerations.



Services to be provided by the Contractor include:

- System design
- System Architecture and Documentation
- Integration
- Testing
- System Engineering
- On-going maintenance and operational support services
- Customer care and help desk support
- Wireless High-speed Internet service
- Wired CAT 5 Internet service
- Commercial encryption of the satellite link
- Cellular telephone service (base station 4G LTE (Long Term Evolution) and associated hardware) to provide voice and data transmission. Cellular phone service required for local (intra-base) and long distance (via DSN) calling
- Point of Sale (POS) Service for Government furnished POS terminals
- Satellite connectivity to the military base

3.1 Management Requirements

3.1.1 The Contractor shall provide a detailed project schedule (e.g., Microsoft Project or equivalent) in PDF format for the entire Task Order lifecycle.

3.1.2 The Contractor shall discuss:

- 3.1.2.1 The roles and responsibilities of the Contractor and Subcontractors that will contribute to the solution, how work will be partitioned among subcontractors (if applicable) and how subcontractors will be managed.
- 3.1.2.2 Procedures to ensure establishment and maintenance of the logical and physical enclaves of Government encrypted traffic (NIPR, SIPRnet (hereinafter referred to as SIPR), secure voice) and contractor-provided services to avoid spillage. Red and black separation is already provided on the base and all current network cabling is already isolated for public internet, NIPR and SIPR.
- 3.1.2.3 An approach for the implementation of a web portal to present the health of the entire solution in a consolidated view.
- 3.1.2.4 Program management approach, procedures, and performance metrics and provide an explanation of how they will be used to ensure timely system development, installation and operation.

- 3.1.2.5 Processes and procedures to comply with all workforce and environmental regulations prior to and during installation of telecommunications infrastructure (e.g., satellite terminal installation).
- 3.1.2.6 Identification and assessment of risks and a mitigation strategy that minimizes cost, schedule, and performance risk.
- 3.1.2.7 Management procedures to ensure network quality of service is not diminished during peak usage of wired Internet, wireless hotspots, and cellular service.
- 3.1.2.8 Process and procedures required to develop and furnish the deliverables in Section 7.2.

3.2 Technical Requirements

3.2.1 System Engineering

- 3.2.1.1 The Contractor shall develop and document the requisite communications infrastructure to meet the requirements.
- 3.2.1.2 The Contractor shall discuss how the design of the network and network components incorporates physical and logical hardening to withstand the rigors of the Sahara Desert conditions (e.g., extreme temperatures, haboob, etc.).
- 3.2.1.3 The Contractor shall explain the rationale for the proposed network and components, including lifecycle cost considerations. The Contractor shall discuss how lessons learned from previous projects were incorporated.
- 3.2.1.4 The Contractor shall clearly explain their recommendation for bandwidth, stating assumptions, to ensure that only the necessary amount of bandwidth is leased to support their proposed aggregate throughput requirements; additionally, the Contractor shall state their assumptions for network device (e.g. VoIP phone, computer, etc.) utilization estimates on NIPR, SIPR, public internet, and Wi-Fi, when engineering their solution. The Contractor shall explain the rationale for their proposed throughput and utilization estimates based off of the requirements in Section 3.2.6 and the assumptions made by the Contractor. The Contractor shall implement configuration management, prepare engineering documents and reference manuals, and provide engineering and testing services.

- 3.2.1.5 The Contractor shall identify valid installation challenges and risks (excluding any items provided Government Furnished Equipment (GFE)), and provide realistic mitigation for each.
- 3.2.1.6 The Contractor shall discuss how their system incorporates reliability, availability, maintainability, security, network monitoring and interoperability.
- 3.2.1.7 The Contractor shall address system flexibility and optimization, accommodating potential future needs to support either new sites or higher per-site data transfer needs or spectral optimization to minimize bandwidth needs.

3.2.2 System Design

The Contractor shall design a system that:

- 3.2.2.1 Is a closed network with no connection to Algerian telecommunications infrastructure.
- 3.2.2.2 Provides connectivity to a U.S. Government Gateway that will deliver voice and data services (NIPR) and secure voice and data (SIPR). The Government will install NIPR, SIPR, and sensitive but unclassified voice capabilities (i.e. Defense Switched Network (DSN)) and encrypt this traffic prior to connection to the contractor services. The Contractor must provide transport of this black core network from the operating base in Ouargla to a commercial teleport. The traffic will be backhauled from the commercial teleport to a DoD Gateway for connection to the DoD Information Network (DoDIN). For the purpose of this STO, the Contractor may connect to one of the following DoD Gateways: Lago di Patria, Italy; Ramstein Air Base (AB), Germany; Fort Belvoir, VA, or Naval SATCOM Facility (NAVSATCOMFAC), Northwest, VA for DoDIN access. The Contractor shall identify their proposed DoD gateway based on the most efficient terrestrial connection between their proposed commercial teleport and the DoD Gateway. The Contractor shall provide commercial grade encryption for their proposed SATCOM link(s) feeding the base's communications infrastructure.

- 3.2.2.3 Meets the required quality of service for high-speed Internet service, Voice over Internet Protocol (VoIP), video teleconferencing, and PoS, and meets or exceeds a system availability of 99.5% given the environmental conditions in the Sahara Desert. The Contractor is not required to include the pre-existing Government installed infrastructure in calculating their system availability for Mean Time between Failure.
- 3.2.2.4 The satellite link and network architecture is scalable and allows for new technology insertion and network expansion.
- 3.2.2.5 Provides a level of security appropriate for the level of information that will be processed. Minimum requirement is commercial grade encryption (e.g., Advanced Encryption Standard (AES) 256 bit encryption) for unclassified traffic over the satellite link. All DoDIN networks will be encrypted by the Government prior to connection to the Contractor's proposed network via a NSA approved Type 1 encryption device.
- 3.2.2.6 Provides access to the public internet (provided by the Contractor) for facilities and services specified in Table 1; in addition to, NIPR, SIPR and DSN (provided by the DoD Gateway).
- 3.2.2.7 Provides a 4G LTE cellular network that allows for local (on-base) and long distance (via DSN) calling. The Contractor shall assume that the base has no major terrain or local spectrum interference that will restrict the cellular network. The cellular network will interconnect with the DSN utilizing a 729a codec via Ethernet or fiber SC connection. The Government will permit the Contractor to utilize the existing WAN and LAN infrastructure for connectivity to the Wi-Fi access points and cellular radio network(s).
- 3.2.2.8 Provides public internet access and Wi-Fi hotspots to the buildings specified in Table 1 for Morale, Welfare and Recreation (MWR) and commercial transactions (i.e. POS) services.

3.2.3. The Contractor should provide a description of the system and network diagrams of all Offer installed network components that demonstrate connectivity between all required structures on the base to include physical and wireless connections, and access points for Government review/approval.

3.2.4 The Contractor shall develop a test plan for the network and provide it to the Government for review/approval no later than 30 days after award. The Government reserves the right to attend all tests. The Contractor shall provide completed test reports to the Government within ten (10) days of test completion. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.5 All equipment delivered as part of the complex satellite solution shall be new equipment. The Contractor shall provide Original Equipment Manufacturer (OEM) documentation for all of the Contractor installed equipment. The Offer shall provide the following equipment documentation with the proposal:

- Original Equipment Manufacturer (OEM) cellular base station specifications
- OEM network equipment specifications to include Wi-Fi hot spots
- OEM Satellite Terminal/Equipment Technical Specifications

3.2.5.1 The Contractor shall provide a high-level network architecture diagram showing nodes and gateway locations and a base coverage map of cellular service, including in-building and overall coverage. The Contractor should provide assumptions concerning the cellular network components (e.g. repeaters) required to deliver the Wi-Fi requirements.

3.2.5.2 The Contractor shall provide as-built drawings for all equipment installations. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.5.3 The Contractor shall provide software configurations for all equipment. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.6 Infrastructure and Communication Services Requirements

The Contractor's proposed satellite solution shall support an aggregate data throughput that meets or exceeds the minimum Quality of Service requirements specified for voice, data and video traffic. The total number of base connections required is specified in Table 1. The Contractor shall describe their technical approach in developing their technical design.

3.2.6.1 The high-speed Internet Quality of Service minimum requirement is 128 kbps per computer on the network.

- 3.2.6.2 The VoIP Quality of Service minimum requirement is 32 kbps per VoIP phone.
- 3.2.6.3 The video teleconferencing Quality of Service minimum requirement is 128 kbps per conference room.
- 3.2.6.4 The Point of Sale (POS) Quality of Service minimum requirement is a rapid (4-6 seconds) satellite transmission of data to and from POS locations on the base to a credit card network for authorization of a transaction. All POS terminals are connected to the public internet.
- 3.2.6.5 The cellular telephone service minimum requirement is measured by the grade of service (GoS), which measures the ratio of unsuccessful calls to total calls attempted. For the cellular circuit, the minimum requirement for the GoS is 0.02. This means that two users of the circuit group out of a hundred will encounter a call refusal during peak traffic periods. The Government DSN voice system will meet the 0.02 GoS requirement for VoIP. Peak cellular use is not expected to exceed 50 simultaneous users. The cellular base station should be sized to support 1000 users to allow for future expansion. Current cellular user population is 300 devices. Users will access the cellular system using Government issued devices (e.g., iPhone, Blackberry, Android).
- 3.2.6.6 The Contractor shall provide the satellite transport infrastructure and communications services to support all wired and wireless (public internet, NIPR and SIPR), VoIP service (DSN), Video Teleconferencing (VTC), and POS service as described in Table 1 below.
- 3.2.6.7 Buildings requiring NIPR, SIPR, and secure voice will be connected to a Government black core network. The contractor is not required to procure, install, or operate any equipment for the black core network; however, this encrypted traffic will require transport via the contractor's commercial satellite backhaul to the contractor's teleport and require connection from the contractor's network to a Government point of presence.
- 3.2.6.8 Traffic, excluding the black core network, is expected to be 90% web (HTTP/HTTPS) and 10% other. Of the web traffic, up to 20% may be used for high-bandwidth services including video. The vast majority of voice calls are expected to be to destinations in Europe and the United States.

3.2.6.9 Existing telecommunications infrastructure provides WAN and LAN connectivity. The Contractor shall provide:

- Maintenance of the network including backhaul connections and equipment
- Maintenance and testing of all circuits
- Installation of all backhaul equipment
- Verifying operation of computer connections, VoIP phones, and Wi-Fi hotspots for all buildings

Table 1. Infrastructure and Communications Services Requirements

Building	Description	Qty	Communication Service Requirement
Offices (A)	Two-Story building; 100 desks per building; 10 conference rooms per building	5	<ul style="list-style-type: none"> • 100 individual desks per building with Ethernet connection for VoIP phone (DSN) and NIPR • 10 conference rooms per building that provide 12 wired LAN ports; six (6) each for NIPR and SIPR access and one (1) video teleconferencing (VTC) unit connected to SIPR. • SIPR service required for 40 of the desks per building
Junior Enlisted Barracks (B) 20,000 sq ft (200 ft x 50 ft) for each story	Two-Story building; 100 private rooms occupied by two persons;	5	<ul style="list-style-type: none"> • Wi-Fi service for each building connected to public internet for Morale, Welfare and Recreation (MWR) supporting up to 200 connections per building • 10 VoIP phones (in common area) in each building
Senior Enlisted Barracks (D) 20,000 sqft (200 ft x 50 ft) for each story	Two-Story building; 50 private rooms occupied by one person; one phone per room	1	<ul style="list-style-type: none"> • Wi-Fi service connected to public internet for Morale, Welfare and Recreation (MWR) supporting up to 100 connections. • 50 Ethernet connections (1 per room) for VoIP phone (DSN) and NIPR. • 15 Ethernet connections for SIPR
Officers Billeting (E) 12,000 sq ft (300 ft x 40 ft)	One-Story building; 30 private rooms occupied by one person; one phone per room	1	<ul style="list-style-type: none"> • Wi-Fi service connected to public internet for Morale, Welfare and Recreation (MWR) supporting up to 60 connections. • 30 Ethernet connections (1 per room) for VoIP phone (DSN) and NIPR. • 20 Ethernet connections for SIPR
Senior Officer Residences (F) 1600 sq ft each (40 ft x 40 ft)	One-Story	10	<ul style="list-style-type: none"> • Wi-Fi service connected to public internet for Morale, Welfare and Recreation (MWR) supporting up to 5 connections for each residence. • 1 Ethernet connections for each residence for VoIP phone (DSN) and NIPR. • 1 Ethernet connections for each private residence for SIPR
Communications Center (G)	Two-Story building, Central Office on top story	1	<ul style="list-style-type: none"> • 25 Ethernet connections for VoIP phone (DSN) and NIPR • 25 Ethernet connections for SIPR • 2 conference rooms that provide 10 wired LAN ports; five (5) each for NIPR and SIPR access and one video teleconferencing (VTC) unit. VTC will be connected to SIPR.
Base Headquarters (H)	One-Story	1	<ul style="list-style-type: none"> • 25 Ethernet connections for VoIP phone (DSN) and NIPR • 25 Ethernet connections for SIPR • 2 conference rooms that provide 20 wired LAN ports; ten (10) each for NIPR and SIPR access and one (1) video teleconferencing (VTC) unit connected to SIPR.
Supply Warehouse (I)	One-Story	2	<ul style="list-style-type: none"> • 5 Ethernet connections for VoIP phone (DSN) and NIPR per building • 2 Ethernet connections for SIPR per building
Armory (J)	One-Story	1	<ul style="list-style-type: none"> • 5 Ethernet connections for VoIP phone (DSN) and NIPR • 1 Ethernet connections for SIPR

Building	Description	Qty	Communication Service Requirement
Maintenance Facilities (K)	One-Story	3	<ul style="list-style-type: none"> • 3 Ethernet connections for VoIP phone (DSN) and NIPR per building • 1 Ethernet connections for SIPR per building
Commissary (L)	One-Story	1	<ul style="list-style-type: none"> • 3 Ethernet connections for VoIP phone (DSN) only • 12 Ethernet connections to public internet for point of sale (POS) terminals
Gas Station (M)	One-Story	1	<ul style="list-style-type: none"> • 1 Ethernet connection for VoIP phone (DSN) only • 6 Ethernet connections to public internet for point of sale (POS) terminals
Base Exchange (N) 8000 sqf ft (80 ft x 100 ft)	One-Story	1	<ul style="list-style-type: none"> • 3 Ethernet connections for VoIP phone (DSN) only • 12 Ethernet connections to public internet for point of sale (POS) terminals • Wi-Fi service connected to public internet supporting up to 200 connections
MWR Facility (O) 6300 sqf ft (70 ft x 90 ft)	Two-Story	1	<ul style="list-style-type: none"> • 15 Ethernet connections for VoIP phone (DSN) only • 15 Ethernet connection for public internet • 4 Ethernet connections to public internet for point of sale (POS) terminals • Wi-Fi service connected to public internet supporting up to 100 connections
Base Dining Facility (P) 10,000 sqf ft (100 ft x 100 ft)	One-Story	1	<ul style="list-style-type: none"> • 3 Ethernet connections for VoIP phone (DSN) only • 5 Ethernet connection for public internet • Wi-Fi service connected to public internet supporting up to 100 connections
Base Library (Q) 6300 sqf ft (70 ft x 90 ft)	One-Story	1	<ul style="list-style-type: none"> • 5 Ethernet connections for VoIP phone (DSN) only • 10 Ethernet connection for public internet • Wi-Fi service connected to public internet supporting up to 50 connections
Base Security (R)	One-Story	1	<ul style="list-style-type: none"> • 10 Ethernet connections for VoIP phone (DSN) and NIPR • 5 Ethernet connections for SIPR
Base Fire Department (S)	One-Story	1	<ul style="list-style-type: none"> • 5 Ethernet connections for VoIP phone (DSN) and NIPR • 2 Ethernet connections for SIPR
Base Medical Facility (T)	One-Story	1	<ul style="list-style-type: none"> • 20 Ethernet connections for VoIP phone (DSN) and NIPR • 5 Ethernet connections for SIPR
Base Chapel (U)	One-Story	1	<ul style="list-style-type: none"> • 4 Ethernet connections for VoIP phone (DSN) and NIPR •
Base Entrance Facility (V)	One-Story	2	<ul style="list-style-type: none"> • 2 Ethernet connections for VoIP phone (DSN) and NIPR per building • 1 Ethernet connection for SIPR per building

3.2.7 Additional Infrastructure and Services Requirements

3.2.7.1 The Contractor shall provide all public Internet access through a U.S. based Internet Point of Presence (PoP).

3.2.7.2 The Contractor shall provide cellular telephone service with a service coverage area of the entire operating base in Ouargla, Algeria (5 mi x 5 mi) 25 square miles. The cellular network shall provide connectivity to the base DSN phone service and the Contractor provided public Internet.

3.2.7.3 Computers and laptops using the network will be Government owned. The Contractor is not required to provide any computers or laptops as part of the solution.

3.2.7.4 All off-base calling (including cellular) will be via DSN

3.2.8 Lifecycle Management

3.2.8.1 The Contractor shall present an approach for lifecycle management (on-going maintenance and operational support services, customer care and help desk support to include electromagnetic interference (EMI)/radio frequency interference (RFI) resolution support. The Contractor shall provide a logistics support plan that maximizes use of standard commercial off the shelf equipment, interoperable components, and minimizes numbers and types of spares. The plan shall address inventory management, and maintenance planning, to include the approach to minimize the mean time between failure and mean time to repair. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.8.2 The managed network services shall include space segment, teleport, and terrestrial components as necessary to ensure a complete end-to-end communications solution.

3.2.8.3 Space segment coverage is only required for Algeria.

3.2.8.4 The Contractor shall meet or exceed a 99.5% link availability for all required satellite links.

3.2.8.5 The Contractor shall develop and provide link budgets and shall provide maps with clearly depicted and labeled contour lines, demonstrating coverage across the required locations. Contour lines should clearly demonstrate satellite gain to noise temperature ratio (G/T), effective isotropic radiated power (EIRP), and elevation angle values for proposed satellite(s) and covered region. The Contractor shall develop and provide a detailed network architecture, configuration documentation, and transmission plans (these will be a post-award contract deliverable). See Section L.22.2 regarding submission of post-award contract deliverables.

- 3.2.8.6 The Contractor shall have a means of satellite communications electromagnetic interference (EMI) and radio frequency interference (RFI) identification, characterization, and geo-location. The Contractor will be required to analyze and report all EMI/RFI to the Government and may be asked to participate in exercises involving EMI/RFI.
- 3.2.8.7 The Contractor will be required to meet Federal and DoD Information Assurance requirements for a Moderate Impact Information System. 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), and teleport).

3.2.9 Frequency Clearances and Approvals

- 3.2.9.1 The Contractor shall describe the frequency clearance requirements for satellite terminal(s) and explain how the requirements will be met to allow transmission in Host Nations. The Contractor shall support Host Nation Agreement (HNA) efforts in obtaining international approvals for radio spectrum operations under this contract in foreign nations. The Contractor shall ensure that international services provided under this contract may be provided as scheduled with the full approval of each affected host nation. Typical services may include, but are not limited to: host nation approvals, landing rights, operating agreements, site licenses, and frequency clearances.
- 3.2.9.2 If additional host nation support becomes necessary during the life of the task order, contract line item numbers will be added to the order at the time they are required and shall be invoiced at pass-through rates. The Contractor may be required to provide HNAs for any nation covered within the limits defined in the coverage area, as needed by the user.
- 3.2.9.3 Frequency Clearances shall be requested for the maximum time period allowed by the host nation, up to the life of the contract.
- 3.2.9.4 The Contractor shall provide the Government with copies of regulatory licenses and approvals obtained to operate and use the spectrum for countries within the required service region.

3.2.9.5 Frequency clearance for the cellular system will be coordinated by the base spectrum manager. The Offer may assume that there is no local frequency interference that would impede the deployment of their proposed cellular network.

3.2.9.6 Wi-Fi hotspots are low power and typically not included in frequency approvals.

3.2.10 Network Monitoring

3.2.10.1 The Contractor shall staff a 24/7/365 Network Operations Center (NOC) as a focal point for network access, technical support, and troubleshooting. NOC staff shall be English-speaking and U.S. citizens.

3.2.10.2 The Contractor shall be required to coordinate with planners, managers and operators at U.S. Africa Command J-6 and the DoD Gateway where the Contractor connects to the network. The Contractor shall describe the processes and procedures for coordination with these organizations.

3.2.10.3 The Contractor shall provide status reporting on equipment status, network status, and network utilization. The Contractor shall create and manage trouble tickets. The Contractor shall produce monthly and annual resource utilization reports. These will be post-award contract deliverables. See Section L.22.2 regarding submission of post-award contract deliverables.

3.2.10.4 The Contractor shall establish, and provide the U.S. Government access to a web portal to present the health of the entire solution in a consolidated view using data from multiple sources. Access procedures for the web portal will be established after award. The Government requires the Contractor to provide the fault/incident/outage reports to the Base Communications Center and the DoD Gateway that the Contractor connects to. The Contractor is responsible for storing/maintaining fault/incident/outage reports and current network operational status on the Web Portal. Storage/archival requirement is 12 months of this data.

3.2.11 Additional Requirements

- 3.2.11.1 The Contractor shall provide all required software and firmware for all contractor furnished equipment. This will be a post-award contract deliverable. See Section L.22.2 regarding submission of post-award contract deliverables. The Contractor shall be responsible for system administration, maintaining back-ups/restoral capability, firewall management, and system security to include maintaining IA compliance of all Contractor provided network equipment.
- 3.2.11.2 The Contractor will provide an unpriced Bill of Materials (BOM) in Microsoft Excel that will include services, equipment, and labor (Attachment J-13).
- 3.2.11.3 The Contractor shall specify all site preparation requirements for Contractor provided terminals and/or shelters. The Government will coordinate for all site preparation (e.g. antenna pads, anchor points, power, grounding) prior to the arrival of Contractor equipment. The southern side of the Communications Center (building G) is clear of obstructions to allow for antenna placement.

4 Performance

4.1 Locations

Work is to be performed at Government facilities. Equipment shall be shipped to the USGO location in Algeria by Government transport. The Contractor shall deliver the equipment to a USGO CONUS location (specified after award) for subsequent shipment by the Government to Algeria. The Contractor is not required to provide shipping costs or details and will not need to identify local duties or taxes, Import or export duty fees on equipment. Technical support for operations and maintenance will be required at the USGO location in Algeria.

4.2 Period of Performance

The period of performance for this Task Order will be five (5) years.

In the first six (6) months after contract award, the Contractor shall acquire, integrate, test, and deliver the requested capability.

5 Government Support

Contractor support will be provided in accordance with the US Africa Command Reporting Instructions (<http://www.africom.mil/newsroom/documents>). The Government will provide pre-deployment preparation, food, lodging, emergency medical treatment, and other life support for contractors assigned to support the USGO location in Algeria.

5.1 Government Furnished Equipment/Facilities

The Government will provide contractor workspace in Maintenance Facility, Building (K) and Communications Center, Building (G).

The Government will provide space to install, manage, and maintain equipment in the Communications Center, Building (G) and for equipment storage in one of the Supply Warehouses, Building (I).

The Government will provide the Communications Security (COMSEC) equipment (e.g., Secure Terminal Equipment (STE) or Viper) for voice services and High Assurance Internet Protocol Encryptor (HAIZE) for SIPR services.

The Government will provide Point of Sale (POS) terminals. The POS terminals require an Ethernet connection to the public Internet.

The Government will provide a ground mounting location for the satellite antenna and a structure to house the remainder of the satellite equipment.

The Government will provide 110 VAC and 220 VAC for primary power for satellite components, to include baseband equipment and other network components.

The Government will provide all local systems administration and network management of the NIPR, SIPR and VoIP (DSN) networks.

The Government will provide all VoIP devices (Cisco Unified IP Phone 7961g employing G.729a audio compression codec).

6 Security

The Contractor shall articulate processes and procedures to address the security requirements for personnel assigned to the task order.

6.1 Contractor personnel will be required to have Government authorization, a U.S. SECRET clearance, a U.S. Government-issued Common Access Card, an approved Visitor Authorization Request to access the USGO facility in Ouargla, Algeria, and meet the applicable U.S. Africa Command Reporting Instructions requirements prior to travelling.

6.2 All Contractor personnel with access to key operational security information (e.g., unit locations, troop movement information) and key personnel (e.g., Program Manager) and all Contractor personnel performing system administration functions shall possess United States SECRET security clearances.

6.3 The Contractor shall ensure that all sensitive and classified information is safeguarded in accordance with the guidance provided in the CS3 DD254. Although the Contractor may be provided access to SECRET information in order to accomplish tasks, documents generated shall not include classified information unless directed by the Government and in accordance with classification guidelines and standards for documentation.

7 Deliverables

7.1 Pre-Award Deliverables (Submitted with Contractor's Proposal)

The following deliverables will be used to document the comprehensiveness of the Contractor's complex satellite solution for the Base Communications Network for Ouargla, Algeria.

- Satellite Link Budget
- Original Equipment Manufacturer (OEM) cellular base station specifications
- OEM Satellite Terminal/Equipment Technical Specifications
- OEM network equipment specifications to include Wi-Fi hot spot
- Base coverage map of cellular service, including in-building and overall coverage
- High-level Network Architecture diagram showing nodes and gateway locations
- Maps with clearly depicted and labeled contour lines, demonstrating coverage across the required locations. Contour lines should clearly demonstrate satellite gain to noise temperature ratio (G/T), effective isotropic radiated power (EIRP), and elevation angle values for proposed satellite(s) and covered region
- Bill of Materials
- Schedule

7.2 Post-Award Deliverables

- Test Plan
- Logistics Support Plan
- HNA Frequency Clearances, Regulatory Licenses and Approvals
- As-built Drawings
- Software Configurations
- Status Reports
- All required software and firmware for Contractor furnished equipment
- Original Equipment Manufacturer (OEM) documentation for all of the Contractor installed equipment, reference manuals and engineering documents

8 Pricing

The Contractor is not required to provide any pricing for this Task Order at this time.

9 U.S. Base Ouargla, Algeria Diagram

The below diagram depicts the structures requiring services. There are 42 buildings, of which 40 are located within a 4 square mile area in the center of the base. The base is approximately (5 mi x 5 mi) 25 square miles. The base entrances are approximately 1.5 miles from the center of the base.

Note: The diagram is not drawn to scale.



U.S. BASE, OUARGLA, ALGERIA

(END OF SECTION J, ATTACHMENT J-12)



ATTACHMENT J-14
DD FORM 254 TEMPLATE

(page is intentionally blank)

DEPARTMENT OF DEFENSE

CONTRACT SECURITY CLASSIFICATION SPECIFICATION

The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED: **SECRET**
 b. LEVEL OF SAFEGUARDING REQUIRED: **SECRET**

2. THIS SPECIFICATION IS FOR: (X and complete as applicable)

a. PRIME CONTRACT NUMBER
GS00Q17NRD4002

b. SUBCONTRACT NUMBER

c. SOLICITATION OR OTHER NUMBER DUE DATE (YYYYMMDD)

3. THIS SPECIFICATION IS: (X and complete as applicable)

a. ORIGINAL (Complete date in all cases) Date (YYYYMMDD)

b. REVISED (Supersedes all previous specs) Revision No. Date (YYYYMMDD)

c. FINAL (Complete item 5 in all cases) Date (YYYYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT? YES NO, If yes, complete the following:
 Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract

5. IS THIS A FINAL DD FORM 254 YES NO, If yes, complete the following:
 In response to the contractor's request dated _____ retention of the classified material is authorized for the period of:

6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)

a. NAME, ADDRESS, AND ZIP CODE b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

8. ACTUAL PERFORMANCE

a. NAME, ADDRESS, AND ZIP CODE b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT: **This contract is to provide global satellite transmission services as specified in the statement of work associated with the respective task order.**

10. CONTRACT WILL REQUIRE ACCESS TO	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTORS FACILITY OR GOVERNMENT ACTIVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. FORMERLY RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. INTELLIGENCE INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	e. PERFORM SERVICES ONLY	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	f. HAVE ACCESS TO US CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(2) Non-SCI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. SPECIAL ACCESS INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. NATO INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	l. OTHER (specify) SEE ITEM #13	<input type="checkbox"/>	<input type="checkbox"/>
k. OTHER (Specify) (1) Personnel Minimum Security Clearance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(1) Visit Access Requests (2) Have Information Assurance Requirements (3) Ensure subcontractors comply with all DD-254 requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release.

DIRECT THROUGH (Specify)

DISA Public Affairs/CIO Offices, GSA Public Affairs, USSOCOM Public Affairs Officer for SCAMPI Information, Future COMSATCOM Services Acquisition Contracting Officers, DITCO Ordering Authority (for DoD task orders).

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

10a. The requirements and procedures for the protection of COMSEC information are set forth in the National Industrial Security Program Operating Manual (NISPOM) [current edition: DoD 5220.22-M dated February 28, 2006]. The COMSEC requirements of the NISPOM are imposed on the contractor for safeguarding the COMSEC information. Contractor is authorized to receive Government furnished cryptographic equipment. Access to any classified COMSEC information requires special briefings at the contractor's facilities. Access to classified COMSEC information requires a final U.S. Government clearance at the appropriate level. Non-accountable COMSEC information, though not tracked in the COMSEC material control system, may still require a level or control within a document control system; refer to NSA/CSS Manual 3-16, Control of Communications Security Material, page E-4 for guidance. Methods of destruction of classified COMSEC material shall comply with the NISPOM (Ref: Section 5-705 of DoD 5220.2-M). Further disclosure of COMSEC information by a contractor, to include subcontracting, requires prior approval of the government contracting activity. DoD 5220.22-M provided under separate cover.

10e(2). The contractor will abide by DCID 6/6 (formerly 1/7), Security Controls on the Dissemination of Intelligence Information, 11 July 2001. This document must be ordered upon receipt of COMSEC account.

10j. For Official Use Only information provided under this contract shall be safeguarded as specified in the NISPOM and the Defense Information System Network (DISN) Security Classification Guide [current edition: DISA Circular 300-110-3 dated August 14, 2008]. Contractor will be provided with and will abide by DoD Regulation 5400.7, DoD Freedom of Information Act Program, and DoDM 5200.1, Volume 4, Information Security Program: Controlled Unclassified Information (CUI). DISA Circular 300-110-3 and DoD Regulations 5400.7 and DoDM 5200.1, Volume 4 provided under separate cover.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract YES NO
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is required.)

TEMPEST requirements apply; guidance provided in block 13 as reference item 11i. OPSEC requirements apply; guidance provided in block 13 as reference item 11j. Information Assurance requirements apply; guidance provided in block 13 as reference item 11(2). Subcontractor compliance requirements apply; guidance provided in block 13 as reference item 11(3).

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the COGNIZANT SECURITY OFFICE. YES NO
(If yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL Donald V. Carlson	b. TITLE Systems and Security Program Manager	c. TELEPHONE (Include Area Code) (703) 306-6261
--	---	---

d. ADDRESS (Include Zip Code)
GSA/FAS/ITS, Service Development Division,
(QTCAB)
1800 & F Sts NW, Room 4039C
Washington DC 20405

e. SIGNATURE

X

Donald V. Carlson
Systems and Security Program Manager

17. REQUIRED DISTRIBUTION

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input checked="" type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input checked="" type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY DISA Industrial Security (MPS6)



ATTACHMENT J-15 DD FORM 254 TEMPLATE CONTINUATION PAGES

Prime Contract Number: GS00Q17NRD4002
Contractor (Artel, LLC)

10k(1). IAW DoD 5200.2-R, Personnel Security Program (current edition: January 1987, through Change 3, February 23, 1996), Contractor positions established in support of the Complex Commercial SATCOM Solutions (CS3) contract are assigned to one of two sensitivity designations Automated Data Processing II (ADP-II), Non-critical-Sensitive Positions or ADP-III, Non-sensitive Positions. The Contractor will ensure that individuals assigned to each sensitivity designation, as determined by the Government, have completed the appropriate forms and investigations. Necessary security clearances will be based on Defense Security Service (DSS) checks.

Required investigations will be completed prior to the assignment of individuals to sensitive duties associated with the position. The Contractor will forward employee clearance information to Defense Information System Agency (DISA) Industrial Security (MPS6).

DISA retains the right to request removal of Contractor personnel, regardless of prior clearance or adjudication status, whose action, while assigned to activities associated with this contract, clearly conflict with the interests of the Government. The reason or removal will be fully documented in writing by the Contracting Officer. When and if such removal occurs, the Contractor will within 30 working days assign qualified personnel to any vacancies thus created.

DoD 5200.2-R provided under separate cover.

11c: Contractor will reference the appropriate security classification guidance when generating or deriving classified material or hardware. All classified information received or generated will be properly stored and handled according to the markings on the material. All classified information received or generated is the property of the U.S. Government. At the termination or expiration of this contract, the U.S. Government will be contacted for proper disposition instructions. Contractor will abide by the following security classification guidance:

- DISA Circular 300-110-3, "Defense Information System Network (DISN) Security Classification Guide" [current edition dated August 14, 2008]. DISA Circular 300-110-3 provided under separate cover.
- DoDM 5200.01 Volume 1, Security Program Overview; Volume 2, Marking of Classified; and Volume 3, Protection of



Classified. DoDM 5200.01 Volumes 1, 2 and 3 will be provided under separate cover.

11d: The Contractor is required to store Communications Security (COMSEC) equipment (i.e., STEs), and associated keying material (i.e., Fortezza cards), classified document hardcopies, classified document softcopies and is required to have the following requirement(s): not less than an GSA-approved, 2 drawer, 2 cubic feet safe for storage of classified material.

11f: Contractor and its Subcontractors, when traveling or performing work outside the United States, Puerto Rico, and U.S. Possessions and Trust Territories under this contract shall:

- i. Affiliate with the Overseas Security Advisory Council, if the Contractor or Subcontractor is a U.S. entity;
- ii. Ensure personnel who are in-country on a non-transitory basis, register with the U.S. Embassy, and that Contractor or Subcontractor personnel who are third country nationals comply with any security related requirements of the Embassy of their nationality;
- iii. Provide personnel with antiterrorism/force protection awareness information commensurate with that the DoD provides to its military and civilian personnel, to the extent such information can be made available prior to travel outside the U.S.;
- iv. Obtain and comply with the most current antiterrorism/force protection guidance for Contractor personnel;
- v. Restrict performance of classified work to the sites indicated in the individual task orders.

11g: Technical information on file at the Defense Technical Information Center (DTIC) will be made available to the Contractor if the Contractor requires such information.

11h: The requirements and procedures for the protection of COMSEC information are set forth in the National Industrial Security Program Operating Manual (NISPOM) [current edition: DoD 5220.22-M dated February 28, 2006, Incorporating Change 1, March 28, 2013]. The COMSEC requirements of the NISPOM are imposed on the Contractor for safeguarding the COMSEC information. Contractor is authorized to receive Government furnished cryptographic equipment. Access to any classified COMSEC information requires special briefings at the Contractor's facilities. Access to classified COMSEC information requires a final U.S. Government clearance at the appropriate level. Non-accountable COMSEC information, though not tracked in

the COMSEC material control system, may still require a level of control within a document control system; refer to NSA/CSS Manual 3-16, Control of Communications Security Material, page E-4 for guidance. Methods of destruction of classified COMSEC material shall comply with the NISPOM (Ref: Section 5-705 of DoD 5220.22-M). Further disclosure of COMSEC information by a Contractor, to include subcontracting, requires prior approval of the Government contracting activity. DoD 5220.22-M and NSA/CSS Manual 3-16 provided under separate cover.

11i: The Contractor shall not process classified information by electrical means prior to a DISA TEMPEST evaluation of the equipment/systems and facility, and written DISA certification that the facility meets DISA TEMPEST criteria. In order to expedite the DISA TEMPEST evaluation, the Contractor shall provide a list of equipment, to include model number, which is associated with the processing of classified information. In addition, the estimated percentage of classified information processed, cable/conduit runs, a floor plan layout that depicts placement of equipment in relation to other rooms, equipment distances from walls or uncontrolled areas, and physical security being afforded the equipment both during processing and after hours. The above TEMPEST evaluation and DISA approval will not be required if previous DISA approval can be furnished and is no more than 2 years old. The existing approval must be for processing information at the same or higher level and at the same facility and items of equipment. The DISA Certified TEMPEST Technical Authority is the only authorized approving agent for TEMPEST systems within DISA.

11j: The Contractor will comply with Operations Security (OPSEC) requirements contained in the contract, NISPOM (Ref: DoD 5220.22-M), and the Industry Security Regulation (Ref: DoD 5220.22-R, Chapter 10, *Operations Security (OPSEC)*). Contractual OPSEC requirements above those contained within NISPOM shall be included in the appropriate requisition documentation (e.g., Task Order (TO) Request for Proposal) and resultant contract addendum (e.g., TO Order in sufficient detail to ensure complete Contractor understanding of exactly what special OPSEC provisions are required. DoD 5220.22-R provided under separate cover.

11k: Contractor authorization to use the Defense Courier Service will be obtained IAW DoDI 5200.33, "Defense Courier Operations" [Current edition: June 30, 2011]. DoDI 5200.33 provided under separate cover.

11l(1): All Visit Access Requests (VARs) by Contractors shall be sent via the Joint Personnel Adjudication System (JPAS) to the DISA VAR Center (JPAS SMO:DKABAA10) or appropriate Security Management Office (SMO) for the effort. The COR/TM must be notified and approve the VAR and need to know certification prior to sending the request to the facility being visited. Contractors must also provide a copy of the VAR to the security manager.



11(2): The Contractor will comply with the Information Assurance (IA) requirements contained in the contract. Minimum IA requirements provided under separate cover.

11(3): The Contractor will include all DD-254 requirements in all subcontracts necessary to delivery COMSATCOM services meeting the requirements contained in the contract and in this DD-254 (e.g., vendor providing satellite bandwidth for a specific Task Order). Contractor will ensure Subcontractor compliance with all DD-254 requirements.

General Information:

The COR/TM must be notified and approve the receipt and/or generation of classified information under this contract.

All classified information received and/or generated under this contract is the property of the U.S. Government regardless of proprietary claims. Upon completion or termination of this contract, the U.S. Government will be contacted for destruction or disposition instructions.

(END OF ATTACHMENT J-15)



ATTACHMENT J-17 Sample Task Order Link Budget Template

Template Instructions	
Please use one tab per link when submitting your Link Budgets. For each additional link past the first, new tabs should be created and completed. For example, a full duplex, 512 kbps link would require two tabs in the link budget template. One tab would be the link showing site A to site B while the second tab would demonstrate the link from site B to site A. One workbook with multiple tabs may be used for all links; it is not necessary to submit separate workbook files for each link. Please use a separate workbook file for each STO. Definitions for each parameter in the link budget are below.	
Top of Document (header information)	
LINK NAME	Descriptive name for the link contained on that tab.
Sample Task Order #:	Indicate the STO to which the Contractor is responding.
DATE	Date link budget prepared
Block 1, Satellite Characteristics	
1a. Satellite Name	Name of satellite being proposed
1b. Satellite Longitude (West/East) [deg]	Orbital location of satellite
1c. Uplink/Downlink Beam	Uplink/Downlink Beam name on which proposed transponder is located (ie. MEK, NA, Regional, etc.)
1d. Transponder Id	Name of transponder (ie. 23k, NEAVA4, etc.)
1e. Type of Band (C,Ku,C/Ku,Ku/C,X)	Band of beam provided
1f. Xpdr Total Bandwidth [MHz]	Total BW on proposed transponder
1g. UL Beam Polarization (V,H,L,R)	Uplink polarization
1h. DL Beam Polarization (V,H,L,R)	Downlink polarization
1i. Xpdr SFD (@ 0 dbi/K G/T) [dBW/m2]	Current or proposed SFD setting of transponder
Block 2, Carrier Parameters	
2a. Data Rate (including "Overhead") [kbps]	Total Data rate of proposed carrier
2b. Modulation Scheme (1-BPSK,2-QPSK,3-8PSK ... others)	Modulation used for proposed carrier
2c. Coding Type (Conv., Conv+RS, TPC, LDPC)	Type of encoding utilized
2d. Inner Code Rate (FEC Rate/Code Rate)	Inner code rate used for carrier
2e. Outer Code Rate (e.g. Reed/Solomon)	Outer code rate used for carrier
2f. Rolloff Factor/Spacing Factor	Rolloff factor of carrier
2g. Required Eb/No Threshold [dB]	Eb/No threshold required to maintain link closure
2h. Bit Error Rate (BER)	Target BER
Block 3, Transmitting Terminal	
3a. Location Name	Geographic location of terminal (ie. Qatar; Erbil, Iraq; Kabal, Afghanistan, etc)
3b. Terminal Id (Name/Number)	Terminal name or identifier (ie. WA-TFT, Swan, DKET, etc)
3c. Uplink Frequency [GHz]	Tx uplink frequency of carrier
3d. Latitude (plus for North) [deg]	Latitude of terminal
3e. Longitude (plus for East) [deg]	Longitude of terminal
3f. Elevation Angle [deg]	Look angle of terminal
3g. Tx Dish Size [m]	Antenna size of terminal in meters
3h. Uplink Tx EIRP@ Tx [dBW]	Uplink EIRP value of terminal
3i. Satellite Footprint G/T @ Tx [dB/K]	Satellite G/T value for terminal location
Block 4, Receiving Terminal	
4a. Location Name	Geographic location of terminal (ie. Qatar; Erbil, Iraq; Kabal, Afghanistan, etc)
4b. Terminal Id (Name/Number)	Terminal name or identifier (ie. WA-TFT, Swan, DKET, etc)
4c. Downlink Frequency [GHz]	Rx downlink frequency of carrier
4d. Latitude (plus for North) [deg]	Latitude of terminal
4e. Longitude (plus for East) [deg]	Longitude of terminal
4f. Elevation Angle [deg]	Look angle of terminal
4g. Rx Dish Size [m]	Antenna size of terminal in meters
4h. G/T of Rx [dB/K]	Downlink G/T value of terminal
4i. Satellite Footprint EIRP @ Rx [dBW]	Satellite EIRP value for terminal location
Block 5, Uplink and Intermod	
5a. Carrier Output Backoff at Tx Earth Station [dB]	Difference between EIRP maximum and transmit power
5b. Up Link Free Space Loss [dB]	Loss in signal strength of the uplink signal path through free space
5c. C/No Uplink Total [dBHz]	Sum of all uplink losses, gains, and Boltzmann's constant

5d. C/I _{Mo} Intermod [dBHz]	Ratio of average received modulated carrier power and combination of all interferences
Block 6, Downlink	
6a. Carrier Output Backoff at Transmitting Transponder [dB]	Difference between satellite EIRP and the individual carrier power
6b. Down Link Free Space Loss [dB]	Loss in signal strength of the downlink signal path through free space
6c. C/No Downlink Total [dBHz]	Sum of all downlink losses, gains, and Boltzmann's constant
6d. C/I _o Interference [dBHz]	Ratio of average received modulated carrier power and combination of all interferences
Block 7, Total (Uplink + Downlink + Intermod + Other Interference)	
7a. C/No Overall [dBHz]	Overall (uplink and downlink) ratio of carrier power over noise and all interferences.
7b. System Link Margin (including Rain Model) [dB]	Difference between Required Eb/No and target Eb/No including margins to overcome rain fade and interference
7c. Total Link Availability (end-to-end) [%]	Calculated availability based on ITU Rain Fade Models and interference
7d. Required Thresh. Eb/No + Sys. Link Margin [dB]	Target Eb/No including margins to overcome rain fade and interference
Block 8	
8a. Required Bandwidth [%]	Required percentage of transponder bandwidth to support proposed carrier
8b. Required Bandwidth [MHz]	Required bandwidth in Mhz to support proposed carrier
Block 9, Transponder Power Bandwidth Utilization	
9a. Required Power Equivalent BW (PEB) [%]	Required percentage of transponder PEB to support proposed carrier power
9b. Required Power Equivalent BW (PEB) [MHz]	Required PEB in Mhz to support proposed carrier power

LINK NAME		Sample Task Order #	DATE
Satellite & Carrier Characteristics			
1. Satellite Characteristics			
1a. Satellite Name			
1b. Satellite Longitude (West/East) [deg]			
1c. Uplink/Downlink Beam			
1d. Transponder Id			
1e. Type of Band (C,Ku,C/Ku,Ku/C,X)			
1f. Xpdr Total Bandwidth [MHz]			
1g. UL Beam Polarization (V,H,L,R)			
1h. DL Beam Polarization (V,H,L,R)			
1i. Xpdr SFD (@ 0 dBi/K G/T) [dBW/m2]			
Terminal Characteristics			
3. Transmitting Terminal Tx			
3a. Location Name			
3b. Terminal Id (Name/Number)			
3c. Uplink Frequency [GHz]			
3d. Latitude (plus for North) [deg]			
3e. Longitude (West/East) [deg]			
3f. Elevation Angle [deg]			
3g. Tx Dish Size [m]			
3h. Uplink Tx EIRP @ Tx [dBW]			
3i. Satellite Footprint G/T @ Tx [dB/K]			
Link Budgets (including Rain statistics)			
5. Uplink & Intermod			
5a. Carrier Output Backoff at Tx Earth Station [db]			
5b. Up Link Free Space Loss [dB]			
5c. C/No Uplink Total [dBHz]			
5d. C/(I+Mo Intermod + Io + X-Po) Uplink [dBHz]			
7. Total (Uplink + Downlink + Intermod + Other Interference)			
7a. C/No Overall [dBHz]			
7b. System Link Margin (including Rain Model) [dB]			
8. Transponder Bandwidth Utilization			
8a. Required Bandwidth [%]			
8b. Required Bandwidth [MHz]			
2. Carrier Parameters			
2a. Data Rate (including "Overhead") [kbps]			
2b. Modulation Scheme (BPSK, QPSK, 8PSK ... others)			
2c. Coding Type (Conv., Conv+RS, TPC, LDPC)			
2d. Inner Code Rate (FEC Rate/Code Rate)			
2e. Outer Code Rate (e.g. Reed/Solomon)			
2f. Rolloff Factor/Spacing Factor			
2g. Required Eb/No Threshold [dB]			
2h. Bit Error Rate (BER)			
4. Receiving Terminal Rx			
4a. Location Name			
4b. Terminal Id (Name/Number)			
4c. Downlink Frequency [GHz]			
4d. Latitude (plus for North) [deg]			
4e. Longitude (West/East) [deg]			
4f. Elevation Angle [deg]			
4g. Rx Dish Size [m]			
4h. G/T of Rx [dB/K]			
4i. Satellite Footprint EIRP @ Rx [dBW]			
6. Downlink & Intermod			
6a. Carrier Output Backoff at Transmitting Transponder [dB]			
6b. Down Link Free Space Loss [dB]			
6c. C/No Downlink Total [dBHz]			
6d. C/(I+Mo Intermod + Io + X-Po) Downlink [dBHz]			
7c. Total Link Availability (end-to-end) [%]			
7d. Required Thresh. Eb/No + Sys. Link Margin [dB]			
9. Transponder Power Bandwidth Utilization			
9a. Required Power Equivalent BW (PEB) [%]			
9b. Required Power Equivalent BW (PEB) [MHz]			

Site A to Site B		STO # 1		29-Oct-15	
Satellite & Carrier Characteristics					
1. Satellite Characteristics					
1a. Satellite Name	E 70A	2. Carrier Parameters		8192	
1b. Satellite Longitude (West/East) [deg]	116 E	2a. Data Rate (including "Overhead") [kbps]	QPSK		
1c. Uplink/Downlink Beam	Fixed	2b. Modulation Scheme (BPSK, QPSK, 8PSK, 16PSK, 64QAM, etc.)	Conv+RS		
1d. Transponder Id	D1	2c. Coding Type (Conv., Conv+RS, TPC, LDPC)	0.875		
1e. Type of Band (C,Ku,C/Ku,Ku/C,X)	Ku	2d. Inner Code Rate (FEC Rate/Code Rate)	(219/201)		
1f. Xpdr Total Bandwidth [MHz]	72.00	2e. Outer Code Rate (e.g. Reed/Solomon)	1.35		
1i. UL Beam Polarization (V,H,L,R)	Y	2f. Rolloff Factor/Spacing Factor	6.9		
1j. DL Beam Polarization (V,H,L,R)	X	2g. Required Eb/No Threshold [dB]	1.0E-07		
1k. Xpdr SFD (@ 0 dB/K G/T) [dBW/m2]	-78.00	2h. Bit Error Rate (BER)			
Terminal Characteristics					
3. Transmitting Terminal Tx					
3a. Location Name	Site A	4. Receiving Terminal Rx			
3b. Terminal Id (Name/Number)	OKET 13	4a. Location Name	Site B		
3c. Uplink Frequency [GHz]	13.79167	4b. Terminal Id (Name/Number)	OKET 48		
3d. Latitude (plus for North) [deg]	Numbers	4c. Downlink Frequency [GHz]	11.49167		
3e. Longitude (West/East) [deg]	Numbers	4d. Latitude (plus for North) [deg]	Numbers		
3f. Elevation Angle [deg]	53.63	4e. Longitude (West/East) [deg]	Numbers		
3g. Tx Dish Size [m]	4.80	4f. Elevation Angle [deg]	62.54		
3h. Uplink Tx EIRP @ Tx [dBW]	62.34	4g. Rx Dish Size [m]	3.80		
3i. Satellite Footprint G/T @ Tx [dB/K]	3.50	4h. G/T of Rx [dB/K]	30.60		
Link Budget with Included Rain Model					
5. Uplink					
5a. Carrier Output Backoff at Tx Earth Station [db]	18.58	6. Downlink			
5b. Up Link Free Space Loss [dB]	206.56	6a. Carrier Output Backoff at Transmitting Transponder [dB]	13.88		
5c. C/No Uplink Total [dBHz]	87.77	6b. Down Link Free Space Loss [dB]	204.87		
5d. C/(Mo+Io) Intermod + Interference [dBHz]	93.77	6c. C/No Downlink Total [dBHz]	80.94		
7. Total (Uplink + Downlink + Intermod + Other Interference)					
7a. C/(No+Mo+Io) Overall [dBHz]	79.15	6d. C/(Mo+Io) Intermod + Interference [dBHz]	86.94		
7b. System Link Margin (including Rain Model)[dB]	3.12	7c. Total Link Availability (end-to-end) [%]	99.929%		
8. Transponder Bandwidth Utilization					
8a. Required Bandwidth [%]	9.58%	7d. Required Threshold Eb/No + System Link Margin [dB]	10.02		
8b. Required Bandwidth [MHz]	6.900	9. Transponder Power Bandwidth Utilization			
		9a. Required Power Equivalent BW (PEB) [%]	9.58%		
		9b. Required Power Equivalent BW (PEB) [MHz]	6.900		

Site B to Site A		STO # 1		29-Oct-15	
Satellite & Carrier Characteristics					
1. Satellite Characteristics					
1a. Satellite Name	E 70A	2. Carrier Parameters			
1b. Satellite Longitude (West/East) [deg]	116 E	2a. Data Rate (including "Overhead") [kbps]			
1c. Uplink/Downlink Beam	Fixed	2b. Modulation Scheme (BPSK, QPSK, 8PSK ... others)			
1d. Transponder Id	D1	2c. Coding Type (Conv., Conv+RS, TPC, LDPC)			
1e. Type of Band (C,Ku,C/Ku,Ku/C,X)	Ku	2d. Inner Code Rate (FEC Rate/Code Rate)			
1f. Xpdr Total Bandwidth [MHz]	72.00	2e. Outer Code Rate (e.g. Reed/Solomon)			
1i. UL Beam Polarization (V,H,L,R)	Y	2f. Rolloff Factor/Spacing Factor			
1j. DL Beam Polarization (V,H,L,R)	X	2g. Required Eb/No Threshold [dB]			
1k. Xpdr SFD (@ 0 dB/K G/T) [dBW/m2]	-78.00	2h. Bit Error Rate (BER)			
Terminal Characteristics					
3. Transmitting Terminal Tx					
3a. Location Name	Site B	4. Receiving Terminal Rx			
3b. Terminal Id (Name/Number)	OKET 48	4a. Location Name			
3c. Uplink Frequency [GHz]	13.79167	4b. Terminal Id (Name/Number)			
3d. Latitude (plus for North) [deg]	Numbers	4c. Downlink Frequency [GHz]			
3e. Longitude (West/East) [deg]	Numbers	4d. Latitude (plus for North) [deg]			
3f. Elevation Angle [deg]	62.54	4e. Longitude (West/East) [deg]			
3g. Tx Dish Size [m]	3.80	4f. Elevation Angle [deg]			
3h. Uplink Tx EIRP @ Tx [dBW]	63.00	4g. Rx Dish Size [m]			
3i. Satellite Footprint G/T @ Tx [dB/K]	-4.00	4h. G/T of Rx [dB/K]			
Link Budget with Included Rain Model					
5. Uplink					
5.a. Carrier Output Backoff at Tx Earth Station [db]	25.31	6. Downlink			
5b. Up Link Free Space Loss [dB]	206.46	6a. Carrier Output Backoff at Transmitting Transponder [dB]			
5c. C/No Uplink Total [dBHz]	81.04	6b. Down Link Free Space Loss [dB]			
5d. C/(I _{Mo+Io}) Intermod + Interference [dBHz]	87.04	6c. C/No Downlink Total [dBHz]			
7. Total (Uplink + Downlink + Intermod + Other Interference)					
7a. C/(No+I _{Mo+Io}) Overall [dBHz]	77.69	6d. C/(I _{Mo+Io}) Intermod + Interference [dBHz]			
7b. System Link Margin (including Rain Model)[dB]	1.65	7c. Total Link Availability (end-to-end) [%]			
8. Transponder Bandwidth Utilization					
8a. Required Bandwidth [%]	9.58%	7d. Required Threshold Eb/No + System Link Margin [dB]			
8b. Required Bandwidth [MHz]	6.900	9. Transponder Power Bandwidth Utilization			
		9a. Required Power Equivalent BW (PEB) [%]			
		9b. Required Power Equivalent BW (PEB) [MHz]			
		20.61			
		204.98			
		82.41			
		88.41			
		99.879%			
		8.55			
		2.03%			
		1.465			

TDMA to worst case scenario		STO # 2		29-Oct-15
Satellite & Carrier Characteristics				
1. Satellite Characteristics				
1a. Satellite Name		E 70A		2000
1b. Satellite Longitude (West/East) [deg]		116 E		QPSK
1c. Uplink/Downlink Beam		Fixed		LDPC
1d. Transponder Id		D1		0.500
1e. Type of Band (C,Ku,C/Ku,Ku/C,X)		Ku		1.00
1f. Xpdr Total Bandwidth [MHz]		72.00		1.35
1i. UL Beam Polarization (V,H,L,R)		Y		1.7
1j. DL Beam Polarization (V,H,L,R)		X		1.0E-07
1k. Xpdr SFD (@ 0 dB/K G/T) [dBW/m ²]		-78.00		
Terminal Characteristics				
3. Transmitting Terminal Tx				
3a. Location Name		HUB		Spoke
3b. Terminal Id (Name/Number)		OKET 88		OKET 99
3c. Uplink Frequency [GHz]		13.79167		11.49167
3d. Latitude (plus for North) [deg]		Numbers		Numbers
3e. Longitude (West/East) [deg]		Numbers		Numbers
3f. Elevation Angle [deg]		53.64		53.64
3g. Tx Dish Size [m]		4.90		1.50
3h. Uplink Tx EIRP @ Tx [dBW]		58.26		23.00
3i. Satellite Footprint G/T @ Tx [dB/K]		3.50		47.60
Link Budget with Included Rain Model				
5. Uplink				
5.a. Carrier Output Backoff at Tx Earth Station [db]		22.66		17.96
5b. Up Link Free Space Loss [dB]		206.56		204.98
5c. C/No Uplink Total [dBHz]		83.70		76.26
5d. C/(IMo+Io) Intermod + Interference [dBHz]		89.70		82.26
7. Total (Uplink + Downlink + Intermod + Other Interference)				
7a. C/(No+IMo+Io) Overall [dBHz]		74.57		99.990%
7b. System Link Margin (including Rain Model)[dB]		9.86		11.56
8. Transponder Bandwidth Utilization				
8a. Required Bandwidth [%]		3.75%		3.75%
8b. Required Bandwidth [MHz]		2.700		2.700
2. Carrier Parameters				
2a. Data Rate (including "Overhead") [kbps]				
2b. Modulation Scheme (BPSK, QPSK, 8PSK, ... others)				
2c. Coding Type (Conv., Conv+RS, TPC, LDPC)				
2d. Inner Code Rate (FEC Rate/Code Rate)				
2e. Outer Code Rate (e.g. Reed/Solomon)				
2f. Rolloff Factor/Spacing Factor				
2g. Required Eb/No Threshold [dB]				
2h. Bit Error Rate (BER)				
4. Receiving Terminal Rx				
4a. Location Name				
4b. Terminal Id (Name/Number)				
4c. Downlink Frequency [GHz]				
4d. Latitude (plus for North) [deg]				
4e. Longitude (West/East) [deg]				
4f. Elevation Angle [deg]				
4g. Rx Dish Size [m]				
4h. G/T of Rx [dB/K]				
4i. Satellite Footprint EIRP @ Rx [dBW]				
6. Downlink				
6a. Carrier Output Backoff at Transmitting Transponder [dB]				
6b. Down Link Free Space Loss [dB]				
6c. C/No Downlink Total [dBHz]				
6d. C/(IMo+Io) Intermod + Interference [dBHz]				
7c. Total Link Availability (end-to-end) [%]				
7d. Required Threshold Eb/No + System Link Margin [dB]				
9. Transponder Power Bandwidth Utilization				
9a. Required Power Equivalent BW (PEB) [%]				
9b. Required Power Equivalent BW (PEB) [MHz]				