Hughes Network Systems, LLC
11717 Exploration Lane, Germantown, MD 20876
301-428-5500 | www.government.hughes.com

Contract Number: **GS-35F-0907P**
Period Covered by Contract: September 29, 2014 through September 28, 2019

General Services Administration
Federal Supply Service

Pricelist current through Modification #PS-0080, dated June 9, 2016

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! By accessing the Federal Supply Service's Home Page via the Internet at http://www.fss.gsa.gov/

AUTHORIZED FEDERAL SUPPLY SERVICE
INFORMATION TECHNOLOGY SCHEDULE PRICELIST
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, SOFTWARE, AND SERVICES

Special Item No. 132-3	Leasing
Special Item No. 132-8	Purchase of General Purpose Commercial Information Technology New Equipment
Special Item No. 132-9	Purchase of Used or Refurbished Equipment
Special Item No. 132-12	Maintenance, Repair Service, and Repair Parts/Spare Parts
Special Item No. 132-50	Training Courses
Special Item No. 132-51	Professional Services
Special Item No. 132-52	Electronic Commerce Services
Special Item No. 132-54	Transponded Capacity
Special Item No. 132-55	Subscription Services
Special Item No. 132-100	Ancillary Supplies and/or Services

SPECIAL ITEM NUMBER 132-3 LEASING

SPECIAL ITEM NUMBER 132-8 PURCHASE OF NEW EQUIPMENT

FSC CLASS 7025 - INPUT/OUTPUT AND STORAGE DEVICES

Network Equipment

FSC CLASS 5820 - RADIO AND TELEVISION COMMUNICATION EQUIPMENT

Airborne Satellite Communications Equipment

FSC CLASS 5821 - RADIO AND TELEVISION COMMUNICATION EQUIPMENT, AIRBORNE

Airborne Radio Transmitters/Receivers

FSC CLASS 5895 - MISCELLANEOUS COMMUNICATION EQUIPMENT

Miscellaneous Communications Equipment

Installation (FPDS Code N070) for Equipment Offered

Note: Installation must be incidental to, in conjunction with, and in direct support of the products sold under Special Item Numbers (SINs) 132-8 of this contract and cannot be purchased separately. If the construction, alteration, or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act apply. In applying the Davis-Bacon Act, ordering activities are required to incorporate wage rate determinations into orders, as applicable.

SIN 132-9 - PURCHASE OF USED OR REFURBISHED EQUIPMENT

SIN 132-12 - MAINTENANCE OF EQUIPMENT, REPAIR SERVICE, AND REPAIR PARTS/SPARE PARTS

(FPDS Code J070 - Maintenance and Repair Service) (Repair Parts/Spare Parts - See FSC Class for basic equipment)

Maintenance

SIN 132-50 - TRAINING COURSES

(FPDS Code U012)

SIN 132-51 – INFORMATION TECHNOLOGY PROFESSIONAL SERVICES

SIN 132-52 - ELECTRONIC COMMERCE (EC) SERVICES

FPDS Code D304 Internet Access Services

SIN 132-54 – COMSATCOM TRANSPONDED CAPACITY

SIN 132-55 – COMSATCOM SUBSCRIPTION SERVICES

TABLE OF CONTENTS

TABLE OF CONTENTS (Cont)

TABLE OF CONTENTS (Cont)

Section **Page**

TABLE OF CONTENTS (Cont)

Section **Page**

TABLE OF CONTENTS (Cont)

LIST OF FIGURES

Figure **Page**

LIST OF TABLES

Table **Page**

INFORMATION FOR ORDERING ACTIVITIES

SPECIAL NOTICE TO AGENCIES: Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Supply Schedules Program. To enhance Small Business Participation, SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!™ online shopping service (www.fss.gsa.gov). The catalogs/pricelists, GSA Advantage!™ and the Federal Supply Service Home Page (www.fss.gsa.gov) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1. GEOGRAPHIC SCOPE OF CONTRACT

Domestic delivery is delivery within the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and US territories. Domestic delivery also includes a port or consolidation point, within the aforementioned areas, for orders received from overseas activities.

Overseas delivery is delivery to points outside of the 48 contiguous states, Washington, DC, Alaska, Hawaii, Puerto Rico, and US territories.

Offerors are requested to check one of the following boxes:

[X] The Geographic Scope of Contract will be domestic for all SINs and include overseas delivery for SIN 132-54 (Transponded Capacity).

[ ] The Geographic Scope of Contract will be overseas delivery only.

[ ] The Geographic Scope of Contract will be domestic delivery only.

2. CONTRACTOR'S ORDERING ADDRESS AND PAYMENT INFORMATION

Ordering Address:

Hughes Network Systems, LLC
Attn: David Tuscano
11717 Exploration Lane
Germantown, MD 20876

Payment Information:

For payment by check:
Hughes Network Systems, LLC
P.O. Box 64136
Baltimore, MD 21264

Credit cards will be acceptable for payment above the micropurchase threshold. In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering activities to obtain technical and/or ordering assistance:

- **Ordering**: (844) 817-9102

Hughes Very Small Aperture Terminal (VSAT) Technical Support (sites who ordered remote maintenance): 1-800-347-3272

- **Company ID code enter**: GSC (Telephone keypad 472)
- **Technical support**: Follow Instructions
- **Billing support**: Follow Instructions

C-Com Vehicle-Mounted or Flyaway Hughes VSAT System Technical Support:

- 1-800-233-0218
- 1-877-463-8886

Technical support for C-Com terminals between the hours of 8:30 a.m. – 6:00 p.m. Eastern Time, Monday - Friday (excluding Canadian holidays) is provided at no cost to sites that are under a C-Com warranty or extended warranty. Hourly rates apply for terminals not under warranty or for calls that are outside the normal business hours shown above.

3. LIABILITY FOR INJURY OR DAMAGE

The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. STATISTICAL DATA FOR GOVERNMENT ORDERING OFFICE COMPLETION OF STANDARD FORM 279

Block 9: G. Order/Modification under Federal Schedule
Block 16: Data Universal Numbering System (DUNS) Number: ***056886380***
Block 30: Type of Contractor - C. Large Business
Block 31: Woman-Owned Small Business - **No**
Block 36: Contractor's Taxpayer Identification Number (TIN): ***52-2358833***

a. CAGE Code: *3L0W2*

b. Contractor has registered with the Central Contractor Registration Database.

5. FOB DESTINATION

6. DELIVERY SCHEDULE

a. **TIME OF DELIVERY:** The Contractor shall deliver to destination within the number of calendar days After Receipt of Order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (DAYS ARO)
132-8 Equipment	30 days
132-50 Training Courses	As negotiated with ordering activity
132-54 Transponded Capacity	15 days (standard)
132-55 Subscription Services Internet	
Customer contacted within 2 days of delivery. Standard installs will be completed between 15 - 21 days.	
Expedited Continental US (CONUS) installation will be completed <15 days. Expedited CLIN needs to be ordered at ARO.	
132-52	As negotiated with ordering activity.

b. **URGENT REQUIREMENTS:** When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt (telephonic replies shall be confirmed by the Contractor in writing). If the Contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to the agreed-upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

Expedited VSAT delivery and installation in 15 days is available at $299.75 as listed in the pricelist.

i. For SIN 132-55, ACCELERATED SERVICE DELIVERY (7 calendar days or less): The time required for COMSATCOM services to be available after order award. Under Accelerated Service Task Orders, service acceptance testing, unless otherwise required by the satellite provider or host nation, shall be deferred until Ordering Activity operations permit.

ii. For SIN 132-55, TIME-CRITICAL DELIVERY (4 hours or less): The time required for COMSATCOM services to be available after order award. Under Time-Critical Task Orders, service acceptance testing, unless otherwise required by the satellite provider or host nation, shall be deferred until Ordering Activity operations permit. Time-Critical Delivery shall be predicated on the availability of COMSATCOM transponded capacity (contracted bandwidth and power, prearranged Host Nation Agreements, frequency clearance, etc.) or COMSATCOM subscription services (bandwidth, terminals, network resources, etc.).

iii. For SIN 132-55, EXTENDED SERVICE DELIVERY TIMES: The time required under extenuating circumstances for COMSATCOM services to be available after order award. Such extenuating circumstances may include extended time required for host nation agreements or landing rights, or other time-intensive service delivery requirements as defined in the individual requirement. Any such extended delivery times will be negotiated between the Ordering Activity and Contractor.

iv. For SIN 132-54, ACCELERATED SERVICE DELIVERY, TIME-CRITICAL DELIVERY, and EXTENDED SERVICE DELIVERY TIMES may be negotiated with the Contractor as available.

7. DISCOUNTS

Prices shown are net prices; basic discounts have been deducted.

a. Prompt payment: ***None***

b. Quantity: ***None***

c. Dollar volume: ***None***

d. Government Educational Institutions are offered the same discounts as all other Government customers

e. Other: When an authorized authority purchases an initial contract term of more than 3 years, an additional 5% discount will be applied to the purchase of new equipment (placed on the same order), monthly recurring maintenance services, and monthly recurring Internet access services

8. TRADE AGREEMENTS ACT OF 1979, AS AMENDED

All items are US made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products, as defined in the Trade Agreements Act of 1979, as amended.

9. STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING

Not applicable to this contract.

10. SMALL REQUIREMENTS

The minimum dollar value of orders to be issued is ***$50.00***.

11. MAXIMUM ORDER

(All dollar amounts are exclusive of any discount for prompt payment.)

a. The maximum order values for the following SINs are:

SIN 132-3	Leasing of Equipment ($500,000)
SIN 132-8	Purchase of Equipment ($500,000)
SIN 132-9	Purchase of Used or Refurbished Equipment ($500,000)
SIN 132-12	Maintenance of Equipment, Repair Service, and Repair Parts/Spare Parts ($500,000)
SIN 132-50	Training Courses ($25,000)
SIN 132-51	IT Professional Services ($500,000)
SIN 132-52	Electronic Commerce (EC) Services ($500,000)
SIN 132-54	Transponded Capacity ($500,000)
SIN 132-55	Subscription Services ($500,000)
SIN 132-100	Ancillary Supplies and or Services ($150,000)

12. ORDERING PROCEDURES FOR FEDERAL SUPPLY SCHEDULE CONTRACTS

Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an order or establishing a Blanket Purchase Agreement (BPA) for supplies or services. These procedures apply to all schedules.

a. FAR 8.405-1: Ordering procedures for supplies and services not requiring a statement of work (SOW)

b. FAR 8.405-2: Ordering procedures for services requiring a SOW

13. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS

Ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

a. Federal Information Processing Standards Publications (FIPS PUBS)

Information Technology products under this Schedule that do not conform to FIPS should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." FIPS PUBS are issued by the US Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

b. FED-STDS

Telecommunication products under this Schedule that do not conform to FED-STDS should not be acquired unless a waiver has been granted in accordance with the applicable FED-STD. Federal Telecommunication Standards are issued by the US Department of Commerce, NIST, pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202) 619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the US Department of Commerce, NIST, Gaithersburg, MD 20899, telephone number (301) 975-2833.

14. CONTRACTOR TASKS/SPECIAL REQUIREMENTS (C-FSS-370) (NOVEMBER 2001)

a. Security Clearances: The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.

b. Travel: The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub .L. 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed-price item on orders placed under the Multiple Award Schedule. The Industrial Funding Fee does NOT apply to travel and per diem charges.

Note: Refer to FAR Part 31.205-46 Travel Costs for allowable costs that pertain to official company business travel in regards to this contract.

c. Certifications, Licenses, and Accreditations: As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses, and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such certifications, licenses, and accreditations should be factored into the price offered under the Multiple Award Schedule program.

d. Insurance: As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.

e. Personnel: The Contractor may be required to provide key personnel, resumes, or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.

f. Organizational Conflicts of Interest: Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor's participation in such order may be restricted in accordance with FAR Part 9.5.

g. Documentation/Standards: The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards, and documentation, as specified by the agency's order.

h. Data/Deliverable Requirements: Any required data/deliverables at the ordering level will be as specified or negotiated in the agency's order.

i. Government-Furnished Property: As specified by the agency's order, the Government may provide property, equipment, materials, or resources as necessary.

j. Availability of Funds: Many Government agencies' operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government's obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.

15. CONTRACT ADMINISTRATION FOR ORDERING ACTIVITIES

Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l), Termination for the ordering activity's convenience, and (m), Termination for Cause (See C.1.)

16. GSA ADVANTAGE!

GSA Advantage! is an online, interactive electronic information and ordering system that provides online access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

a. Manufacturer

b. Manufacturer's part number

c. Product categories

Agencies can browse GSA Advantage! by accessing the Internet utilizing a browser (e.g., Netscape). The Internet address is http://www.fss.gsa.gov/.

17. PURCHASE OF OPEN-MARKET ITEMS

Note: Open-Market Items are also known as incidental items, noncontract items, nonscheduled items, and items not on a Federal Supply Schedule contract. Other direct costs (ODCs) are not part of this contract and should be treated as open-market purchases. Ordering Activities procuring open market items must follow FAR 8.402(f).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply multiple award schedule (MAS) – referred to as open market items – to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if**:

a. All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply MAS have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19).

b. The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable.

c. The items are clearly labeled on the order as items not on the Federal Supply Schedule.

d. All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18. CONTRACTOR COMMITMENTS, WARRANTIES, AND REPRESENTATIONS

a. For the purpose of this contract, commitments, warranties, and representations include, in addition to those agreed to for the entire schedule contract:

i. Time of delivery/installation quotations for individual orders.

ii. Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design, and/or functional characteristics, and capabilities of a product/equipment/service/software package submitted in response to requirements which result in orders under this schedule contract.

iii. Any representations and/or warranties concerning the products made in any literature, description, drawings, and/or specifications furnished by the Contractor.

b. The above is not intended to encompass items not currently covered by the GSA Schedule contract.

19. OVERSEAS ACTIVITIES

The terms and conditions of this contract shall apply to all orders for installation, maintenance, and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

Not applicable

Upon request of the Contractor, the ordering activity may provide the Contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis and will only be provided to the Contractor's technical personnel, whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20. BPAS

The use of BPAs under any schedule contract to fill repetitive needs for supplies or services is allowable. BPAs may be established with one or more schedule contractors. The number of BPAs to be established is within the discretion of the ordering activity establishing the BPA and should be based on a strategy that is expected to maximize the effectiveness of the BPA(s). Ordering activities shall follow FAR 8.405-3 when creating and implementing BPA(s).

21. CONTRACTOR TEAM ARRANGEMENTS

Contractors participating in contractor team arrangements must abide by all terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting (i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract).

22. INSTALLATION, DEINSTALLATION, AND REINSTALLATION

The Davis-Bacon Act (40 USC. 276a-276a-7) provides that contracts in excess of $2,000 to which the US or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the US, shall contain a clause that no laborer or mechanic employed directly on the site of the work shall receive less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration, or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act apply.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8.

23. SECTION 508 COMPLIANCE

If applicable, Section 508 compliance information on the supplies and services in this contract are available in electronic and information technology (EIT) at the following:

Not Applicable

The EIT standard can be found at: www.Section508.gov/.

24. PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES

Prime Contractors (on cost-reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order:

a. A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor)

b. The following statement:

   i. This order is placed under written authorization from _____ dated _____. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.

25. INSURANCE—WORK ON A GOVERNMENT INSTALLATION (JAN 1997) (FAR 52.228-5)

a. The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

b. Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective.

   i. For such period as the laws of the State in which this contract is to be performed prescribe; or

ii. Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

c. The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance and make copies available to the Contracting Officer upon request.

26. SOFTWARE INTEROPERABILITY

a. Offerors are encouraged to identify within their software items any component interfaces that support open standard interoperability. An item's interface may be identified as interoperable on the basis of participation in a Government agency-sponsored program or in an independent organization program. Interfaces may be identified by reference to an interface registered in the component registry located at http://www.core.gov.

27. ADVANCE PAYMENTS

A payment under this contract to provide a service or deliver an article for the US Government may not be more than the value of the service already provided or the article already delivered. Advance or prepayment is not authorized or allowed under this contract (31 USC. 3324).

TERMS AND CONDITIONS APPLICABLE TO LEASING OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY PRODUCTS (SIN 132-3)

TERMS AND CONDITIONS

Note: Under SIN 132-3 Leasing of Products, there are two sets of terms and conditions. Option 1 does not contain a cancellation clause, and all leases automatically expire on September 30 or sooner. Option 2 contains a cancellation clause, in which the fee must be in accordance with applicable legal principles. You may offer either option or both options.

LEASE TYPES

The Government will consider proposals for the following lease types:

a. Lease to Ownership

b. Lease with Option to Own

Orders for leased products must specify the leasing type.

OPTION 1

1. STATEMENT

a. It is understood by all parties to this contract that orders issued under this SIN shall constitute a lease arrangement. Unless the Ordering Agency intends to obligate other than annual appropriations to fund the lease, the base period of the lease is from the date of the product acceptance through September 30 of the fiscal year in which the order is placed.

b. Agencies are advised to follow the guidance provided in Federal Acquisition Regulation (FAR) Subpart 7.4 Product Lease or Purchase and OMB Circular A-11. Agencies are responsible for the obligation of funding consistent with all applicable legal principles when entering into any lease arrangement.

2. FUNDING AND PERIODS OF LEASING ARRANGEMENTS

a. Annual Funding: When annually appropriated funds are cited on an order for leasing, the following applies:

i. The base period of an order for any lease executed by the Government shall be for the duration of the fiscal year. All Government renewal options under the lease shall be specified in the delivery order. All orders for leasing shall remain in effect through September 30 of the fiscal year or the planned expiration date of the lease, whichever is earlier, unless the Government exercises its rights hereunder to acquire title to the product prior to the planned expiration date or unless the Government exercises its right to terminate under FAR 52.212-4. Orders under the lease shall not be deemed to obligate the succeeding fiscal year's funds or to otherwise commit the Government to a renewal.

ii. All orders for leasing shall automatically terminate on September 30, unless the Ordering Agency notifies the Contractor in writing thirty (30) calendar days prior to the expiration of such orders of the Government's intent to renew. Such notice to renew shall not bind the Government. The Government has the option to renew each year at the original rate in effect at the time the order is placed. This rate applies for the duration of the order. If the Government exercises its option to renew, the renewal order shall be issued within 15 days after funds become available for obligation by the Ordering Agency, or as specified in the initial order. No termination fees shall apply if the Government does not exercise an option.

b. Crossing Fiscal Years Within Contract Period: Where an Ordering Agency has specific authority to cross fiscal years with annual appropriations, the Ordering Agency may place an order under this option to lease the product for a period up to the expiration of its period of appropriation availability, or twelve months, whichever occurs later, notwithstanding the intervening fiscal years.

3. DISCONTINUANCE AND TERMINATION

Notwithstanding any other provision relating to this SIN, the Ordering Agency may terminate products leased under this agreement at any time during a fiscal year in accordance with the termination provisions contained in FAR 52.212-4 (1), Termination for the Government's convenience, or (m), Termination for cause. Additionally, no termination for cost or fees shall be charged for nonrenewal of an option.

OPTION 2

To the extent an Offeror wishes to propose alternative lease terms and conditions that provide for lower discounts/prices based on the ordering office's stated intent to fulfill the projected term of a lease including option years, while at the same time including separate charges for early end of the lease, the following terms apply. These terms address the timing and extent of the Government's financial obligation, including any potential charges for early end of the lease.

1. LEASING PRICE LIST NOTICE

Contractors must include the following notice in their contract price list for SIN 132-3:

"The ordering agency is responsible for the obligation of funds consistent with applicable law. Agencies are advised to review the lease terms and conditions contained in this price list prior to ordering and obligating funding for a lease."

2. STATEMENT OF GOVERNMENT INTENT

a. The Government and the Contractor understand that a delivery order issued pursuant to this SIN is a lease arrangement and contemplates the use of the product for the term of the lease specified in such delivery order (the "Lease Term"). In that regard, the Ordering Agency, as lessee, understands that the lease provisions contained herein and the rate established for the delivery order are premised on the Ordering Agency's intent to fulfill that agreement, including acquiring products for the period of time specified in the order. Each lease hereunder shall be initiated by a delivery order that shall, either through a SOW or other attachment, specify the product being leased and the required terms of the transaction.

b. Each Ordering Agency placing a delivery order under the terms of this option intends to exercise each renewal option and to extend the lease until completion of the Lease Term, so long as the need of the Ordering Agency for the product or functionally similar product continues to exist and funds are appropriated. Contractor may request information from the Ordering Agency concerning the essential use of the products.

3. LEASE TERM

a. The date on which the Ordering Agency accepts the products is the Commencement Date of the lease. For acceptance to occur, the products must operate in accordance with the product's published specifications and SOW. Acceptance shall be in accordance with the terms of the contract, or as otherwise negotiated by the Ordering Agency and the Contractor.

b. Any lease is executed by the Ordering Agency on the basis that the known requirement for such product exceeds the initial base period of the delivery order, which is typically 12 months, or for the remainder of the fiscal year. Pursuant to FAR 32.703-3 (b), delivery orders with options to renew that are funded by annual (fiscal year) appropriations may provide for initial base periods and option periods that cross fiscal years as long as the initial base period or each option period does not exceed a 12-month period. Defense agencies must also consider Department of Defense (DOD) FAR supplement (DFAR) 232.703-3(b) in determining whether to use cross fiscal year funding. This cross fiscal year authority does not apply to multiyear leases.

c. The total Lease Term will be specified in each delivery order, including any relevant renewal options of the Government. All delivery orders, whether for the initial base period or renewal period, shall remain in effect through September 30 of the fiscal year (unless extended by statute), through any earlier expiration date specified in the delivery order, or until the Government exercises its rights hereunder to acquire title to the product prior to such expiration date. The Ordering Agency, at its discretion, may exercise each option to extend the term of the lease through the lease term. Renewal delivery orders shall not be issued for less than all of the product and/or software set forth in the original delivery order. Delivery orders under this SIN shall not be deemed to obligate succeeding fiscal year funds. The Ordering Agency shall provide the Contractor with written notice of exercise of

each renewal option as soon as practicable. Notice requirements may be negotiated on an order-by-order basis.

d. Where an Ordering Agency's specific appropriation or procurement authority provides for contracting beyond the fiscal year period, the Ordering Agency may place a delivery order for a period up to the expiration of the Lease Term, or to the expiration of the period of availability of the multiyear appropriation, or whatever is appropriate under the applicable circumstance.

4. LEASE TERMINATION

a. The Ordering Agency must elect the Lease Term of the relevant delivery order. The Contractor (and assignee, if any) will rely on the Government's representation of its intent to fulfill the full Lease Term to determine the monthly lease payments calculated herein.

i. The Government may terminate or not renew leases under this option at no cost, pursuant to a Termination for Nonappropriation as defined herein (see paragraph (c) below). In any other event, the Ordering Agency's contracting officer may either terminate the relevant delivery order for cause or Termination for Convenience in accordance with FAR 52.212-4 paragraphs (1) and (m).

ii. The Termination for Convenience at the end of a fiscal year allows for separate charges for the early end of the lease (see paragraph (d) below). In the event of termination for the convenience of the Government, the Government may be liable only up to the amount beyond the order's Termination Ceiling. Any termination charges calculated under the Termination for Convenience clause must be determined or identified in the delivery order or in the lease agreement.

b. Termination for Convenience of the Government: Leases entered into under this option may not be terminated except by the Ordering Agency's contracting office responsible for the delivery order in accordance with FAR 52.212-4, Contract Terms and Conditions-Commercial Items, paragraph (1), *Termination for Convenience of the Government*. The costs charged to the Government as the result of any Termination for Convenience of the Government must be reasonable and may not exceed the sum of the fiscal year's payment obligations less payments made to date of termination plus the Termination Ceiling.

c. Termination for Nonappropriation: The Ordering Agency reasonably believes that the bona fide need will exist for the entire Lease Term and corresponding funds in an amount sufficient to make all payment for the lease Term will be available to the Ordering Agency. Therefore, it is unlikely that leases entered into under this option will terminate prior to the full Lease Term. Nevertheless, the Ordering Agency's contracting officer may terminate or not renew leases at the end of any initial base period or option period under this paragraph if (a) it no longer has a bona fide need for the product or functionally similar product or (b) there is a continuing need, but adequate funds have not been made available to the Ordering Agency in an amount sufficient to continue to make the lease payments. If this occurs, the Government will promptly notify the Contractor, and the product lease will be terminated at the end of the last fiscal year for which funds were appropriated. Substantiation to support a termination for nonappropriation shall be provided to the Contractor upon request.

d. Termination Charges: At the initiation of the lease, termination ceilings will be established for each year of the lease term. The termination ceiling is a limit on the amount that a Contractor may be paid by the Government on the Termination for Convenience of a lease. No claim will be accepted for future costs: supplies, maintenance, usage charges, or interest expense beyond the date of termination. In accordance with the bona fide needs rule, all termination charges must reasonably represent the value the Government received for the work performed based upon the shorter lease term. No Termination for Convenience costs will be associated with the expiration of the lease term.

e. At the order level, the Ordering Agency may, consistent with legal principles, negotiate lower monthly payments or rates based upon appropriate changes to the termination conditions in this section.

LEASE PROVISIONS COMMON TO ALL TYPES OF LEASE AGREEMENTS

The following terms and conditions are applicable to any lease awarded under this contract regardless of type or option.

1. ORDERING PROCEDURES

a. When an Ordering Agency expresses an interest in leasing a product(s), the Ordering Agency will provide the following information to the prospective Contractor:

i. Which product(s) is (are) required.

ii. The required delivery date.

iii. The proposed lease plan and term of the lease.

iv. Where the product will be located.

v. Description of the intended use of the product.

vi. Source and type of appropriations to be used.

b. The Contractor will respond with:

i. Whether the Contractor can provide the required product.

ii. The estimated residual value of the product (Lease with Option to Own only).

iii. The monthly payment based on the rate.

iv. The estimated cost, if any, of applicable State or local taxes. State and local personal property taxes are to be estimated as separate line items in accordance with FAR 52.229-1, which may be identified and added to the monthly lease payment.

v. A confirmation of the availability of the product on the required delivery date.

vi. Extent of warranty coverage, if any, of the leased products.

vii. The length of time the quote is valid.

viii. The proposed charges relating to the Termination Ceiling in accordance with section 4(a)(ii), above.

c. The Ordering Agency may issue a delivery order to the Contractor based on the information set forth in the Contractor's quote. In the event that the Ordering Agency does not issue a delivery order within the validity period stated in the Contractor's quote letter, the quote shall expire.

2. ASSIGNMENT OF CLAIMS

GSAR 552.232-23, Assignment of Claims, is incorporated herein by reference as part of these lease provisions. The Ordering Agency's contracting officer will acknowledge the assignment of claim for a lease in accordance with FAR 32.804-5. The extent of the assignee's protection is in accordance with FAR 32.804. Any setoff provision must be in accordance with FAR 32.803.

3. PEACEFUL POSSESSION AND UNRESTRICTED USE

In recognition of the types of products available for lease and the potential adverse impact to the Ordering Agency's mission, the Ordering Agency's quiet and peaceful possession, and unrestricted use of the product shall not be disturbed in the event the product is sold by the Contractor, or in the event of bankruptcy of the Contractor, corporate dissolution of the Contractor, or other event. The product shall remain in the possession of the Ordering Agency until the expiration of the lease. Any assignment, sale, bankruptcy, or other transfer of the leased product by the Contractor will not relieve the Contractor of its obligations to the Ordering Agency and will not change the Ordering Agency's duties or increase the burdens or risks imposed on the Ordering Agency.

4. COMMENCEMENT OF LEASE

The date on which the Ordering Agency accepts the products is the Commencement Date of the lease. Acceptance is as defined elsewhere in the contract, or as further specified in the order.

5. INSTALLATION AND MAINTENANCE

a. Installation and Maintenance, when applicable, normally are not included in the charge for leasing. The Contractor may require the Ordering Agency to obtain installation and maintenance services from a qualified source. The Ordering Agency may obtain installation and/or maintenance on the open market, from the Contractor's schedule contract, or from other sources. The Ordering Agency may also perform installation and/or maintenance in house, if qualified resources exist. In any event, it is the responsibility of the Ordering Agency to ensure that maintenance is in effect for the Lease term for all products leased.

b. When installation and/or maintenance are ordered under this schedule to be performed by the Contractor, the payments, terms, and conditions as stated in this contract apply. The rates and terms and conditions in effect at the time the order is issued shall apply during any subsequent renewal period of the lease. The maintenance rates and terms and conditions may be added to the lease payments with mutual agreement of the parties.

6. MONTHLY PAYMENTS

a. Prior to the placement of an order under this SIN, the Ordering Agency and the Contractor must agree on a "base value" for the products to be leased. For Lease to Ownership (Capital Lease) the base value will be the contract purchase price (less any discounts). For Lease with Option to Own (Operating Lease), the base value will be the contract purchase price (less any discounts), less a mutually agreed-upon residual value (prestated purchase option price at the conclusion of the lease) for the products. The residual value will be used in the calculation of the original lease payment, lease extension payments, and the purchase option price.

b. The interest rate used to calculate the monthly Lease Payment shall be calculated by adding five and one quarter percent (5.25%) to the US Treasury rate set forth in Federal Reserve Statistical release H.15 most closely corresponding to the Lease Term selected. If no corresponding term is available, the interest rate may be interpolated from the reported terms. The US Treasury rate shall be the rate on the most recent date of ordering activity prior to the date of the Contractor Acceptance as published by the Federal Reserve Bank on their internet web site: http://federalreserve.gov/releases/H15/current/.

c. For any lease extension, the extension lease payment will be based on the original residual value, in lieu of the purchase price. The Ordering Agency and the Contractor shall agree on a new residual value based on the estimated fair market price at the end of the extension. The formula to determine the lease payment will be that in 6.b. above.

d. The purchase option price will be the fair market value of the product or payment will be based upon the unamortized principle, as shown on the payment schedule, as of the last payment prior to date of transfer of ownership, whichever is less.

Note: At the order level, Ordering Agency may elect to obtain a lower rate for the lease by setting the purchase option price as either the fair market value of the product or unamortized principal. The methodology for determining lump-sum payments may be identified in the pricelist.

e. Point in time when monthly rates are established is subject to negotiation and evaluation at the order level. In the event the Ordering Agency desires, at any time, to acquire the title to a product leased hereunder, the Ordering Agency may make a one-time lump-sum payment.

7. LEASE END/DISCONTINUANCE OPTIONS

a. Upon the expiration of the Lease Term, Termination for Convenience, or Termination for Nonappropriation, the Ordering Agency will return the Product to the Contractor unless the Ordering Agency by 30 days written notice elects either:

i. To purchase the product for the residual value of the product.

ii. To extend the term of the Lease, as mutually agreed. To compute the lease payment, the residual value from the preceding lease shall be the initial value of the leased product. A new residual value shall be negotiated for the extended lease and new lease payments shall be computed.

b. Relocation: The Ordering Agency may relocate products to another location within the Ordering Agency with prior written notice. No other transfer, including sublease, is permitted. The Ordering Agency shall not assign, transfer, or otherwise dispose of any products or any interest therein, or crate or suffer any levy, lien, or encumbrance except those created for the benefit of the Contractor or its assigns.

c. Returns:

i. Within fourteen (14) days after the date of expiration, nonrenewal, or termination of a lease, the Ordering Agency shall, at its own risk and expense, have the products packed for shipment in accordance with manufacturer's specifications and return the products to the Contractor at the location specified by the Contractor in the continental US, in the same condition as when delivered, ordinary wear and tear excepted. Any expenses necessary to return the products to good working order shall be at the Ordering Agency's expense.

ii. The Contractor shall conduct a timely inspection of the returned products and, within 45 days of the return, assert a claim if the condition of the product exceeds normal wear and tear.

iii. The Product will be returned in accordance with the terms of the contract and in accordance with Contractor instruction.

iv. With respect to software, the Ordering Agency shall state in writing to the Contractor that it has:

1. Deleted or disabled all files and copies of the software from the equipment on which it was installed
2. Returned all software documentation, training manuals, and physical media on which the software was delivered
3. Has no ability to use the returned software

8. UPGRADES AND ADDITIONS

a. The Ordering Agency may affix or install any accessory, addition, upgrade, product, or device on the product ("additions"), provided that such additions:

i. Can be removed without causing material damage to the product

ii. Do not reduce the value of the product

iii. Are obtained from or approved by the Contractor, and are not subject to the interest of any third party other than the Contractor

b. Any other additions may not be installed without the Contractor's prior written consent. At the end of the lease term, the Ordering Agency shall remove any additions that:

i. Were not leased from the Contractor

ii. Are readily removable without causing material damage or impairment of the intended function, use, or value of the product, and restore the product to its original configuration

c. Any additions that are not so removable will become the Contractor's property (lien free).

d. Leases of additions and upgrades must be coterminous with that of the product.

9. RISK OF LOSS OR DAMAGE

The Ordering Agency is relieved from all risk of loss or damage to the product during periods of transportation, installation, and during the entire time the product is in possession of the Ordering Agency, except when loss or damage is due to the fault or negligence of the Ordering Agency. The Ordering Agency shall assume risk of loss or damage to the product during relocation (i.e., moving the product from one Ordering Agency location to another Ordering Agency location) unless the Contractor shall undertake such relocation.

10. TITLE

During the lease term, the product shall always remain the property of the Contractor. The Ordering Agency shall have no property right or interest in the product except as provided in this leasing agreement and shall hold the product subject and subordinate to the rights of the Contractor. Software and software licenses shall be deemed personal property. The Ordering Agency shall have no right or interest in the software and related documentation except as provided in the license and the lease. Upon the Commencement Date of the Lease Term, the Ordering Agency shall have an encumbered license to use the software for the Lease Term. The Ordering Agency's encumbered license rights in the software will be subject to the same rights as provided to a purchaser of a license under the terms of this contract except that the Ordering Agency will not have an unencumbered, paid-up license until it has made all lease payments for the full Lease Term in the case of an Lease To Ownership or has otherwise paid the applicable purchase option price.

11. TAXES

The lease payments, purchase option prices, and interest rates identified herein include all state and local taxes levied on or measured by the contract or sales price of the product furnished hereunder. The parties shall cooperate to gather and provide the required documentation to the Ordering Agency. The Ordering Agency is necessary to support an exemption from the tax.

Note: Contractor may propose additional terms and conditions (regarding SIN 132-3) for billings, payments, and/or invoices, as long as they are consistent with terms and conditions specified elsewhere. **

12. OPTION TO PURCHASE EQUIPMENT (FEBRUARY 1995) (FAR 52.207-5)

a. The Government may purchase the equipment provided on a lease or rental basis under this contract. The Contracting Officer may exercise this option only by providing a unilateral modification to the Contractor. The effective date of the purchase will be specified in the unilateral modification and may be any time during the period of the contract, including any extensions thereto.

b. Except for final payment and transfer of title to the Government, the lease or rental portion of the contract becomes complete, and lease or rental charges shall be discontinued on the day immediately preceding the effective date of purchase specified in the unilateral modification required in paragraph (a) of this clause.

c. The purchase conversion cost of the equipment shall be computed as of the effective date specified in the unilateral modification required in paragraph (a) of this clause, on the basis of the purchase price set forth in the contract, minus the total purchase option credits accumulated during the period of lease or rental, calculated by the formula contained elsewhere in this contract.

d. The accumulated purchase option credits available to determine the purchase conversion cost will also include any credits accrued during a period of lease or rental of the equipment under any previous Government contract, if the equipment has been on continuous lease or rental. The movement of equipment from one site to another site shall be "continuous rental."

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF EQUIPMENT (SIN 132-8)

1. MATERIAL AND WORKMANSHIP

All equipment furnished hereunder must satisfactorily perform the function for which it is intended.

2. ORDER

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under BPAs agreements shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.

For credit card orders and BPAs, telephone orders are permissible.

3. TRANSPORTATION OF EQUIPMENT

FOB DESTINATION. Prices cover equipment delivery to destination for any location within the geographic scope of this contract.

4. INSTALLATION AND TECHNICAL SERVICES

a. **INSTALLATION**. When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed below or in the price schedule:

   i. Installation in included in the price of the equipment.

b. I**NSTALLATION, DEINSTALLATION, AND REINSTALLATION**. The Davis-Bacon Act (40 USC. 276a-276a-7) provides that contracts in excess of $2,000 to which the US or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the US, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall receive less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration, or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act apply.

   i. The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or SIN 132-9.

c. **OPERATING AND MAINTENANCE MANUALS**. The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals that are normally provided with the equipment being purchased.

5. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Ordering Activity reserves the right to inspect or test any equipment that has been tendered for acceptance. The Ordering Activity may require repair or replacement of nonconforming equipment at no increase in contract price. The Ordering Activity must exercise its post-acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

6. WARRANTY

a. Unless specified otherwise in this contract, the Contractor's standard commercial warranty stated in the contract's commercial pricelist will apply to this contract.

i. The Contractor warrants that any Contractor-designed or Contractor-manufactured Equipment provided shall be free of defects in material and workmanship and shall conform with and perform in accordance with the specifications/requirements described herein. The term of this limited warranty shall extend for a period of one year from the date of delivery of the applicable item; provided, however, that if the Contractor is responsible for providing maintenance services, the term of such warranty shall extend for the longer of (i) one year from the date of delivery of the applicable items, or (ii) the period that the Contractor provides such maintenance services. Warranty coverage for items leased under SIN#132-3 shall extend for the full lease period.

ii. Repair, replacement, amendment, or alteration will be performed in accordance with the maintenance terms specified in this Agreement, except that if the Contractor is not responsible for providing maintenance services in accordance with the terms of the schedules attached hereto, the repair and replacement of any items shall be performed in accordance with the Contractor's standard practices, and the Ordering Activity shall be responsible for the return of Equipment to the Contractor's designated repair location, freight prepaid and packed to assure safe arrival. The Contractor shall return repaired, replaced, amended, or altered equipment, freight prepaid and packed to assure safe arrival, to the Ordering Activity's designated location in the CONUS.

iii. The limited warranties set forth in subparagraphs 1) and 2) above will not apply to any defects caused by (i) alteration, modification, or repair of such Equipment or Services other than by the Contractor or its subcontractors; (ii) improper handling, storage, operation, use, maintenance, interconnection, or installation other than by the Contractor or its subcontractors; (iii) failure to continually provide a suitable installation and operational environment as required in Equipment documentation; or (iv) any other cause beyond the range of normal usage for such Equipment or Services as specified in its documentation (except, in all of the foregoing cases, when caused by the Contractor or its subcontractors).

iv. EXCEPT AS SPECIFICALLY SET FORTH IN THIS AGREEMENT, NEITHER THE CONTRACTOR NOR OREDERING ACTIVITY MAKES NOR ASSUMES ANY LIABILITY UNDER ANY WARRANTIES (WHETHER EXPRESS, IMPLIED, OR STATUTORY) ON OR WITH RESPECT TO ANY ITEM PROVIDED HEREUNDER, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED CONDITIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

c. Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.

d. If inspection and repair of defective equipment under this warranty will be performed at the Contractor's plant, the address is as follows:

7. PURCHASE PRICE FOR ORDERED EQUIPMENT

The purchase price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.

8. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character and shall include all costs, if any, of such compliance in the prices quoted in this offer.

9. TRADE-IN OF INFORMATION TECHNOLOGY EQUIPMENT

When an ordering activity determines that Information Technology equipment will be replaced, the ordering activity shall follow the contracting policies and procedures in the FAR, the policies and procedures regarding disposition of information technology excess personal property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in the FPMR (41 CFR part 101-46).

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY USED OR REFURBISHED EQUIPMENT (SPECIAL ITEM NUMBER 132-9)

NOTE: Used or Refurbished equipment offered under SIN 132-9 must be clearly identified as being used or refurbished in GSA Pricelist pricing charts, GSA Advantage product descriptions, and in any response to a customer Request for Quote (RFQ) or request for information (RFI).

1. MATERIAL AND WORKMANSHIP

All equipment furnished hereunder must satisfactorily perform the function for which it is intended.

2. ORDER

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under blanket purchase agreements (BPA) agreements shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.
For credit card orders and BPAs, telephone orders are permissible.

3. TRANSPORTATION OF EQUIPMENT

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract.

4. INSTALLATION AND TECHNICAL SERVICES

The Hughes equipment is not self installable.

a. INSTALLATION. When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed below, or in the price schedule:

_____

_____

_____

NOTE: CONTRACTORS SHOULD PROVIDE COMMERCIAL PRACTICES FOR INSTALLATION/DEINSTALLATION/REINSTALLATION FOR REVIEW AND POSSIBLE INCLUSION IN THE CONTRACT.

b. INSTALLATION, DEINSTALLATION, REINSTALLATION. The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of $2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or SIN 132-9.

c. OPERATING AND MAINTENANCE MANUALS. The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals which are normally provided with the equipment being purchased.

5. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any equipment that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming equipment at no increase in contract price. The ordering activity must exercise its postacceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

6. WARRANTY

a. Unless specified otherwise in this contract, the Contractor's standard commercial warranty as stated in the contract's commercial pricelist will apply to this contract.

i. The Contractor warrants that any Contractor designed or Contractor manufactured Equipment provided shall be free of defects in material and workmanship, and shall conform with and perform in accordance with the specifications/requirements described herein. The term of this limited warranty shall extend for a period of one year from the date of delivery of the applicable item; provided, however, that if the Contractor is responsible for providing maintenance services, the term of such warranty shall extend for the longer of (i) one year from the date of delivery of the applicable items, or (ii) the period that the Contractor provides such maintenance services. Warranty coverage for items leased under SIN#132-3 shall extend for the full lease period.

ii. Repair, replacement, amendment, or alteration will be performed in accordance with the maintenance terms specified in this Agreement, except that if the Contractor is not responsible for providing maintenance services in accordance with the terms of the Schedules attached hereto, the repair and replacement of any items shall be performed in accordance with the Contractor's standard practices, and the Ordering Activity shall be responsible for the return of Equipment to the Contractor's designated repair location, freight prepaid and packed to assure safe arrival. The Contractor shall return repaired, replaced, amended or altered equipment, freight prepaid and packed to assure safe arrival, to the Ordering Activity's designated location in the contiguous United States.

iii. The limited warranties set forth in subparagraphs 1) and 2) above will not apply to any defects caused by (i) alteration, modification, or repair of such Equipment or Services other than by the Contractor or its subcontractors; (ii) improper handling, storage, operation, use, maintenance, interconnection, or installation other than by the Contractor or its subcontractors; (iii) failure to continually provide a suitable installation and operational environment as required in Equipment documentation; or (iv) any other cause beyond the range of normal usage for such Equipment or Services as specified in its documentation (except, in all of the foregoing cases, when caused by the Contractor or its subcontractors).

iv. EXCEPT AS SPECIFICALLY SET FORTH IN THIS AGREEMENT, NEITHER THE CONTRACTOR NOR OREDERING ACTIVITY MAKES NOR ASSUMES ANY LIABILITY UNDER ANY WARRANTIES (WHETHER EXPRESS, IMPLIED, OR STATUTORY) ON OR WITH RESPECT TO ANY ITEM PROVIDED HEREUNDER, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED CONDITIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

c. Limitation of Liability. Except as otherwise provided by an expressed warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.

---

7. PURCHASE PRICE FOR ORDERED EQUIPMENT

The purchase price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.

8. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City or otherwise) covering work of this character, and shall include all costs, if any, of such compliance in the prices quoted in this offer.

9. TRADE-IN OF INFORMATION TECHNOLOGY EQUIPMENT

When an ordering activity determines that Information Technology equipment will be replaced, the ordering activity shall follow the contracting policies and procedures in the Federal Acquisition Regulation (FAR), the policies and procedures regarding disposition of information technology excess personal property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in the FPMR (41 CFR part 101-46).

TERMS AND CONDITIONS APPLICABLE TO MAINTENANCE OF EQUIPMENT (SIN 132-12)

1. SERVICE AREAS

a. The maintenance and repair service rates listed herein are applicable to any ordering activity location within a no limit mile radius of the Contractor's service points. If any additional charge is to apply because of the greater distance from the Contractor's service locations, the mileage rate or other distance factor shall be stated in paragraphs 8.d and 9.d of this SIN 132-12.

b. When repair services cannot be performed at the ordering activity installation site, the repair services will be performed at the Contractor's plant(s) listed below:

Hughes Network Systems, LLC
11717 Exploration Lane
Germantown, MD 20876

2. MAINTENANCE ORDER

a. Agencies may use written orders, EDI orders, credit card orders, or BPAs, for ordering maintenance under this contract. The Contractor shall confirm orders within fifteen (15) calendar days from the date of receipt, except that confirmation of orders shall be considered automatic for renewals for maintenance (SIN 132-12). Automatic acceptance of order renewals for maintenance service shall apply for machines which may have been discontinued from use for temporary periods of time not longer than 120 calendar days. If the order is not confirmed by the Contractor as prescribed by this paragraph, the order shall be considered to be confirmed by the Contractor.

b. The Contractor shall honor orders for maintenance for the duration of the contract period or a lessor period of time, for the equipment shown in the pricelist. Maintenance service shall commence on a mutually agreed-upon date, which will be written into the maintenance order. Maintenance orders shall not be made effective before the expiration of any applicable maintenance and parts guarantee/warranty period associated with the purchase of equipment. Orders for maintenance service shall not extend beyond the end of the contract period.

c. Maintenance may be discontinued by the ordering activity on thirty (30) calendar days written notice, or shorter notice when agreed to by the Contractor; such notice to become effective thirty (30) calendar days from the date on the notification. However, the ordering activity may extend the original discontinuance date upon written notice to the Contractor, provided that such notice is furnished at least ten (10) calendar days prior to the original discontinuance date.

d. Annual Funding. When annually appropriated funds are cited on a maintenance order, the period of maintenance shall automatically expire on September 30 of the contract period, or at the end of the contract period, whichever occurs first. Renewal of a maintenance order citing the new appropriation shall be required if maintenance is to continue during any remainder of the contract period.

e. Cross-year Funding Within Contract Period. Where an ordering activity's specific appropriation authority provides for funds in excess of a 12-month fiscal year period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.

f. Ordering activities should notify the Contractor in writing thirty (30) calendar days prior to the expiration of maintenance service, if maintenance is to be terminated at that time. Orders for continued maintenance will be required if maintenance is to be continued during the subsequent period.

3. REPAIR SERVICE AND REPAIR PARTS/SPARE PARTS ORDERS

a. Agencies may use written orders, EDI orders, credit card orders, BPAs, or small order procedures for ordering repair service and/or repair parts/spare parts under this contract. Orders for repair service shall not extend beyond the end of the contract period.

b. When repair service is ordered, only one chargeable repairman shall be dispatched to perform repair service unless the ordering activity agrees, in advance, that additional repair personnel are required to effect repairs.

4. LOSS OR DAMAGE

When the Contractor removes equipment to his establishment for repairs, the Contractor shall be responsible for any damage or loss from the time the equipment is removed from the ordering activity installation until the equipment is returned to such installation.

5. SCOPE

a. The Contractor shall provide maintenance for all equipment listed herein, as requested by the ordering activity during the contract term. Repair service and repair parts/spare parts shall apply exclusively to the equipment types/models within the scope of this Information Technology Schedule.

b. Equipment placed under maintenance service shall be in good operating condition.

i. In order to determine that the equipment is in good operating condition, the equipment shall be subject to inspection by the Contractor, without charge to the ordering activity.

ii. Costs of any repairs performed for the purpose of placing the equipment in good operating condition shall be borne by the Contractor, if the equipment was under the Contractor's guarantee/warranty or maintenance responsibility prior to the effective date of the maintenance order.

iii. If the equipment was not under the Contractor's responsibility, the costs necessary to place the equipment in proper operating condition are to be borne by the ordering activity, in accordance with the provisions of SIN 132-12 (or outside the scope of this contract).

6. RESPONSIBILITIES OF THE ORDERING ACTIVITY

a. Ordering activity personnel shall not perform maintenance or attempt repairs to equipment while such equipment is under the purview of a maintenance order, unless agreed to by the Contractor.

b. Subject to security regulations, the ordering activity shall permit access to the equipment that is to be maintained or repaired.

7. RESPONSIBILITIES OF THE CONTRACTOR

For equipment not covered by a maintenance contract or warranty, the Contractor's repair service personnel shall complete repairs as soon as possible after notification by the ordering activity that service is required. Within the service areas, this repair service should normally be done within 4 hours after notification.

8. MAINTENANCE RATE PROVISIONS

a. The Contractor shall bear all costs of maintenance, including labor, parts, and such other expenses, as are necessary to keep the equipment in good operating condition, provided that the required repairs are not occasioned by fault or negligence of the ordering activity.

b. **REGULAR HOURS**: The basic monthly rate for each make and model of equipment shall entitle the ordering activity to maintenance service during a mutually agreed-upon nine (9) hour principal period of maintenance, Monday through Friday, exclusive of holidays observed at the ordering activity location.

c. **AFTER HOURS**: Should the ordering activity require that maintenance be performed outside of Regular Hours, charges for such maintenance, if any, will be specified in the pricelist. Periods of less than one hour will be prorated to the nearest quarter hour.

d. **TRAVEL AND TRANSPORTATION**: If any charge is to apply over and above the regular maintenance rates, because of the distance between the ordering activity location and the Contractor's service area, the charge will be incurred in accordance with the Federal Government Travel Regulations in effect at the time.

9. REPAIR SERVICE RATE PROVISIONS

CHARGES: Charges for repair service will include the labor charge, computed at the rates set forth below, for the time during which repairmen are actually engaged in work, and, when applicable, the charge for travel or transportation.

a. **LABOR RATES**

b. **REGULAR HOURS:** The Regular Hours repair service rates listed herein shall entitle the ordering activity to repair service during the period 8 a.m. to 5 p.m., Monday through Friday, exclusive of holidays observed at the ordering activity location. There shall be no additional charge for repair service that was requested during Regular Hours but performed outside the Regular Hours defined above, at the convenience of the Contractor.

c. **AFTER HOURS:** When the ordering activity requires that repair service be performed outside the Regular Hours defined above, except Sundays and Holidays observed at the ordering activity location, the After Hours repair service rates listed herein shall apply. The Regular Hours rates defined above shall apply when repair service is requested during Regular Hours but performed After Hours at the convenience of the Contractor.

d. **SUNDAYS AND HOLIDAYS:** When the ordering activity requires that repair service be performed on Sundays and Holidays observed at the ordering activity location, the Sundays and Holidays repair service rates listed herein shall apply. When repair service is requested to be performed during Regular Hours and/or After Hours, but is performed at the convenience of the Contractor on Sundays or Holidays observed at the ordering activity location, the Regular Hours and/or After Hours repair service rates, as applicable, shall apply.

Table 1. Repair Service Rates

Regular Hours per Hour	After Hours per Hour
$124.18	$149.87

10. INVOICES AND PAYMENTS

a. Maintenance Service

i. Invoices for maintenance service shall be submitted by the Contractor on a quarterly or monthly basis, after the completion of such period. Maintenance charges must be paid in arrears (31 USC. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

ii. Payment for maintenance service of less than one month's duration shall be prorated at 1/30th of the monthly rate for each calendar day.

b. Repair Service and Repair Parts/Spare Parts

Invoices for repair service and parts shall be submitted by the Contractor as soon as possible after completion of work. Payment under blanket purchase agreements will be made quarterly or monthly, except where cash payment procedures are used. Invoices shall be submitted separately to each ordering activity office ordering services under the contract. The cost of repair parts shall be shown as a separate item on the invoice and shall be priced in accordance with paragraph #10, above. PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

TERMS AND CONDITIONS APPLICABLE TO TRAINING COURSES (SIN 132-50)

1. SCOPE

a. The Contractor shall provide training courses normally available to commercial customers, which will permit ordering activity users to make full, efficient use of general purpose commercial IT products. Training is restricted to training courses for those products within the scope of this solicitation.

b. The Contractor shall provide training at the Contractor's facility or at the ordering activity's location or hosted online through the Hughes Portal, as agreed to by the Contractor and the ordering activity.

2. ORDER

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under BPAs shall be the basis for the purchase of training courses in accordance with the terms of this contract. Orders shall include the student's name, course title, course date and time, and contracted dollar amount of the course.

3. TIME OF DELIVERY

The Contractor shall conduct training on the date (time, day, month, and year) agreed to by the Contractor and the ordering activity.

4. CANCELLATION AND RESCHEDULING

a. The ordering activity will notify the Contractor at least seventy-two (72) hours before the scheduled training date if a student will be unable to attend. The Contractor will then permit the ordering activity to either cancel the order or reschedule the training at no additional charge. In the event the training class is rescheduled, the ordering activity will modify its original training order to specify the time and date of the rescheduled training class.

b. In the event the ordering activity fails to cancel or reschedule a training course within the time frame specified in paragraph a, above, the ordering activity will be liable for the contracted dollar amount of the training course. The Contractor agrees to permit the ordering activity to reschedule a student who fails to attend a training class within ninety (90) days from the original course date at no additional charge.

c. The ordering activity reserves the right to substitute one student for another up to the first day of class.

d. In the event the Contractor is unable to conduct training on the date agreed to by the Contractor and the ordering activity, the Contractor must notify the ordering activity at least seventy-two (72) hours before the scheduled training date.

5. FOLLOW-UP SUPPORT

The Contractor agrees to provide each student with online support for a period of thirty (30) days from the completion of the training course.

6. PRICE FOR TRAINING

The price that the ordering activity will be charged will be the ordering activity training price in effect at the time of order placement, or the ordering activity price in effect at the time the training course is conducted, whichever is less.

7. INVOICES AND PAYMENT

Invoices for training shall be submitted by the Contractor after ordering activity completion of the training course. Charges for training must be paid in arrears (31 USC. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

8. FORMAT AND CONTENT OF TRAINING

a. The Contractor shall provide all training material for electronic download by the students.

b. For those courses conducted at the ordering activity's location, instructor travel charges (if applicable), including mileage and daily living expenses (e.g., per diem charges), are governed by Pub. L. 99-234 and FAR Part 31.205-46 and are reimbursable by the Ordering Activity on orders placed under the Multiple Award Schedule, as applicable, in effect on the date(s) the travel is performed. Contractors

cannot use GSA city pair contracts. The Industrial Funding Fee does NOT apply to travel and per diem charges.

c. For Online Training Courses, a copy of all training material must be available for electronic download by the students.

9. "NO CHARGE" TRAINING

The Contractor shall describe any training provided with equipment and/or software provided under this contract, free of charge, in the space provided below.

There is "NO CHARGE" TRAINING provided.

Terms and Conditions Applicable to Information Technology (IT) Professional Services (SIN 132-51)

*******Note: All nonprofessional labor categories must be incidental to and used solely to support professional services, and cannot be purchased separately.***

1. SCOPE

a. The prices, terms, and conditions stated under SIN 132-51 Information Technology Professional Services apply exclusively to IT/IAM Professional Services within the scope of this Information Technology Schedule.

b. The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES I-FSS-60 PERFORMANCE INCENTIVES (APRIL 2000)

a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or BPAs under this contract.

b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or BPAs.

c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. ORDER

a. Agencies may use written orders, EDI orders, BPAs, individual purchase orders, or task orders for ordering services under this contract. BPAs shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. PERFORMANCE OF SERVICES

a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.

b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.

c. The ordering activity should include the criteria for satisfactory completion for each task in the SOW or Delivery Order. Services shall be completed in a good and workmanlike manner.

d. Any Contractor travel required in the performance of IT/IAM Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. STOP-WORK ORDER (FAR 52.242-15) (AUGUST 1989)

a. The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either:

i. Cancel the stop-work order.

ii. Terminate the work covered by the order as provided in the Default clause, or the Termination for Convenience of the Government clause of this contract.

b. If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly.

i. The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract.

ii. The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

c. If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

d. If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

6. INSPECTION OF SERVICES

In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS –COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Dec 2007) Rights in Data - General, may apply.

8. RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT/IAM Professional Services.

9. INDEPENDENT CONTRACTOR

All IT/IAM Professional services performed by the Contractor under the terms of this contract shall be as an independent Contractor and not as an agent or employee of the ordering activity.

10. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries, and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations that may require restrictions are provided at FAR 9.508.

11. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/IAM Professional services. Progress payments may be authorized by the ordering activity on individual orders, if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. PAYMENTS

For firm-fixed price orders, the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for services rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

a. The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.

b. The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by:

   i. The offeror

   ii. Subcontractors

   iii. Divisions, subsidiaries, or affiliates of the offeror under a common control

13. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

14. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

15. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

16. DESCRIPTION OF IT/IAM PROFESSIONAL SERVICES AND PRICING

Refer to Labor Category Descriptions.

TERMS AND CONDITIONS APPLICABLE TO ELECTRONIC COMMERCE (EC) SERVICES (SIN 132-52)

1. SCOPE

a. The prices, terms, and conditions stated under SIN 132-52 Electronic Commerce Services apply exclusively to EC services within the scope of this Information Technology Schedule.

b. The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES

a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or BPAs under this contract in accordance with this clause.

b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or BPAs.

c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. ORDER

a. Agencies may use written orders, EDI orders, BPAs, individual purchase orders, or task orders for ordering services under this contract. BPAs shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks that extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. PERFORMANCE OF SERVICES

a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.

b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.

c. The ordering activity should include the criteria for satisfactory completion for each task in the SOW or Delivery Order. Services shall be completed in a good and workmanlike manner.

d. Any Contractor travel required in the performance of EC services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. STOP-WORK ORDER (FAR 52.242-15) (AUGUST 1989)

a. The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either:

   i. Cancel the stop-work order

ii. Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government clause of this contract

b. If a stop-work order issued under this clause is canceled, or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if:

i. The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract

ii. The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

c. If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

d. If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

6. INSPECTION OF SERVICES

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Deviation – May 2003) Rights in Data – General, may apply.

8. RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit the Contractor access to all facilities necessary to perform the requisite EC services.

9. INDEPENDENT CONTRACTOR

All EC services performed by the Contractor under the terms of this contract shall be as an independent Contractor and not as an agent or employee of the ordering activity.

10. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief

executives, directors, subsidiaries, and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations that may require restrictions are provided at FAR 9.508.

11. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/EC services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. PAYMENTS

For firm-fixed price orders, the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003)) applies to labor-hour orders placed under this contract.

13. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

14. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

15. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

16. HUGHES UNIFIED BROADBAND DESCRIPTION AND PRICE TABLE GUIDELINES

Users wishing only to have access to the public Internet need to choose the appropriately sized DW7700 terminal and one of the "Internet Access" service plans. These services operate via a shared IP Gateway with access to the public Internet. The "Internet Access" service plans include Hughes-provided Tier 1/Tier 2, and Tier 3 customer services. Remote Maintenance services, Hughes VPN acceleration (DVA) service and Package Delivery services can be selected as options for these types of users.

Users choosing services under the Managed Services service plans are required to include the following in their orders:

- An appropriately sized indoor modem (HN7700, HN7000, HN9500, or HN9000) terminal with appropriately sized antenna, mount, or DSL router
- A Managed Services service plan per site
- Private IP Gateway
- Vision access
- A customer-provided backhaul or a VPN backhaul from the schedule
- Remote Maintenance Plan

Users of Managed Services are required to provide Tier 1/Tier 2 support services, and Hughes will provide Tier 3 support services. Hughes can provide Tier 1/Tier 2 support as an option. Hughes VPN Acceleration (DVA) service, VPN automatic dial backup (VADB), Package Delivery services, and Dialup services can be selected as options for these types of users. Dialup Internet Access service plans are only available to customers who purchase Managed Services solutions.

If the government purchaser has any question regarding the appropriate configuration and/or selection of options, please contact the Hughes' Government Sales team via GSA.

TERMS AND CONDITIONS APPLICABLE TO TRANSPONDED CAPACITY (SIN 132-54) AND SUBSCRIPTION SERVICES (SIN 132-55)

1. COMSATCOM CAPACITY AND COVERAGE

The Ordering Activity shall specify the capacity and coverage required as part of the initial requirement. Please refer to Section B.2.3.6.

2. INFORMATION ASSURANCE

a. The Ordering Activity is responsible for ensuring to the maximum extent practicable that each requirement issued is in compliance with either the Committee on National Security Systems Policy (CNSSP) 12, "National Information Assurance Policy for Space Systems used to Support National Security Missions," or the Department of Defense Directive (DoDD) 8581.1, "Information Assurance (IA) Policy for Space Systems Used by the Department of Defense."

b. The Ordering Activity shall assign an impact level (per Federal Information Processing Standards Publication 200 (FIPS 200), "Minimum Security Requirements for Federal Information and Information Systems") or MAC level (per DoD Instruction (DoDI) 8500.2, "Information Assurance Implementation) prior to issuing the initial SOW. Evaluations shall consider the extent to which each proposed service accommodates the necessary security controls based upon the assigned impact level or MAC, command encryption/authentication, and other requirements in CNSSP 12 or DODD 8581.1. The Contractor-awarded SIN 132-54 and/or 132-55 is capable of meeting at least the minimum security requirements assigned against a low-impact information system (per FIPS 200) or mission assurance category (MAC) III system (per DoDI 8500.2). (Checklist under separate attachment). The specific impact level will be negotiated between the ordering activity and the contractor prior to Task Order award.

c. The Ordering Activity reserves the right to independently evaluate, audit, and verify the IA compliance for any proposed or awarded COMSATCOM services. All IA certification, accreditation, and evaluation activities are the responsibility of the ordering activity.

3. DELIVERY SCHEDULE

The Ordering Activity shall specify the delivery schedule as part of the initial requirement.

132-54 Transponded Capacity ..... 15 Days (Standard)

132- 55 Subscription Services Internet

- Customer contacted within 2 days of delivery. Standard installs will be completed between 15-21 days.
- Expedited CONUS installation will be completed <15 days. Expedite CLIN needs to be ordered at ARO.

4. PORTABILITY

When an Ordering Activity requires portability, this requirement shall be included as part of the initial requirement. When portability is exercised, evidence of equivalent net present value (NPV)[1] shall be provided by the contractor. Ordering Activities may propose additional terms and conditions within the requirement (e.g., specific predefined, guaranteed terms and conditions for portability and related services). However, if the supplemental terms and conditions contradict the contract, the contract takes precedence. Portability provides the Ordering Activity the ability to relocate, or "port" COMSATCOM Services resources as user requirements change. Descriptions of portability may include moving from one transponder/satellite to another, one managed service area to another, transponded capacity redeployment between beams or transponders on a single satellite, redeployment from one frequency band to another, physical relocation of a satellite to a new orbital position, rerouting of teleport services from one teleport to another predefined teleport, rerouting of traffic from one terrestrial infrastructure to another predefined infrastructure, and movement of network operations center (NOC) services from one NOC to another NOC. The specific portability requirement will be negotiated between the ordering activity and the contractor prior to Task Order award.

[1] For example, 1 year of service for a transponder valued at $1M/year is traded for 6 months of service on a transponder valued at $2M/year.

5. FLEXIBILITY/OPTIMIZATION

When an Ordering Activity requires regrooming resources for spectral, operational, or price efficiencies, this requirement shall be included as part of the initial requirement. When flexibility/optimization is exercised, evidence of equivalent NPV[2] shall be provided by the contractor. Ordering Activities may propose additional terms and conditions within the requirement (e.g., specific predefined, guaranteed terms and conditions for regrooming). However, if the supplemental terms and conditions contradict the contract, the contract takes precedence. Flexibility/optimization/regrooming allows the Contractor to redistribute resources currently used to provide COMSATCOM services (e.g., space segment, network, teleport, terminal resources) or customers sharing the COMSATCOM services resources (e.g., Customer 1 with typical peak usage at 9 a.m. and Customer 2 with typical peak usage at 3:30 p.m.), enabling the Ordering Activity to gain spectral, operational, and/or price efficiencies. The specific Flexibility/Optimization requirement will be negotiated between the ordering activity and the contractor prior to Task Order award.

6. NET READY (INTEROPERABILITY)

When an Ordering Activity requires interoperability, this requirement shall be included as part of the initial requirement. Interfaces may be identified as interoperable on the basis of participation in a sponsored program acceptable to the Ordering Activity. Any such access or interoperability with teleports/gateways and provisioning of enterprise service access will be defined in the individual requirement. The specific NET Ready (Interoperability) requirement will be negotiated between the ordering activity and the contractor prior to Task Order award.

7. NETWORK MONITORING (NET OPS)

The Ordering Activity shall specify the network monitoring (Net Ops) collection and delivery requirements (e.g., format, frequency) as part of the initial SOW. The Contractor-awarded SIN 132-54 and/or 132-55 is capable of collecting and delivering the near real-time monitoring, fault/incident/outage reporting, and information access required to ensure effective and efficient operations, performance, and availability consistent with commercial best practices. Ordering Activities may propose additional terms and conditions within the requirement (e.g., specific predefined terms and conditions for Net Ops collection and delivery.) However, if the supplemental terms and conditions contradict the contract, the contract takes precedence (refer to Section B.2.3.5 and B.3 for Hughes standard Network Operations). If the standard network monitoring procedures (collection and data delivery) are required, the specific network monitoring requirement will be negotiated between the ordering activity and the contractor prior to Task Order award.

8. EMI/RFI IDENTIFICATION, CHARACTERIZATION, AND GEOLOCATION

When an Ordering Activity requires electromagnetic interference (EMI)/radio frequency interference (RFI) identification, characterization, and geolocation, it shall be included as part of the initial requirement. The Ordering Activity shall establish and use with the Contractor a mutually agreed-upon media and voice communications capability capable of protecting "Sensitive, but Unclassified" data (refer to Section B.2.3.6). If the EMI/RFI detection procedures fall outside of the standard satellite carrier procedures, the specific network monitoring requirement will be negotiated between the ordering activity and the contractor prior to Task Order award.

9. SECURITY

The Ordering Activity is responsible for assigning the personnel and facility clearance levels for each requirement. If required, the Ordering Activity is responsible for issuing the appropriate security forms (e.g., a DD-254) for any special clearance requirements and indoctrinations, such as sensitive compartmented information (SCI). Ordering Activities shall ensure the Contractor "masks" or "protects" Ordering Activity customers against unauthorized release of identifying information to any entity that could compromise the customer's operations security. Identifying information includes, but is not limited to, personal user and/or unit information, including tail numbers, unit names, unit numbers, individual names, individual contact numbers, and street addresses (refer to Section B.4). Specific security requirements will be negotiated between the ordering activity and the Contractor prior to Task Order award.

10. THIRD-PARTY BILLING FOR COMSATCOM SUBSCRIPTION SERVICES

The Ordering Activity shall make every effort to educate the terminal owners or operators on usage of the approved network infrastructure to avoid third-party charges.

---

[2] For example, 1 year of service on a less efficient arrangement of contractor resources is traded for 9 months of service on a more efficient arrangement of contractor resources that provides an operational efficiency to the Ordering Activity's customers.

11. ADDITIONAL TERMS AND CONDITIONS

a. The Ordering Activity is responsible for determining the number of approaches each Contractor may offer in response to a SOW.

b. If guidance is required, Ordering Activities may contact the GSA Satellite Communications Services Program Management Office, satserv@gsa.gov.

c. For each Subscription Service requirement, the Ordering Activity shall negotiate with the Contractor any required CIR. CIR is the average dedicated bandwidth data transfer rate (e.g., Mbps) for an individual COMSATCOM Subscription services network that the Contractor commits to delivering over a period of time. The Contractor may exceed the CIR if the network has capacity at any time.

12. CONTRACT CLAUSES

Ordering activities will be able to view the complete list of IT Schedule 70 contract clauses, including the specific contract terms and conditions for any specific contract holder, at:

http://www.gsaelibrary.gsa.gov/ElibMain/contractsOnline.do?scheduleNumber=70

13. HOST NATION AGREEMENT PRICING, PERMITS, FEES, AND LICENSES

All prices are "not-to-exceed" prices. The price to the Government for worldwide HNA services for a specific order will be quoted on a case-by-case basis due to the widely varying nature of the effort required in each country and the applicable licensing and authorization requirements in each country. HNA CLINs apply to all applicable frequency bands in each region. All necessary landing rights and frequency clearances are included in the CLIN pricing. Please note that not all countries per region are listed. Prices are exclusive of telecommunications taxes and other similar duties.

ANNUAL RECURRING CHARGES include recurring licensing and administrative fees, including telecommunications and RF licenses paid to applicable telecommunications regulatory agencies. This pricing is **annual** and includes the complete network operations (commercial and/or operational licenses and access to spectrum or radiofrequencies associated with an earth station). All foreign satellite operator, annual spectrum access, and annual frequency permits are included in this pricing.

NONRECURRING CHARGES (NRCs) include one-time charges associated with obtaining and implementing licenses prior to operations. The NRC in this column include charges, fees, and expenses to be paid or incurred by Hughes during the first year of operations in connection with preparing, filing, obtaining, and implementing the applicable licenses in each country directly from governmental regulators, complying with the licensing procedures, and coordinating and following up with local authorities on applicable licensing requirements, and reimbursing charges assessed or payments made by local Service Providers as necessary for local Service Providers to obtain approval to amend their current licenses to cover services provided to the Government or to obtain the appropriate licenses. It may also include reimbursement of fees and expenses to external advisers and consultants, where required, for filing the license (e.g., Greece, Spain). NRC applies only to year one, before commencement of operations. It also includes potential payments to certain State Monopoly authorities to obtain a waiver to their exclusive right to use spectrum from foreign satellites (e.g., Djibouti, Kazakhstan, and Rwanda).

HUGHES SYSTEM OVERVIEW

A INTRODUCTION

Hughes provides a comprehensive portfolio of fully managed broadband solutions that bring together the best of terrestrial and satellite technologies. Hughes' broadband solutions are designed to meet the needs of multisite enterprise networks and are tailored to government agencies of all sizes. These managed network solutions provides many benefits, including:

- Flexibility to choose the right broadband solution and platform for each agency
- A path-diverse solution that serves as an insurance policy for continuity of operations (COOP)
- Optimal network connectivity to all of the agency's sites, regardless of location
- One network service management interface
- Single point-of-contact (POC) for all networking needs and assistance, when needed

Furthermore, in order to meet the General Services Administration's (GSA's) requirements, Hughes has also added a number of dial-up networking solutions to the portfolio of service offering.

A.1 End-to-End Managed Services

Backed by enterprise-grade SLAs, Hughes' end-to-end managed services deliver top performance, reliability, and assured security.

- A tailored architecture designed for agency security and IT requirements
- Access to a national managed broadband network
- A multitransport broadband network - DSL, cable, 3G, and satellite
- Data, voice, and video capabilities
- The highest wide area network (WAN) performance possible

A.2 National Managed Broadband Service

Beyond solutions for individual agencies, Hughes has the unique capability to create a powerful nationwide solution for multiple cooperating agencies. Such a National Managed Broadband Service combines Hughes' nationwide satellite services with the most cost-effective mix of terrestrial broadband technologies, resulting in a uniformly high-quality, ubiquitous offering.

In particular, Hughes National Managed Broadband Service solves the problem of expensive dedicated access to multiprotocol label switching (MPLS) networks. Agencies can maintain their existing MPLS networks but replace expensive, dedicated T1 access with a tailored, cost-effective mix of broadband technologies from Hughes. Hughes' National Managed Broadband Service provides end-to-end managed services with data, voice, and video capabilities, and comes with professional design, installation, and full operations, backed by dependable, 24/7 customer care, troubleshooting, and technical support.

A.3 Hughes' Portfolio of Managed Services

- **Continuity of Operations Solutions** deliver high network reliability, availability, and 24/7 support, ensuring that agencies stay operational even when terrestrial networks fail.

- **High Availability VPN** combines landline and wireless broadband technologies at each field office to create a premium, integrated network with two physically diverse transmission paths.

- **Optimized VPN** delivers a fully managed service that creates a seamless government network by utilizing the most efficient and cost-effective broadband technology available at each field office.

- **Access Continuity** is ideal for the agency that needs a managed service to deliver cost-effective backup connectivity for all or selected locations. Access Continuity offers a diverse-path, secure backup system via satellite to keep the agency running even if the primary broadband connection goes down.

- **Remote Internet Access** delivers high-quality, secure, single-provider connectivity across all sites**.**

- **Digital Messaging** provides an easy, convenient vehicle for government agencies to deliver targeted messaging to constituents and employees.

- **Field Office Server** is a turnkey, enterprise-grade platform that collapses multiple servers into one, enabling agencies to easily host multiple critical applications on a single managed platform.
- **Hughes Voice over IP (VoIP)** delivers high-quality, business-grade voice over affordable DSL, cable, and satellite broadband.
- **Telework Solutions** provide a single, uniform answer to the challenge of connecting remote employees nationwide with secure, high-speed access to agency Intranets and to the Internet.
- **Distance Learning Solutions** utilize broadband satellite technology to deliver interactive, digital video, and audio distance learning programs to virtual classrooms.
- **Emergency Communications Solutions** get mission-critical applications up and running when disaster strikes and terrestrial networks fail.
- **Inter-Government Crisis Network (IGCN)** provides instant networking among multiple agencies and decision-makers, enabling a true "Plan B" national emergency communications plan.

Hughes' Managed Network Solutions are offered through two fundamental network access technologies: satellite (i.e., the traditional Hughes service) and terrestrial (i.e., dial-up, DSL, T1, Fractional T1, etc.). The remainder of this document describes the solutions offered through these two network access technologies.

B SATELLITE-BASED NETWORK ACCESS SOLUTIONS

B.1 Introduction

Hughes delivers the most advanced satellite technology available today to meet government requirements for a robust, reliable, and secure broadband network infrastructure that is capable of providing high-performance, end-to-end services. Hughes' systems are star topology-based WAN solutions composed of four elements. First is a centralized hub called the NOC. Second are the remote VSAT devices that allow remote client hosts to communicate with the server hosts at the agency's data center. The third component is the geosynchronous satellite itself. The final component is a terrestrial backhaul interconnecting the agency data center to the Hughes NOC. The backhaul can be dedicated or use shared infrastructure, such as the Internet or VPN tunnels through the Internet.

Figure 1 shows the simple architecture and end-to-end connectivity of a Hughes satellite-based network. A single NOC supports all sites within the US and Puerto Rico.

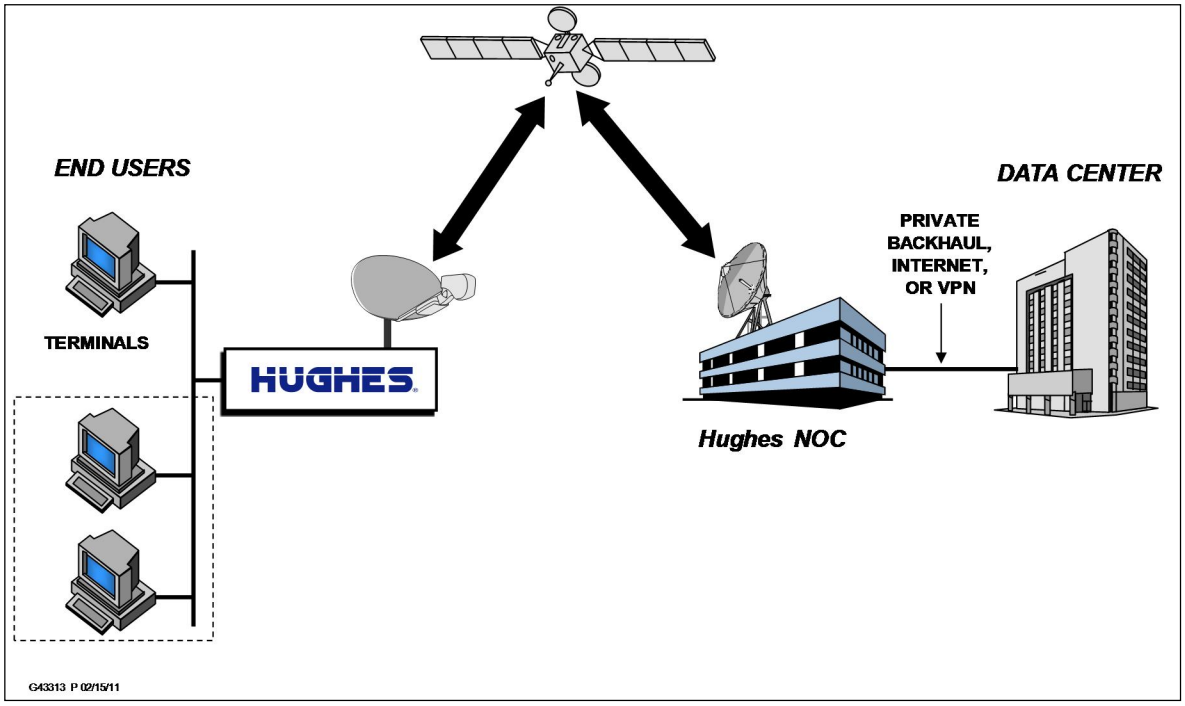


Figure 1. Satellite-based Network Overview

B.2 Hughes Network Elements

Hughes' systems are composed of four basic elements, as illustrated in **Figure 2**:

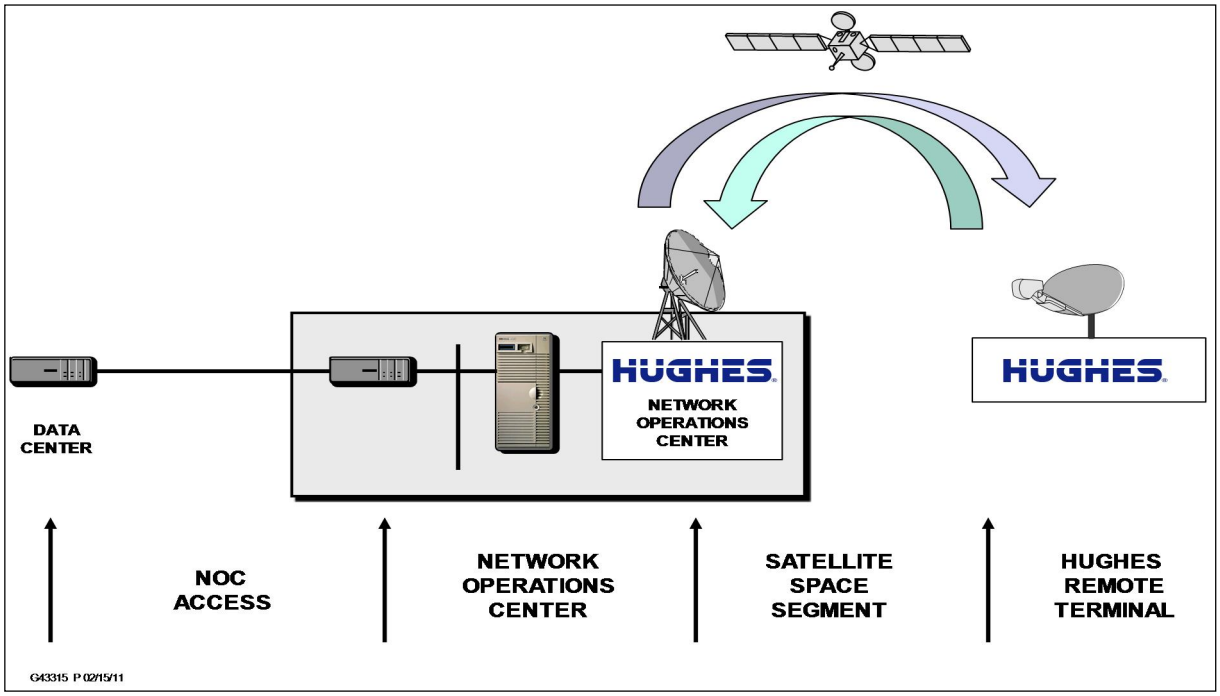


Figure 2. Hughes Network Elements

- **NOC Access** – Connectivity between the customer data center or headquarters and the Hughes NOC includes as options a private line (i.e., T1 circuit, frame relay, etc.), open Internet, or a Hughes-provided Managed VPN tunnel through the Internet.
- **Hughes NOC** – A Germantown, Maryland-based teleport facility and a Las Vegas, Nevada-based facility providing connectivity to all locations within the US, Puerto Rico, and Canada.
- **Hughes Satellite Space Segment** – Provides the central network relay point. All communications between the NOC and Hughes terminals are transmitted via the satellite.
- **Hughes Terminals** – The customer premises equipment (i.e., satellite terminals) installed at end-user locations.

B.2.1 Hughes NOC Architecture

The Hughes NOC architecture consists of the following components:

- **Radio Frequency Terminal (RFT)** – The RFT is responsible for taking the intermediate frequency (IF) output of the System IF Distribution module, upconverting it to RF and transmitting it to the satellite. The RFT is also responsible for receiving the RF echo of the transmitted signal from the satellite, along with the RF input for the return channels, downconverting the signals to IF and forwarding the downconverted signals to the System IF Distribution module.
- **System IF Distribution** – The System IF Distribution module is responsible for accepting the IF output of the Hughes outroute modulators and forwarding it to the RFT and the Timing Support Equipment. The System IF Distribution is also responsible for accepting the IF output of the RFT and distributing it to the Timing Support Equipment and the Return Channel IF Distribution modules.
- **Hughes Outroute Redundancy** – The Hughes outroute supports a configuration that allows critical traffic components to fail without causing a system outage. This is supported on the IF data following the modulator. If equipment on one transmit chain fails, the lack of data is detected and a switch automatically occurs to the other transmit chain. This supports one-for-one redundancy of the satellite gateway and modulators.

- **Satellite Gateway** – The Satellite Gateway is responsible for multiplexing all traffic to be transmitted on the Hughes uplink. This includes user traffic forwarded from standard Hughes gateways supporting TCP and IP Multicast. It also includes traffic forwarded from the return channel components including the Hughes National Control Center. This component is a standard server-class PC running Windows. These operate at 1-for-1 redundancy.
- **IP Gateway (IPGW)** – The IPGW manages two-way TCP traffic between the remote terminals and the IP hosts. It provides the Hughes uplink traffic, handles flow control to respond to satellite channel overload, and also acts as a proxy for return-channel traffic.
- **Advanced Encryption Standard (AES) Gateway** – Dedicated AES Gateway in the Hughes NOC to provide AES encryption for private networks.
- **Conditional Access Controller (CAC)** – This component contains the key material for all Hughes return-channel transceivers. All Hughes uplink traffic is encrypted using keys from this controller. Multicast traffic is encrypted with a generated key. This component ensures that the key material is provided to the Hughes terminals that are authorized to receive any broadcasts. In addition, it provides the individual Hughes terminal keys to the Hughes gateways. The CAC operates on a server-class PC running the standard Hughes CAC application under the Windows NT operating system.
- **Return-Channel Demodulators (RCDs)** – The RCDs provide the demodulation capability for the return channels. These operate at 1-for-n redundancy.
- **Return-Channel IF Distribution** – The return-channel IF Distribution module is responsible for accepting the IF output of the System IF Distribution module and forwarding it to the burst-control demodulators (BCDs).

B.2.2 Hughes DVB-S2 Outbound Space Segment

The DVB-S2-compliant Hughes outroute stream supports multiple multiprotocol encapsulation messages in a single MPEG frame. The transport stream includes fixed-size, 204-byte MPEG packets, which contain 188 bytes of MPEG data and 16 bytes of FEC data. The DVB-S2-compliant transport stream is modulated with quadrature phase shift keying (QPSK). Forward error correction (FEC) rates supported include 7/8, 5/6, 3/4, 2/3, and 1/2.

B.2.3 Hughes Inbound Space Segment

The Hughes architecture uses 128, 256, 512, or 1024 kbps TDMA inroutes as the return channel. All inroutes support rates of 1/2, 2/3, or 4/5 FEC encoding and QPSK modulation. This equates to inroute speeds of roughly 256, 400, and 800 kbps or higher.

Hughes' solutions include an inroute access method called Enhanced Transaction Reservation that allocates bandwidth dynamically and efficiently, and load balances automatically across the pool of inroute channels. This real-time automatic bandwidth management distinguishes the Hughes satellite solution over that of other satellite service providers.

B.2.4 Hughes Remote Satellite Terminal

B.2.4.1 Fixed VSAT

The Hughes VSAT system is a low-cost, powerful, and reliable platform providing satellite broadband access. It consists of an indoor unit (IDU), an outdoor unit (ODU), and an antenna assembly.

The Hughes satellite system is designed to provide users with an easy networking solution to connect multiple IP-based computers to broadband access via satellite. Four models are available: HN7000, HN7700, HN9000, and HN9500. All are self-hosted, stand-alone units that provide an integrated broadband LAN solution to Windows, UNIX, Linux, MAC, and other platforms running IP over Ethernet.

The HN7000 is self-contained with a single RJ-45 Ethernet interface. The HN7700 provides two Ethernet ports, an integrated serial interface, and a built-in dial modem RJ-11 interface to provide dial backup functionality. The HN7700 performs many of the same functions as a typical router, such as IP routing, DHCP addressing, Network Address Translation, and firewall functions. The HN7700 terminal can receive a throughput of 2 Mbps per TCP session with an aggregate throughput of 6 Mbps.

HN9x00 terminals operate in Ka-band and provide access to the Hughes SPACEWAY® 3 system. The HN9000 is self-contained and provides a single RJ-45 Ethernet interface. It supports up to 300 kbps on the upstream and up to

5 Mbps on the downstream. The HN9500 provides a single RJ-45 Ethernet interface, and supports up to 2 Mbps on the upstream and up to 8 Mbps on the downstream. It supports four classes of service (COS), which are available on the SPACEWAY 3 system, including real-time quality of service (QoS) features to ensure that applications get the priority and bandwidth they require. Operating as an IP router on an enterprise LAN, the HN9500 incorporates many functionalities, such as IP routing DHCP addressing, Network Address Translation, and end-end encryption. The HN9x00 terminals also incorporate several advanced features that increase throughput performance and maximize the user's experience and satisfaction. Performance enhancing proxy (PEP) mitigates delay and increases overall throughput over satellite channels, while the novel Hughes TurboPage® feature provides HTTP acceleration for fast browser performance.

Antenna sizes range from .98 m to 1.8 m. Hughes provides antenna sizing services to determine the appropriate reflector size based on site location information and a target average availability of 99.7%.

B.2.4.2 Mobile VSAT

The Hughes mobile satellite system is designed to provide users with the same easy networking solution as the fixed VSAT described above in a mobile environment where the satellite terminal is installed either on a vehicle or in a fly-away kit. In either case, the terminal utilizes a fully automated antenna system whereby, upon activation, the antenna system is automatically unstowed and pointed at the appropriate satellite, and the connection is established.

Figure 3 illustrates examples of a vehicle-mounted Hughes VSAT system, and **Figure 4** illustrates a fly-away Hughes VSAT system. Delivery and/or installation of mobile satellite systems require an eight (8) week lead time from the time of order.

Figure 3. Examples Vehicle-Mounted Hughes VSAT System

Figure 4. Examples of a 0.74 98 Meter Vehicle-Mounted Hughes/C-Com VSAT System While Deployed and While Stowed

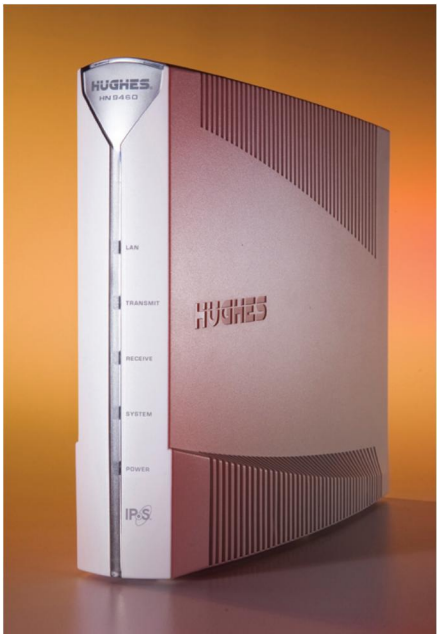
Figure 5. Example of a 1.2 M Fly-Away Hughes/C-Com VSAT System Kit

B.2.4.3 HN9400 or HN9460

HN9400 or HN9460 Satellite Router IPv6/IPv4 Ready

The Hughes HN9400 OR HN9460 is a new-generation, dual Ka-/Ku-band broadband satellite router designed for high-throughput satellite applications. The HN9400 OR HN9460 incorporates advanced LDPC coding and other new features, making it the ideal platform to deliver even the most bandwidth-demanding services on today's Ka- and Ku-band satellites, while being future-proof for the next-generation, high throughput systems.

High Throughput, High Efficiency, and Future Proof



Fully compliant with the industry-leading IPoS standard, the HN9400 OR HN9460 is a powerful satellite router featuring high performance on the DVB-S2/ACM forward channel as well as the adaptive LDPC coding return channel. The adaptive coding on the return channel enables the unit to dynamically change FEC rates, burst-to-burst, based on link conditions, to achieve the highest throughput while maintaining high link availability. Through the combination of adaptive LDPC coding and a powerful processor, the HN9400 OR HN9460 supports upstream burst rates of 3.6 Mbps, making the HN9400 OR HN9460 an ideal platform for next-generation, high-throughput satellite systems.

To enable superior end-user performance, the HN9400 OR HN9460 includes a full set of integrated WAN optimization features. Accelerated TCP and HTTP performance features, including HTTP prefetch (objects are locally cached on the HN9400 OR HN9460) along with DNS caching, enable fast Web browsing. Integrated header and packet payload compression both conserves bandwidth and contributes to high performance.

A full-featured IP router, the HN9400 OR HN9460 supports a switching capacity up to 5,000 packets per second, eliminating the need for an external router. IP routing and addressing features implemented in the HN9400 OR HN9460 include the RIPV2 and BGP routing protocols, virtual router redundancy protocol (VRRP) with policy-based routing, DHCP server or relay, network address translation (NAT), and port address translation (PAT). The HN9400 OR HN9460 also handles end-to-end VLAN tags complying with the 802.1P and Q standards, and each VLAN may be configured with its own QOS. Government and enterprise users can be confident of the security of information running through the HN9400 OR HN9460, as it uses hardware based conditional access system and optionally AES-256 encryption for user traffic.

Network operations are easy to perform as the HN9400 OR HN9460 features an integrated Web server supporting a Web browser interface for commissioning and troubleshooting. Full-featured, built-in diagnostics provide historical information about network performance or error conditions. An integrated LAN sniffer eliminates the need for onsite presence during troubleshooting. The HN9400 OR HN9460 is centrally managed for software configurations and downloads.

Adaptive LDPC Coding

The HN9400 OR HN9460 incorporates an innovative adaptive LDPC coding scheme on the return channel, developed by Hughes, enabling superior modem performance. The adaptive LDPC's ability to run with minimal link margin results in maximum bandwidth efficiency. Additionally, the HN9460's use of variable-burst LDPC code block lengths sized to the amount of IP data to be transmitted further increases the return-channel efficiency. Overall, the adaptive LDPC coding on the return channel yields more than 20% bandwidth efficiency improvement over competing systems.

Features:

Acts as a local router, providing:

- Static and dynamic addressing
- DHCP server or relay
- DNS caching
- Full RIPV2 and BGP routing support
- VRRP
- Multicasts to the LAN by using IGMP
- NAT/PAT
- End-to-end VLAN support with configurable QOS per VLAN
- Firewall support through integrated access control lists
- Implements PEP software to accelerate throughput performance by optimizing the TCP transmission over the satellite, delivering superior user experience and link efficiency
- Implements Hughes TurboPage software to accelerate HTTP traffic for fast browser access
- QoS features include: Inbound Quality of Service (IQoS), bidirectional DSCP, and outbound bandwidth management.
- Secure Network Transmission with bidirectional IPSEC and AES-256 encryption (optional)
- Configuration, status monitoring, and commissioning via the NOC
- Remote terminal management via the Hughes Vision® Network Management System or Unified Element Manager and SNMP monitoring

Technical Specifications

Physical Interfaces
Two 10/100BaseT Ethernet LAN RJ45 ports
Satellite and Antenna Specifications
Outbound transmission format: DVB-S2
Information Rate: Up to 121 Mbps
(Receive or Outbound Channel)
Information Rate: Up to 3.6 Mbps
(Transmit or Inbound Channel)
Symbol Rate (Receive): 1 to 45 Msps (in 1 Msps steps)
Symbol Rate (Transmit): 256, 512, 1024, 2048 ksps
Encoding (Receive): DVB-S2 LDPC/BCH

Encoding (Transmit): LDPC FEC 1/2, 2/3, 4/5 and 9/10, TurboCode FEC 1/2, 2/3, and 4/5
Frequency Range: Ka-/Ku-band
Modulation (Receive): QPSK, 8PSK, 16APSK
Modulation (Transmit): OQPSK
Bit Error Rate (Receive): 10-10 or better
Bit Error Rate (Transmit): 10-7 or better
Antenna: 74 cm, 89 cm, 98 cm, 120 cm, 180 cm
Radio: 1 and 2 W Ka- or Ku-band
Mechanical and Environmental
Weight: 1.6 lbs. (.73 kg)
Dimensions: 8.0" H x 1.6" W x 9.0" D
(20.3 cm H x 4.1 cm W x 22.9 cm D)
Operating Temperature: 0º C to 50º C
Input Power: 90 to 264 VAC; 50 to 60 Hz
DC Power Supply (Optional): 12 to 24 VDC

B.2.5 Hughes Services

Hughes services are offered with either **shared bandwidth/capacity** or **dedicated/guaranteed bandwidth/capacity.** Shared capacity services are offered as standard service plans and can be purchased one site at a time. Dedicated/guaranteed bandwidth services are offered per amount of bandwidth purchased, regardless of the number of sites.

B.2.5.1 Shared Bandwidth Services

Hughes offers two sets of standard shared bandwidth/capacity service plans. One is tailored for **internet access** (IA) and is offered on shared and/or dedicated IP Gateways. The other is tailored for **Enterprise Private Networking Access** and is offered only on dedicated IP Gateways.

Table 3 sets forth the attributes for all standard Hughes Internet Access service plans. Users activated under these plans receive "commercially reasonable effort" performance per the targets provided in **Table 2**. No service level agreements (SLAs) or service level objectives (SLOs) apply to any users activated under these service plans, regardless of whether the user is on a shared or dedicated gateway.

Table 4 and **Table 5** set forth the attributes for all standard Hughes Enterprise Access service plans. Users activated under these plans receive "commercially reasonable effort" performance per the targets provided in **Table 2**. No SLAs or SLOs apply to any users activated under these service plans. These service plans are offered only on dedicated IP Gateways and require private networking components such as dedicated backhaul. Reseller will also be required to purchase dedicated IP Gateway(s) for these service plans.

All of these services require a minimum term commitment of twelve (12) months.

B.2.5.2 Hughes Connect and Express

Table 2. Hughes Connect and Express

Service Plan Name	Daily Allowance (MB)	Max Download (kbps)	Max Upload (kbps)
Connect 100	250	1000	200
Connect 100 Plus	300	1000	200
Connect 150	350	1500	250
Connect 150 Plus	400	1500	250
Express 200	450	2000	300
Express 200 Plus	500	2000	300
Express 300	850	3000	512
Express 300 Plus	1100	3000	512
Express 500	850	5000	1024
Express 500 Plus	1100	5000	1024

Table 3. Internet Access (IA) Service Plans

Service Plan Name	IA50	IA100	IA150	IA200	IA300	IA400
Target Application - Internet Access	"	"	"	"	"	“
Standard Remote Configuration (LOS offering only)						
Hardware model	HN7000S	HN7000S	HN7000S	HN7000S	HN7000S	HN7000S
Minimum antenna size (m)	0.98	0.98	0.98	0.98	0.98	1.2
Radio size (W)	2	2	2	2	2	2
Installation - type	Enterprise	Enterprise	Enterprise	Enterprise	Enterprise	Enterprise
Service Characteristics						
Upstream						
Upstream speeds (up to kbps)	128	200	200	300	500	1000
Downstream						
Downstream speed (up to bps)	700	1000	1500	1500	2000	2500
Downstream speeds (up to kbps)	700	1000	1500	1500	2000	2500
Download threshold (MB)	200	300	425	500	800	1250
IP Address	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic

1. HN7000S and IA Service plans are only available in the event of line of sight (LOS) issues when ordering HN9000 and associated BI Service
2. Plans.
3. IA Service Plans are available for Transportable orders.

Table 4. Enterprise Access Service Plans

Enterprise Access Service Plans						
Service Plan Name	**Enterprise 100**	**Enterprise 200**	**Enterprise 300**	**Enterprise 400**	**Enterprise 800**	**Enterprise 900**
Target End User	Enterprise	Enterprise	Enterprise	Enterprise	Enterprise	Enterprise
Target Market	SME/LE	SME/LE/Gov	SME/LE/Gov	SME/LE/Gov	SME/LE/Gov	SME/LE/Gov
Target Applications	credit/debit, ATM	credit/debit, ATM, polling, intranet	credit/debit, ATM, polling, intranet	credit/debit, ATM, polling, intranet, Internet	credit/debit, ATM, polling, intranet, Internet	credit/debit, ATM, polling, intranet, Internet
Typical No. of Concurrent Users (Up to)	N/A	2	2	2	10	20
Limited Internet Access Included	No	No	Yes	Yes	Yes	Yes
Offered for Private Networking	Yes	Yes	Yes	Yes	Yes	Yes
Remote Configuration						
Hardware Model	HN7700	HN7700	HN7700	HN7700	HN7700	HN7700
Minimum Antenna Size Required (m)	0.98	0.98	0.98	0.98	0.98	1.2
Radio Size (W)	2 W	2 W	2 W	2 W	2 W	2 W
Service Characteristics						
Upstream Speeds (Up to kbps)	64	128	256	256	512	1024
Upload Threshold (MB)	10	50	75	50	100	100
Downstream Speeds (Up to kbps)	256	1024	1544	1544	2048	2560
Download Threshold (MB)	20	100	250	500	1250	1250
Traffic Priorititization	Optional	Optional	Optional	Optional	Optional	Optional
Multicast Streaming	N/A	Optional	Optional	Optional	Optional	Optional
Multicast Delivery (standard 3 Mbps)	N/A	Optional	Optional	Optional	Optional	Optional
Service Options						
Static Routable Public IP Address Included	N/A	N/A	N/A	N/A	No	No
Additional Routable Public IP Address	N/A	N/A	N/A	N/A	Yes	Yes
Email Accounts (includes 10 MB of storage per account)	N/A	N/A	N/A	N/A	N/A	N/A
VADB (Requires DW7700)	Optional	Optional	Optional	Optional	Optional	Optional

Table 5. Enterprise Access Continuity Service Plans

Enterprise Access Service Plans			
Service Plan Name	**Access Continuity 100**	**Access Continuity 200**	**Access Continuity 500**
Target End User	Enterprise	Enterprise	Enterprise
Target Market	SME/LE/Gov	SME/LE/Gov	SME/LE/Gov
Target Applications	Frame Back-up	Frame Back-up	Frame Back-up
Typical No. of Concurrent Users (Up to)	10	20	20
Limited Internet Access Included	No	No	No
Offered for Private Networking	Yes	Yes	Yes
Remote Configuration			
Hardware Model	HN7700	HN7700	HN7700
Minimum Antenna Size Required (meter)	0.98	0.98	1.2
Radio Size (w)	2w	2w	2w
Service Characteristics			
Upstream Speeds (Up to kbps)	256	512	1024
Upload Threshold (MB)	75	100	100
Downstream Speeds (Up to kbps)	1024	2048	2560
Download Threshold (MB)	250	1250	1250
Traffic Priorititization	Optional	Optional	Optional
Multicast Streaming	Optional	Optional	Optional
Multicast Delivery (standard 3 Mbps)	Optional	Optional	Optional
Service Options			
Static Routable Public IP Address Included	N/A	N/A	N/A
Additional Routable Public IP Address	N/A	N/A	N/A
Email Accounts (includes 10 MB of storage per account)	N/A	N/A	N/A
VADB (Requires DW7700)	Optional	Optional	Optional

HN7000S and IA Service Plans are only available in the event of LOS issues when ordering HN9000 and associated Plans.

B.3 SPACEWAY 3 S-Service Plans (S-Plans)

Operating in globally-assigned Ka-band spectrum, Hughes' SPACEWAY 3 satellite employs high-performance, onboard digital processing, packet switching, and spot-beam technology to offer direct site-to-site connectivity at rates of from 512 kbps up to 16 Mbps. SPACEWAY 3 combines the traditional advantages of satellite, namely ubiquitous reach and efficient broadcast/multicast, with high data rates and mesh connectivity to give customers a fast, efficient, flexible, and cost-effective communications solutions. The S-plans include both upstream and downstream bandwidth.

Table 6. SPACEWAY 3 Service Plans

Service Plan	Applications	Transmit/Receive Speed
S-50	Fast, "always-on," economical support for transaction-based or polling applications (e.g., retail POS transactions, SCADA) for fast network response times. Typically 1 to 2 simultaneous users per site.	64 kbps/1024 kbps
S-100	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 1 to 2 simultaneous users per site.	128 kbps/1024 kbps
S-200	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 3 to 4 simultaneous users per site.	256 kbps/1536 kbps
S-300	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	512 kbps/2048 kbps
S-400	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	1024 kbps/3072 kbps

The service plans above have been designed for the support of business applications such as approved Web browsing, email, polling, and remote PC support. These types of applications can be accommodated with the constant bit rate overlay. The service plans are not designed to support applications that are streaming data such as audio or video content, including security video. These S-Service Plans are subject to Hughes Fair Access Policy, which establishes an equitable balance for Hughes subscribers. Hughes assigns a download threshold to each service plan that limits the amount of data that may be downloaded during a typical day. A small percentage of subscribers who exceed this limit will experience a temporary reduction of speed.

Table 7. Private Network Service Plans

Private Network Service Plans										
SPACEWAY 3 Service Plans	**D-50**	**D-100**	**D-200**	**D-300**	**D-400**	**D-100H**	**D-200H**	**D-300H**	**D-400H**	**D-500H**
Typical No. of Concurrent Users (Up to)	1	2	10	10	15					
Remote Configuration										
Hardware Model	HN9500	HN9500	HN9500	HN9500	HN9500	HN9500	HN9500	HN9500	HN9500	HN9500
Minimum Antenna Size (m)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Minimum Radio Size (W)	2	2	2	2	2	2	2	2	2	2
Installation Type - Enterprise										
Service Characteristics										
Primary										
Upstream										
Typical Upstream Speed (Up to kbps)	64	128	256	512	1024	128	256	512	1024	2048
Downstream (Up to)	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps	8 Mbps

B.4 Access Continuity Service Plans

Access Continuity offers a diverse-path, secure backup system via satellite to keep the agency running even if the primary broadband connection goes down. Each satellite terminal providing Access Continuity service needs to be configured with a Service Plan. Access Continuity S and D Service Plans and their associated pricing are listed in **Table 8**.

Table 8. Access Continuity Service Plans

Access Continuity S-Plan	Applications	Transmit/Receive Speed
S-AC50	Support for transaction-based or polling applications (e.g., retail POS transactions, SCADA) for fast network response times. Typically 1 to 2 simultaneous users per site.	64 kbps/1024 kbps
S-AC100	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 1 to 2 simultaneous users per site.	128 kbps/1024 kbps
S-AC200	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 3 to 4 simultaneous users per site.	256 kbps/1536 kbps
S-AC300	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	512 kbps/2048 kbps
S-AC400	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	1024 kbps/3072 kbps

Each Access Continuity plan includes a monthly usage allotment of 36 hours per site per month. Pooling of site allotments is not permitted.

The service plans above have been designed for the support of business applications such as approved Web browsing, email, polling, and remote PC support. The service plans are not designed to support sending or receiving streaming audio or video content, including security video.

Table 9. Access Continuity Service Plans		
Access Continuity D-Plan	**Applications**	**Transmit Speed**
D-AC50	Support for transaction-based or polling applications (e.g., retail POS transactions, SCADA) for fast network response times. Typically 1 to 2 simultaneous users per site.	64 kbps
D-AC100	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 1 to 2 simultaneous users per site.	128 kbps
D-AC200	Designed for full range of retail or small office applications (POS, credit, polling, email, and corporate intranet). Typically 3 to 4 simultaneous users per site.	256 kbps
D-AC300	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	512 kbps
D-AC400	Designed for larger offices with bandwidth-intensive applications. Typically 5 to 10 simultaneous users per site.	1024 kbps

Each Access Continuity plan includes a monthly usage allotment of 36 hours per site per month. Pooling of site allotments is not permitted.

Note that most Access Continuity networks using the D-AC service plans require network infrastructure at the agency data center as well as high-volume uplink (HVUL) capacity from the data center.

The service plans above have been designed for the support of business applications such as approved Web browsing, email, polling, and remote PC support. The service plans are not designed to support sending or receiving streaming audio or video content, including security video.

B.4.1 Dedicated/Guaranteed Bandwidth Services: Outroute

Dedicated Outroute Bandwidth service is provided through the use of dedicated servers and gateways and provides a fixed outroute capacity. Charges associated with this service include a one-time setup charge and a recurring monthly fee that is based on the actual bandwidth purchased. Any site provisioned to this service will also be assessed a monthly NOC fee based on the actual inroute class (as determined by the upstream speed).

B.4.2 NOC Access

The NOC fee is a network subscription fee that applies to sites that do not subscribe to any of the standard service plans (Internet Access or Enterprise Access) described in Section B.2.3.1 above. Examples of sites that will be charged the NOC fee are sites that utilize Dedicated/Guaranteed Outroute Bandwidth service as described above. The NOC fee is required to provide network connectivity and is offered at three levels for different applications as follows:

Table 10. NOC Access			
Plan Name	**NOC Access 100**	**NOC Access 200**	**NOC Access 300**
Service Characteristics			
Upstream Speeds (Up to kbps) [1]	64	128	256
Upload Threshold (MB) [2]	10	50	75

1. Upstream speeds not guaranteed. Speeds listed are maximum speeds available under the applicable Service Plan.
2. The volume of data that can be uploaded continuously before the Fair Access Policy may restrict the upload speed. Several variables affect this number, including speed and duration of upload.

B.4.3 SPACEWAY 3 Constant Bit Rate

SPACEWAY 3 Constant Bit Rate (CBR) provides on-demand, point-to-point connectivity between any two sites in the SPACEWAY 3 network. The customer can get the benefits of a high QoS dedicated link without the need to lock up the bandwidth 24/7. When the service is in use, the bandwidth is fully dedicated to the site and not shared with other users.

The CBR feature allows a remote site to transmit in 64 kbps increments from 64 kbps up to 1.5 Mbps and is intended for voice, video, or streaming data applications. CBR units can be purchased on a per-unit basis, where the customer pays the full rate for actual units used per month, or the customer can select a bundled plan of units that provides a discounted price per unit. **Table 11** shows example pricing for CBR, assuming non-bundled, per-unit charges.

Table 11. SPACEWAY 3 CBR

Connection	Units (1 or 2 way x minutes x rate/64 kbps)	Price
One way – 3 min @ 64 kbps	1 x 3 x 64/64 = 3 units	3 x $0.14 = $0.42
Two way – 3 min @ 64 kbps	2 x 3 x 64/64 = 6 units	6 x $0.14 = $0.84
One way - 60 min @ 1,024 kbps	1 x 60 x 1024/64 = 960 units	960 x $0.14 = $134.40
Two way - 35 2- min calls @ 64 kbps	2 x 2 x 64/64 = 4 units per call 4 units x 35 calls = 140 units	140 x $0.14 = $14.00

CBR does not accelerate IP traffic via PEP or TurboPage. Since CBR augments an S-Plan or D-Plan network, SPACEWAY 3 allows the users to define the specific traffic that will transmit using CBR. Otherwise, all traffic will adhere to the speeds and constraints of the underlying S-Plan or D-Plan. For each CBR connection, the sites will be billed by the minute, and minutes can be purchased in bundles to accommodate larger networks. Unused minutes do not carry over from one month to the next.

B.4.4 HX Service

B.4.4.1 Hughes HX Private Network Service

The Hughes HX System is designed and optimized for smaller and mobile networks, including maritime and airborne applications, where the provision of high-quality and high-bandwidth links is paramount. Capable of simultaneous mesh, star, and multi-star configurations, the HX System builds upon the capabilities and global success of the high-performance HN System, incorporating many advanced features pioneered by Hughes, including integrated TCP acceleration and advanced IP networking. Its broadband satellite products are based on global standards approved by TIA, ETSI, and ITU, including IPoS/DVB-S2, RSM-A, and GMR-1.

The core component of the HX System is the HX Gateway, which acts as the system master and includes network management and a dynamic bandwidth assignment manager. The HX Gateway uses a DVB-S2 carrier with adaptive coding and modulation (ACM) for the outbound channel received by all HX System remote terminals. HX remote terminals utilize FDMA/TDMA channels to communicate back to the HX Gateway (star mode) or to each other (mesh mode).

The FDMA/TDMA channels of the HX System are highly efficient and are based on the industry-leading standard, Internet Protocol over Satellite (IPoS), which has been endorsed by ETSI, ITU, and TIA. The HX System FDMA/TDMA channels support data rates up to 6.0 Mbps.

Efficiency and flexibility in utilizing satellite bandwidth are core to the design of the HX System. Each link, in star or mesh mode, can be configured to provide a QoS tailored for an individual remote terminal. And each remote link can be independently configured with unique committed information rates (CIRs), thereby allowing a government agency to develop a service tailored to its specific requirements. In addition, the HX System bandwidth allocation scheme is designed so that idle terminals can be configured to release all bandwidth assignments, thus ensuring optimal bandwidth utilization.

B.4.4.2 HX System Features

- Quality of Service features
  - On-demand constant bit rate (CBR) services
  - Adaptive CBR with minimum, maximum, and user-definable step-sizes
  - CIR with minimum, guaranteed, and maximum rates
  - Backlog-based dynamic stream with weighted fair queuing
  - Class-based weighted prioritization
  - Multicast data delivery
  - Four levels of IP traffic prioritization

- Bandwidth allocation
  - Supports both pre-assigned (static) traffic assignment and dynamic traffic assignment
  - Idle remotes can be configured to release all network resources
- Bandwidth optimization
  - Integrated TCP spoofing
  - Integrated HTTP acceleration (optional)
  - Integrated TCP and UDP compression
  - Header compression
  - Outbound ACM
  - Inbound adaptive inroute selection
- IP routing capability
  - Static and dynamic addressing
  - DHCP server or relay
  - DNS caching
  - RIPV1, RIPV2, BGP routing support
  - Multicasts to and from the LAN by using IGMP
  - NAT/PAT
  - VRRP
  - VLAN tagging (end-to-end)
  - Firewall support through integrated access control lists
- Bidirectional data encryption (optional)
- Configuration, status monitoring, and commissioning
- Remote terminal management via the Hughes Unified Element
- Manager and SNMP agent
- Mobility features (optional)
  - FDMA/TDMA channel spreading
  - NEMA interface
  - Roaming support
  - Doppler compensation
  - Fast reacquisition of outbound
  - Persistent IP connection
- Mesh features (optional)
  - Simultaneous star/mesh
  - Multichannel mesh receiver at remote
  - Mesh TCP and UDP connections
  - Mesh Gateway

Figure 6. HX-200 Indoor Unit

Figure 7. HX-50 Indoor Unit

The HX System has the ability to provide dynamic allocation of bandwidth to economically support such QoS features as dynamic CBR QoS for two-way voice and video applications. This dynamic CBR allows for low-jitter and low-latency connections between remotes and gateways, allowing for high quality of voice and bandwidth efficiency in providing the remote with the required bandwidth based on the application.

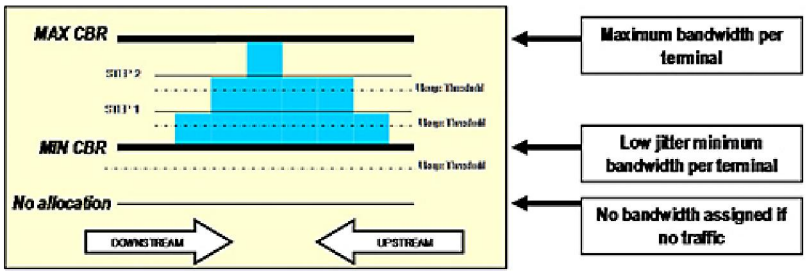


Figure 8. Dynamic CBR

B.4.4.3 HX ExpertNMS™

Managing and monitoring an HX System is easily done using the HX ExpertNMS, a powerful network management system. The graphical and intuitive interface of the HX ExpertNMS means that operators can easily navigate through all aspects of an operational HX System from configuration through troubleshooting. The HX ExpertNMS is available on the HX System release 2.3 and higher.

Look and Feel

- Browser-based client
- Customizable network overview screen
- Map display with color-coded status of routers

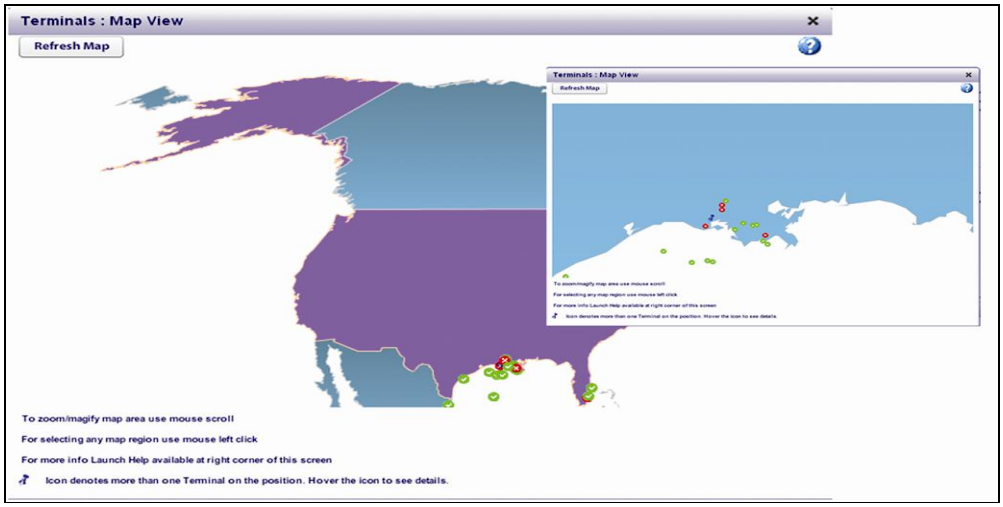


Figure 9. Map Display

- Multiple graphs and pie charts give a quick overview
- Ability to create custom displays for Network Operations Center console
- Virtual network operator (VNO) support enabling partitioned views

NetGuide Installation Wizard

- Provides guided walk-through setup
- Verifies components and software
- Configures service plans

Network Performance Monitoring

- Router overview – list/map view (aggregated router status)
- Inroute traffic – throughput, status, statistics
- Outroute traffic – throughput, status, statistics

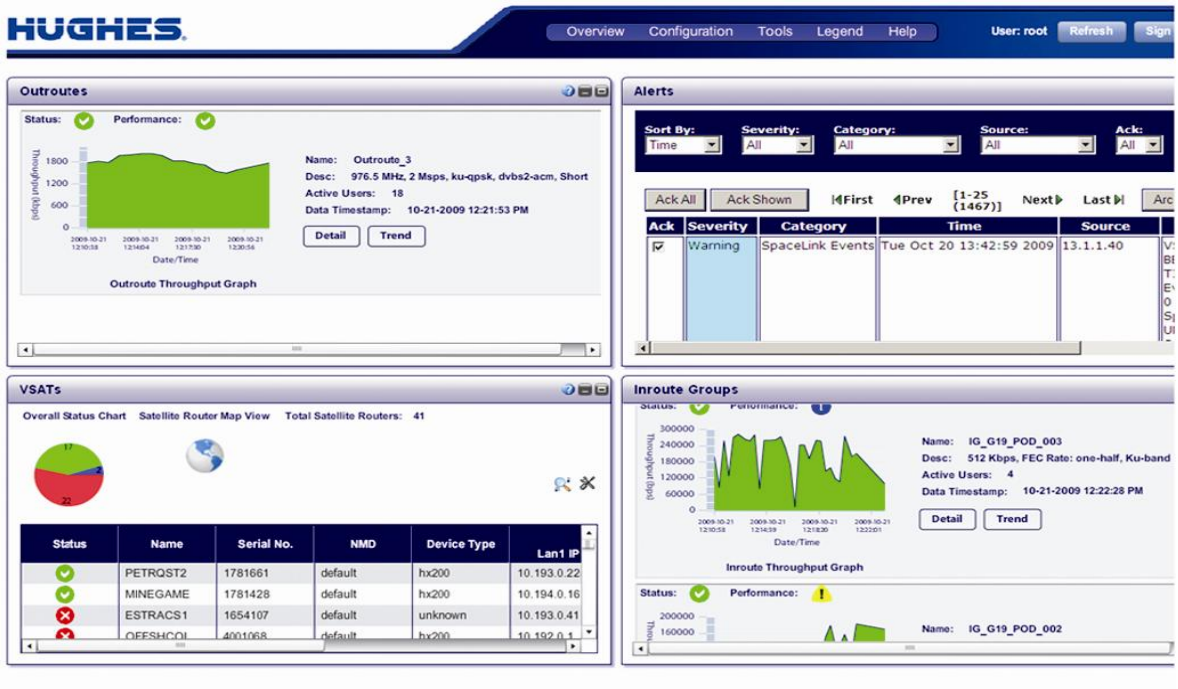


Figure 10. HX ExpertNMS

NetGuardian

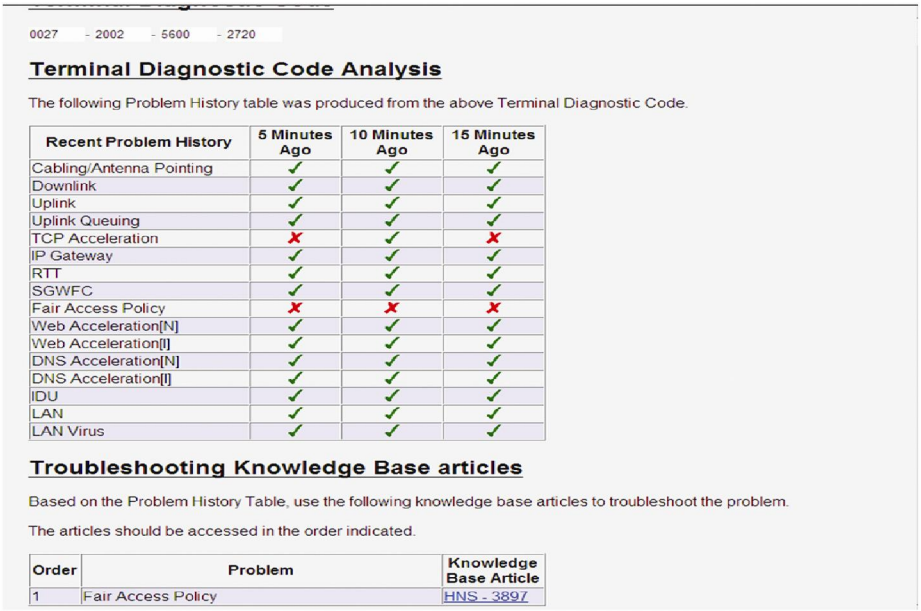
- Automated troubleshooting
- Constant monitoring
- Discovers and alerts error conditions

Help

- Recommendations for problem solving
- Context-sensitive help on all displays
- Full index and search of help topics
- Hot link to access electronic documentation

Advanced Diagnostics

- Detailed views provide immediate component associations and status
- Router diagnostic codes are leveraged to provide insight into router issues



0027 - 2002 - 5600 - 2720

Terminal Diagnostic Code Analysis

The following Problem History table was produced from the above Terminal Diagnostic Code.

Recent Problem History	5 Minutes Ago	10 Minutes Ago	15 Minutes Ago
Cabling/Antenna Pointing	✓	✓	✓
Downlink	✓	✓	✓
Uplink	✓	✓	✓
Uplink Queuing	✓	✓	✓
TCP Acceleration	✗	✓	✗
IP Gateway	✓	✓	✓
RTT	✓	✓	✓
SGWFC	✓	✓	✓
Fair Access Policy	✗	✗	✗
Web Acceleration[N]	✓	✓	✓
Web Acceleration[I]	✓	✓	✓
DNS Acceleration[N]	✓	✓	✓
DNS Acceleration[I]	✓	✓	✓
IDU	✓	✓	✓
LAN	✓	✓	✓
LAN Virus	✓	✓	✓

Troubleshooting Knowledge Base articles

Based on the Problem History Table, use the following knowledge base articles to troubleshoot the problem.

The articles should be accessed in the order indicated.

Order	Problem	Knowledge Base Article
1	Fair Access Policy	HNS - 3897

Figure 11. Advanced Diagnostics

Network Monitoring

- Full-featured event manager including:
  - Event display
  - Event filtering
  - Event sorting
  - Event acknowledgement
- Continuous network monitoring with customizable thresholds for alerts
- Router performance and status in context of inroute and outroute performance

Alarm Manager

- Monitors all system alarms and events
- Manages alarms
- Exports alarms as traps
- Generates automatic email or page

The entry point for the HX ExpertNMS client is the Overview screen, which provides a single display of the high-level operation of the HX System including outroute status, inroute status, network alerts, and terminal status. With one click, an operator can drill down into any of these areas in order to quickly obtain more detailed information. The Overview screen has been designed so that operators can project this information onto a large screen at the NOC for easy viewing.

Features

- Browser-based client runs on Internet Explorer and other popular browsers such as Mozilla and Safari
- Operator-customizable network overview screen
- Context-sensitive help on all screens
- Full-featured event manager
- Browser-based documentation library
- Trend charting of inroute and outroute performance
- Inroute group details including IQoS/FEC/QoS utilization
- Outroute details including ACM Modulation/coding distribution.

- Graphed traffic of flow control and priority queues on a per-IPGW basis
- Terminal overview with both list and geographical view
- Terminal diagnostics message that quickly isolates terminal issue and guides the operator to quick resolution
- Terminal views chart inbound/outbound throughput and also show traffic type statistics
- One-click view of associated hub components status and health

Using a graphical map, the HX ExpertNMS provides a color-coded status display of remote routers. Green indicates status is OK; red means there is a problem. With one click on the map, the operator can zoom in to a remote router to obtain detailed statistics and status of the operational condition of that remote router.

Terminal diagnostic messages can be quickly viewed so that problems are immediately identified. Once a problem is identified, the HX ExpertNMS provides context-sensitive help to facilitate a quick resolution. Performance of the remote router can be monitored including inbound/outbound throughput by traffic type. To help the operator understand if there is a hub-related issue causing remote router performance problems, a one-click view from a remote router provides a view of all of the hub components associated with the remote router.

The configuration dashboard enables simple and error-free configuration of components. Color-coded outroute and inroute frequency allocation visually illustrates inroute spacing and unused spectrum. Guided setup of all components, as well as network service plans, is facilitated through the NetGuide feature. The dashboard provides at-a-glance graphs and data about the hub components associated with outroutes, inroutes, and remote routers.

B.4.4.4 HX ExpertNMS – Standard Version

Delivered with all HX Systems, the HX ExpertNMS standard version includes the configuration functionality plus network overview status monitoring functionality.

B.4.4.5 HX ExpertNMS – Advanced Version

The optional HX ExpertNMS advanced version includes all the functionality of the standard version, plus the NetGuardian and Alarm Manager functionality.

B.4.4.6 HX Internet Circuit Service

B.4.4.6.1 HX Internet Access Circuits

HX service provides high-quality service to the public Internet. Service is at a standard oversubscription rate:

- One static public IP address per remote (1)
- Internet access
- Built-In WAN acceleration
- Optional application-specific CIR, ideal for VoIP, video, or streaming data

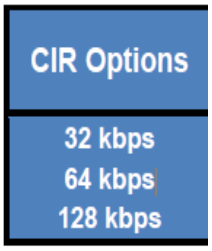
Hughes offers multiple Internet Access plans with upload speeds up of to 3 Mbps and download speeds of up to 10 Mbps as described in **Table 12**:

Table 12. Oversubscribed Internet Access Circuit Plans

Upload speed (Up to kbps) (1)	128	256	256	512	1024	3048
Download speed (Up to kbps) (1)	256	512	1024	1544	5120	10240
Oversubscription (2)	25:1	25:1	25:1	25:1	25:1	25:1
Internet Access Included (3)	☑	☑	☑	☑	☑	☑
1 Public Static IP (4)	☑	☑	☑	☑	☑	☑
Private IPGW Option Available	☑	☑	☑	☑	☑	☑
Download Allowance (MB) (5)	220	440	880	1340	4420	8840
Minimum Required Inroute Size (ksps) (7)	256	256	256	512	1024	2048

1. Five Public IP addresses are available. IP addresses are subject to the limitations specified in the Hughes Agreement.
2. Actual speeds and over subscription may vary and are not guaranteed.
3. To ensure fair access for all Hughes subscribers, Hughes assigns a download allowance to each circuit plan of the amount of data that may be continuously downloaded within a 24-hour period, per terms of Hughes Agreement.
4. Requires a minimum order of 20 sites.

B.4.4.6.2 Application-Specific CIR Option



An application-specific CIR, typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR usage is subject to the download allowance of the associated circuit plan.

B.4.4.6.3 Private IP Gateway Option

With a minimum order of 20 circuits, HX circuits can be aggregated into a dedicated, private IP Gateway (IPGW). HX circuits on a private IPGW are subject to the same terms and benefits as Internet access circuits with the following additional benefits:

- Proactive monitoring
- Hughes network management portal access
- Fault management
- Customized performance reporting
- HX ExpertNMS network management.

A Private IPGW can connect to the Internet or can be used to support a private wireline backhaul.

B.4.4.6.4 HX Dedicated Bandwidth Option

In place of an individual Circuit Plan per remote, a group of remotes can be configured to share a pool of dedicated bandwidth on the inbound and outbound directions. A private IPGW is required.

Dedicated bandwidth benefits:

Customization of:

- Upload/download oversubscription and speeds
- Application prioritization
- One static, public IP address per site
- Internet access
- Built-In WAN acceleration
- Optional application-specific CIR (ideal for VoIP, video, or streaming data)
- No download allowance (subject to certain limitations)
- Proactive monitoring
- Hughes network management portal access
- Fault management
- Customized performance reporting
- HX ExpertNMS network management

B.4.5 Transponded Capacity Service

The list of absolutely covered satellites for each region is listed below. Satellites in addition to the ones named below may be options but are not included in the pricing analysis. Limited engineering services such as development of link budgets and transmission plans are included in the Hughes pricing for transponded capacity.

At a minimum, Hughes can provide capacity on satellites from Intelsat, SES World Skies, Satmex, Eutelsat, and Telesat.

B.4.5.1 CONUS North America Region

The CONUS North America region is defined as the 48 states of the US and parts of Mexico and Canada. Alaska and Hawaii are not included in the coverage for the satellites in this region. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on technical and coverage requirements provided by the customer. The satellite maps in **Figure 12** and **Figure 13** are examples of the coverage that Hughes can provide for this region.

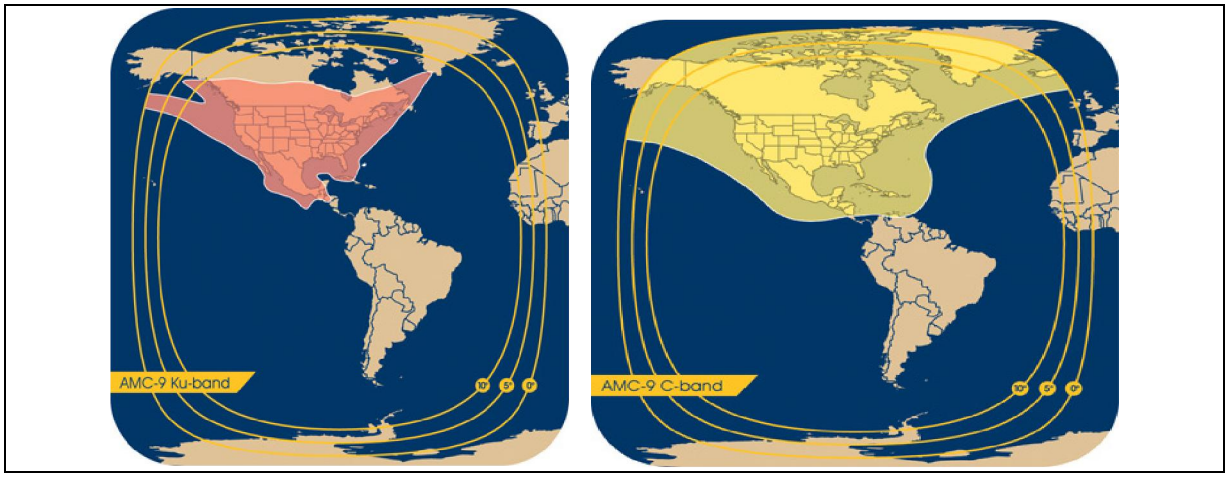


Figure 12. CONUS Ku-Band and C-Band

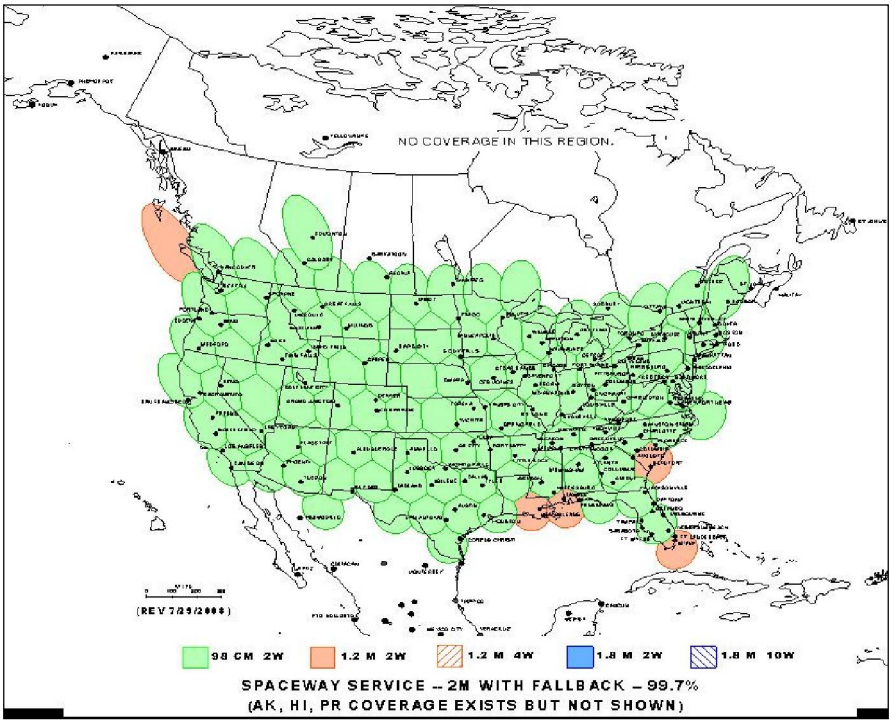


Figure 13. CONUS Ka-Band

B.4.5.2 50-State North America Region

The 50-State North America region is defined by including all 50 states and parts of Mexico and Canada. Puerto Rico is also included on many of these satellites. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite maps in **Figure 14** through **Figure 16** are examples of the coverage that Hughes can provide for this region.

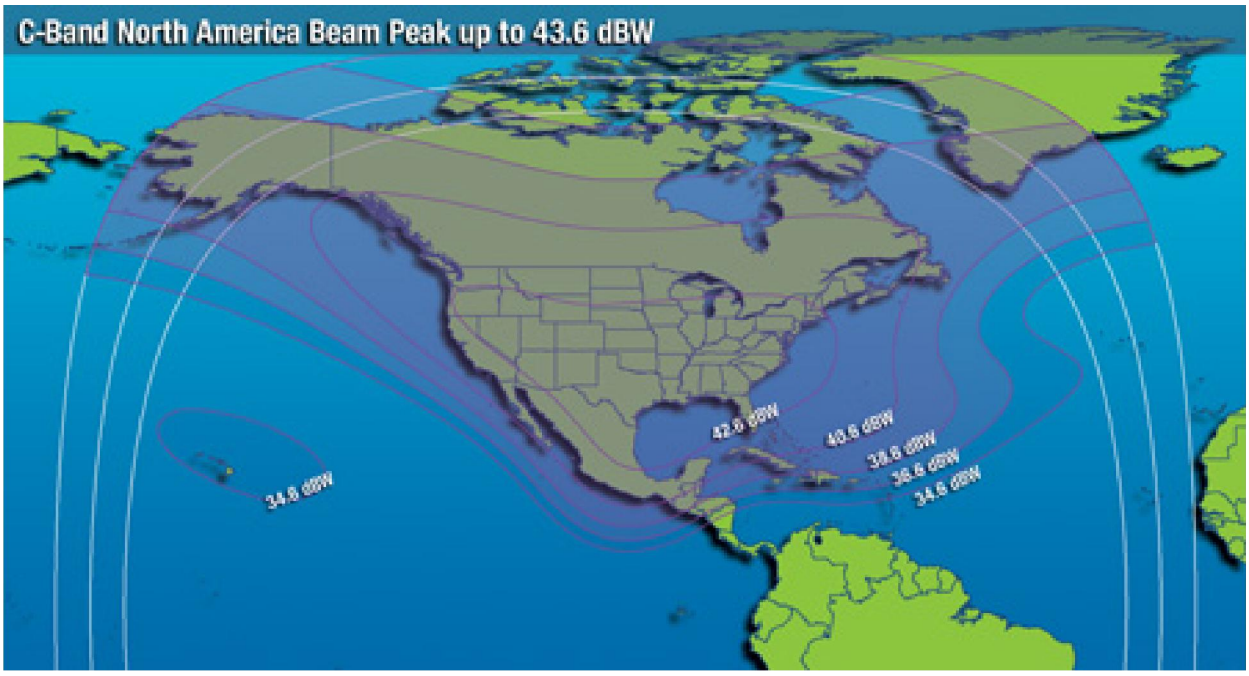


Figure 14. C-Band North America Beam Peak

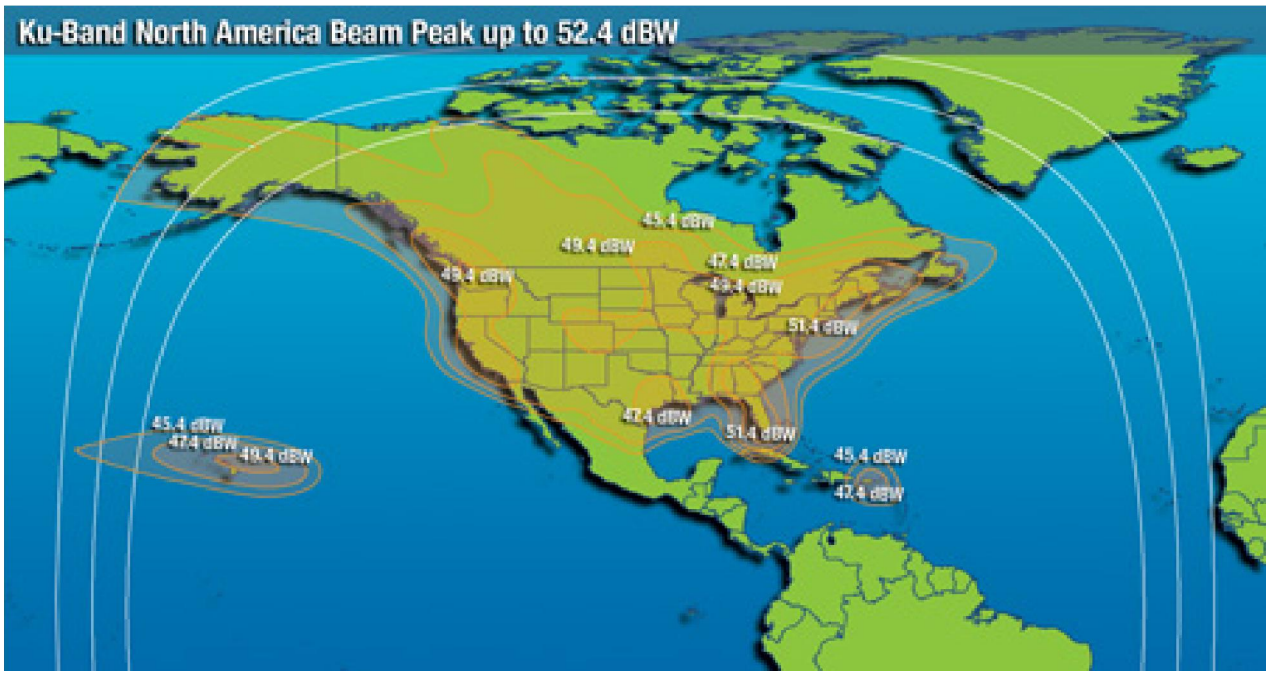


Figure 15. Ku-Band North America Beam Peak

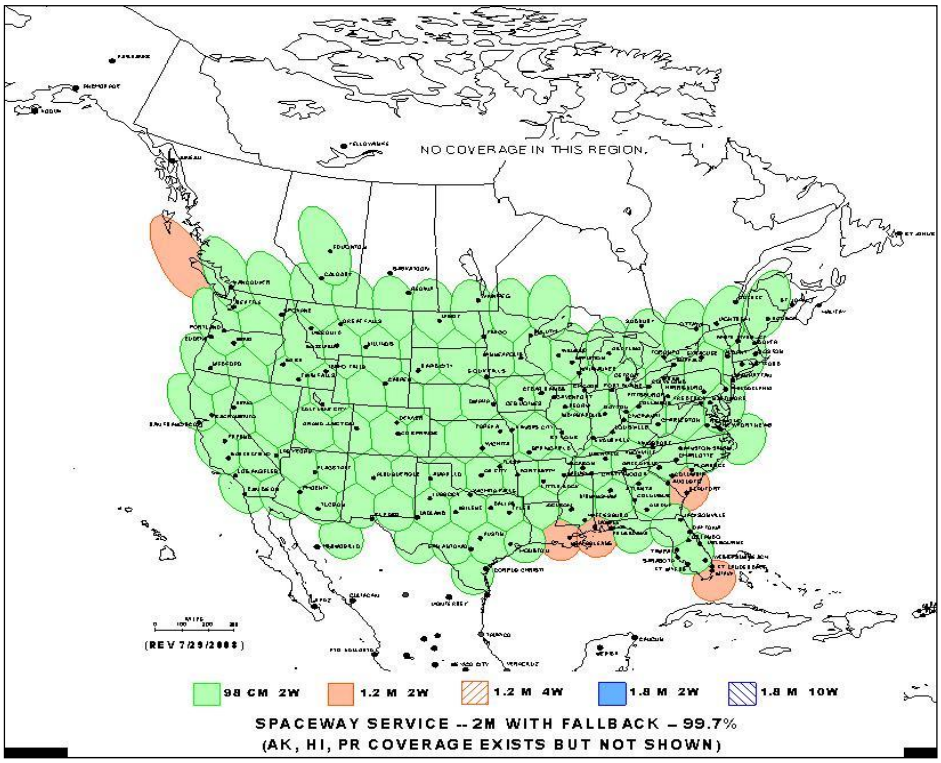
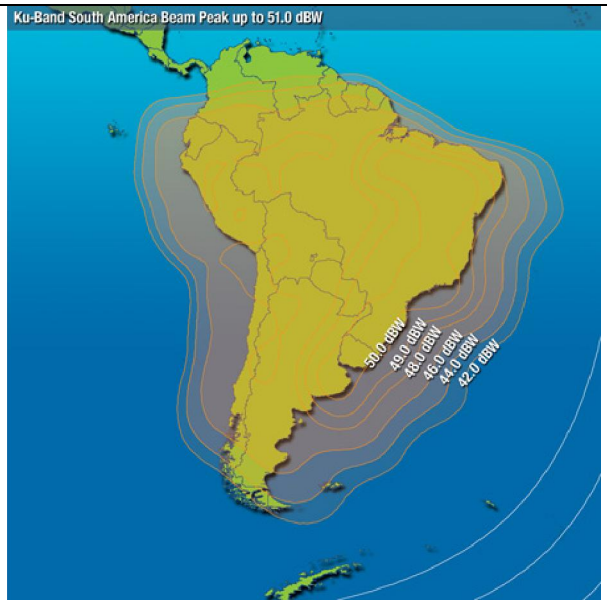


Figure 16. Ka-Band North America

B.4.5.3 South America Region

The South America region is defined by those satellites with a downlink in South America. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite maps in **Figure 17** are examples of the coverage that Hughes can provide for this region.

C-Band Sample Beam in Red



Ku-Band Sample Beam

Figure 17. C-Band and Ku-Band Sample Beams

B.4.5.4 Asia-Pacific Region

The Asia Pacific region is defined by those satellites with a downlink in Asia, Southeast Asia, or the Pacific Ocean. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite map in **Figure 18** is an example of the coverage that Hughes can provide for this region.

Figure 18. C-Band in Red and Ku-Band in Yellow

B.4.5.5 Africa Region

The Africa region is defined by those satellites with a downlink in Africa. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite map in **Figure 19** is an example of the coverage that Hughes can provide for this region.

Figure 19. C-Band in Red and Ku-Band in Yellow

B.4.5.6 European Region

The European region is defined by those satellites with a downlink in Europe. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite map in **Figure 20** is an example of the coverage that Hughes can provide for this region.

Figure 20. C-Band in Red and Ku-Band in Yellow

B.4.5.7 Indian Ocean Region

The Indian Ocean region is defined by those geostationary satellites that are positioned between 30 ° East and 100° East. Some of these satellites may also be included in the European, African, or Asia Pacific regions. These satellites often can provide interconnectivity between continents or regions. Hughes can provide satellite capacity on multiple satellites and from multiple satellite vendors for this region. The best and most cost-efficient satellite for the government customer will be determined based on the technical and coverage requirements provided by the customer. The satellite map in **Figure 21** is an example of the coverage that Hughes can provide for this region.

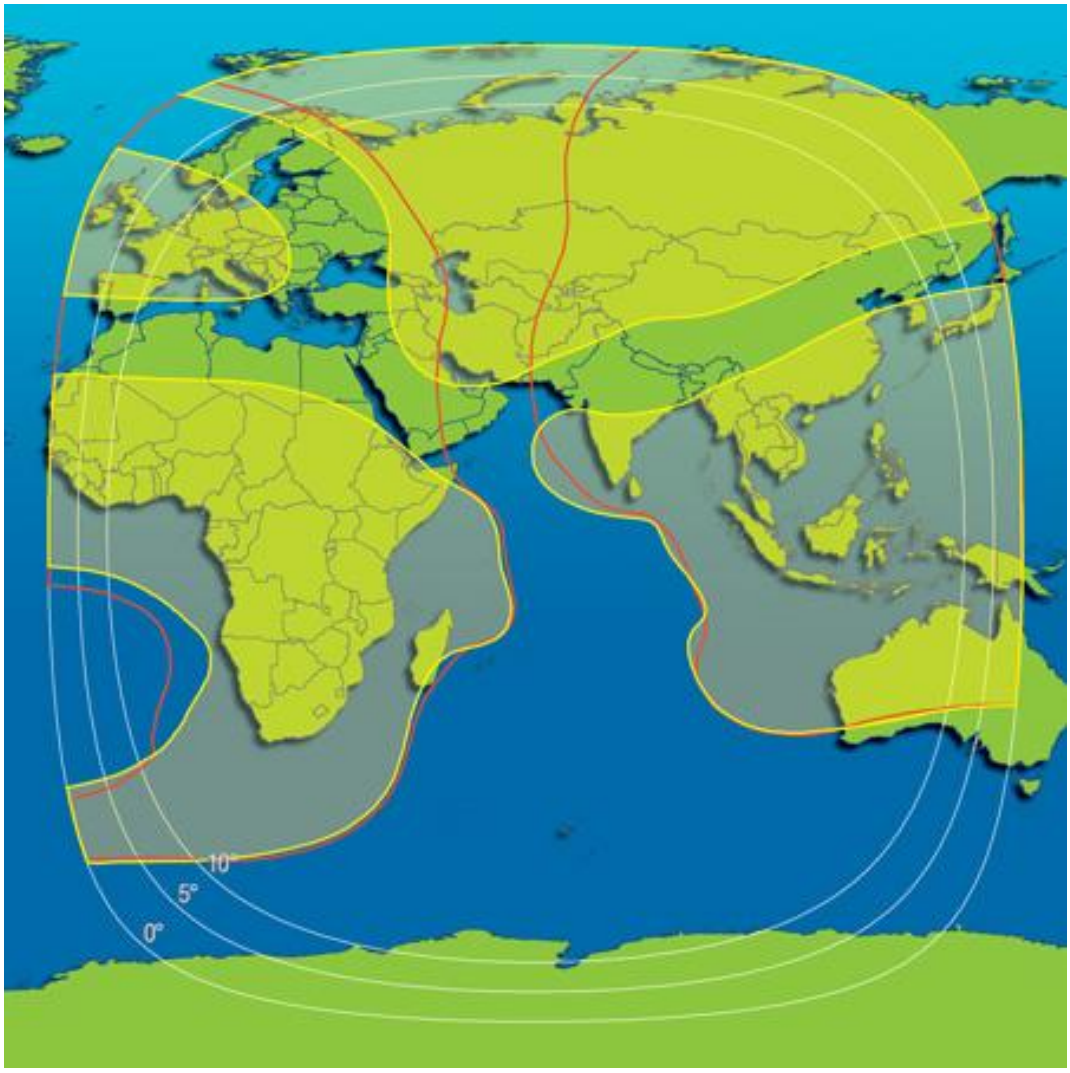


Figure 21. C-Band in Red and Ku-Band in Yellow

B.4.5.8 EMI/RFI Identification, Characterization, and Geo-Location

All of Hughes' satellite vendors share a common process to identify, analyze, and resolve radio frequency interface (RFI) cases. After the customer has notified Hughes or the satellite vendor of a problem, Hughes works with the vendor to analyze the characteristics of the RFI on the satellite to determine the type of interference. From the technical analysis of the RFI, the source may be identified and the party contacted to eliminate the interference. If this is unsuccessful or if the technical analysis indicates an unexpected type of carrier, geo-location efforts begin in order to identify the location of the interfering uplink. If the interfering source remains undetermined, a helicopter search for the source may take place.

Hughes has been involved with the creation, testing, and fine tuning of the RFI identification process with both Intelsat and SES World Skies. Hughes urges its satellite vendors to increase their capability and efficiency in quickly resolving RFI cases.

B.5 Network Management System

The satellite network is managed through a system developed by Hughes that provides the features necessary to operate a satellite network. This management platform allows hub operators and technicians to observe and manage all remote VSAT equipment attached to a network. Operators and technicians are provided screens that allow for the quick location of sites and automatic indication of failures. Both hub operators and help desk personnel may have access to the management platform.

Hughes manages, monitors, and controls its satellite communications operations 24/7/365. The main management area of the Hughes NOC is shown in **Figure 22.**

Figure 22. The Hughes Network Operations Center

B.6 Security

Like any major enterprise, the US Government needs to be assured that its data is transported securely. Hughes has designed its satellite system with security as one of its highest priorities. Hughes systems utilize AES with 128-bit key length as the bulk encryption algorithm.

The Hughes NOC includes a conditional access control (CAC) Server. All traffic sent across the outroute is encrypted, and the CAC server is responsible for determining which satellite terminal in a Hughes network can receive which packets from the Hughes outroute. The CAC server uses encryption keys distributed to the appropriate NOC components and the decryption keys distributed to the Hughes terminals. Each Hughes VSAT, at the time of manufacturing, has a unique master key burned into a secure chip. When traffic arrives at the IP Gateway, the destination IP address is found in a configuration file, and the serial number of the associated remote is extracted. This serial number is then converted into a satellite address and is also used to look up the encryption key from the table received from the CAC server. Subsequently, a satellite header is built using the encryption key, satellite address, IP packet length, and sequence number. This header is appended to the IP packet and shipped to the Satellite Gateway.

The Hughes VSAT that is listening for the satellite address will then attempt to decrypt the message using the decryption key it received previously from the CAC server. After successfully deciphering the message, the satellite header is stripped off and the IP packet is forwarded to the Hughes VSAT's IP handler.

B.7 Advanced Features

The following subsections describe some of the advanced features employed by Hughes systems that further enhance TCP/IP performance.

B.7.1 Enhanced Browser Performance

With more than 500,000 Internet subscribers in North America alone, Hughes has gained considerable experience with browser-based applications over the past several years. Based on the expectation of standardization on the use of IP and browsers, Hughes started the design efforts for the multimegabit delivery of IP data in 1995. Hughes recognized that organizations would need multi-megabit delivery to fully utilize the intranet application model with the next-generation applications. With the availability of satellite broadband, Hughes has spent the last several years working on integrated methods to improve the performance of the browser using a satellite network. The result of this work has been that the performance of browser-based applications over the network is comparable to, and in some cases better than, the performance achievable on terrestrial networks.

When a browser accesses a page, it opens a TCP session and requests the page. The page is returned and a list of objects on that page is provided. The browser then must open a session to retrieve each object. Because of the handshake required to open each session, pages with many objects result in a slower VSAT performance. To overcome this issue, Hughes has incorporated software in its systems, which locally terminates the TCP sessions so that only user data is transmitted across the satellite. This can significantly improve the performance of pages that have only a small amount of data or numerous objects. This performance-boosting software capability is referred to as the performance enhancing proxy (PEP).

A key differentiation between the Hughes solution and those from other vendors is that the PEP functionality is handled within the Hughes Services Appliance. This means that no software needs to be installed and configured on the remote computing platforms. The performance benefit extends to all TCP traffic, not just browser-based transactions.

B.7.2 Data Compression

Inherent in Hughes VSAT network components is the ability to apply data compression. For typical text files, a compression ratio of at 2:1 or better can be achieved. As part of PEP, Hughes VSAT includes V.44 stateful (also known as multi-packet mode) compression. V.44 is an ITU standardized compression technology based on Hughes patented LZJH compression algorithm. The stateful compression is able to take advantage of redundancy in all messages being sent instead of only redundancy within a message, thus providing significantly better compression ratios, especially for traffic such as HTTP GET requests where there are many common fields from message to message. Thus, it can provide a tremendous saving of bandwidth in both inbound and outbound directions.

B.7.3 VPN Automatic Dial Backup (VADB)

The VADB modem is a feature that allows Hughes systems to increase remote availability by automatically dialing in to either a local ISP number or an 800 number upon the loss of the satellite signal. The VADB modem sets up a VPN connection through an ISP back to the NOC. Data travels from the NOC to the user's data center via the existing backhaul and is transparent to both the remote user and the data center. The VADB modem is a standard feature in DW7700 models.

B.8 Availability

Hughes designs its networks to exceed 99.7% average annual network availability. Each site will be equipped with antennas and RF equipment sized to meet that target. Specific antenna sizes are determined on a site-by site basis. **Figure 23** shows a typical antenna sizing contour map for the US.

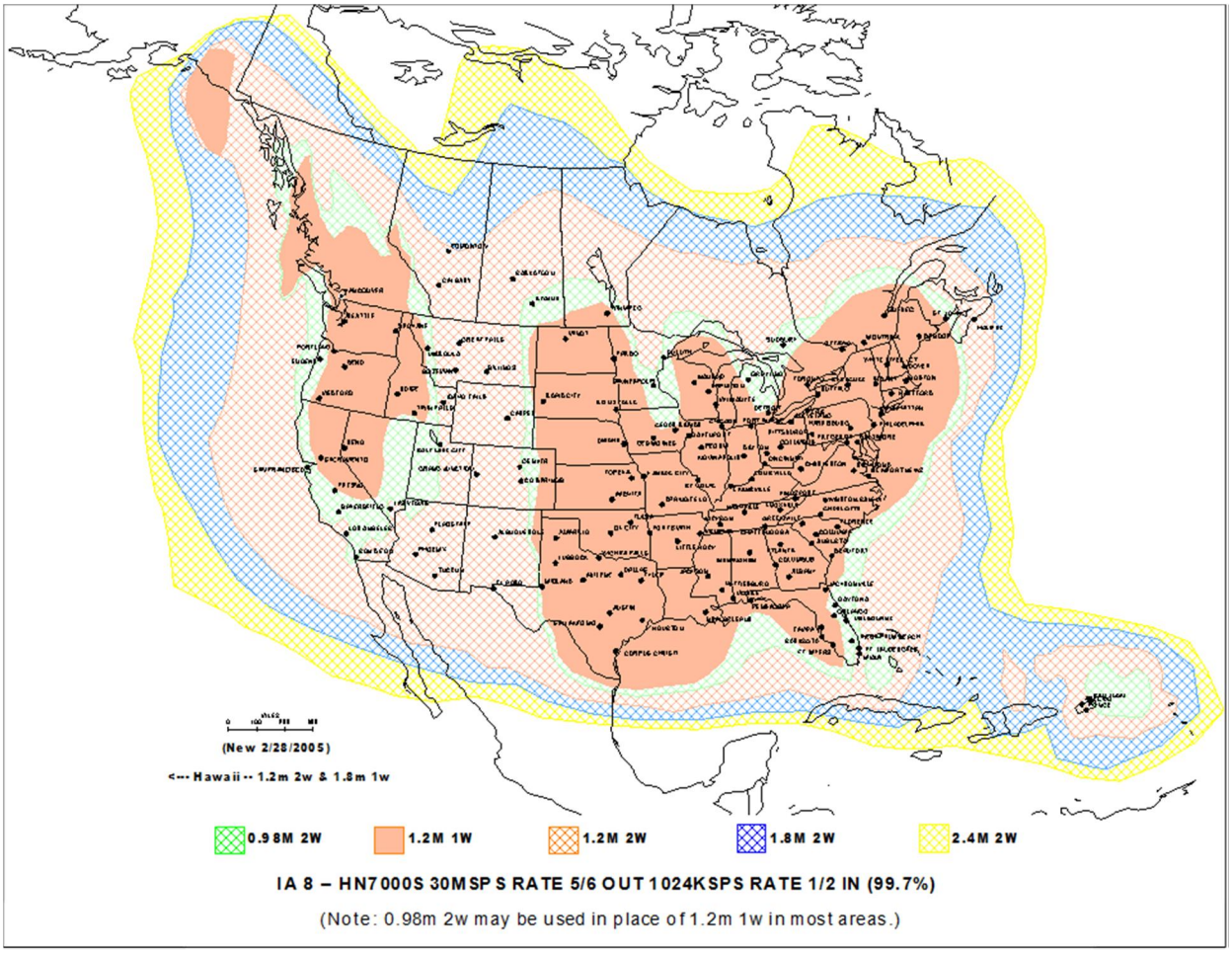


Figure 23. Typical Satellite Footprint Coverage Map

B.8.1 Service Coverage Regions

- Internet Service is offered in CONUS, Puerto Rico, and Hawaii.
- Private Network Service is offered in CONUS, Puerto Rico, and Hawaii.
- HX Service is offered in CONUS, Alaska, and Hawaii.

B.8.2 De-icing Guidelines

Based upon empirical weather data, Hughes recommends using active de-icing in locations experiencing at least 12 days per year of icing or freezing rain. **Figure 24** shows the recommended areas in North America for active deicing.

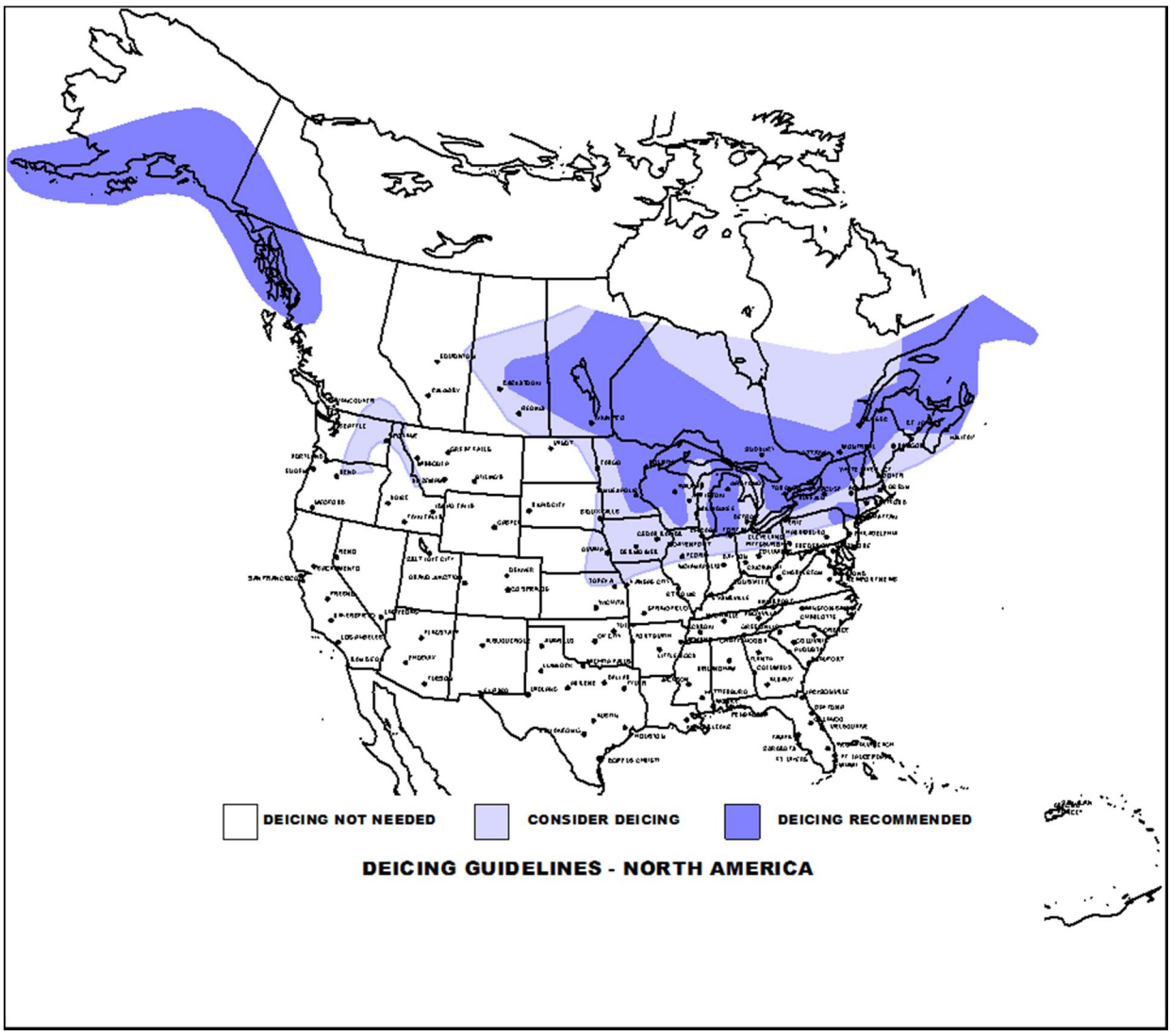


Figure 24. Deicing Guidelines for North America

B.8.3 Installation/Deinstallation/VSAT Services

The installation and deinstallation processes for a Fixed VSAT system, as described in Section B.2.2.1, consist of the following major steps.

1. **CUSTOMER INFORMS ONSITE PERSONNEL OF THE PLANNED INSTALLATION AND ARRANGES FOR ACCESS TO SITES. THE CUSTOMER PROVIDES THE REQUIRED INSTALLATION/DEINSTALLATION INFORMATION FOR THE SITES, INCLUDING:**

   a. Contact, Address, Telephone Number

   b. Alternate Contact, Address, Telephone Number

   c. Site Number, Address

   d. Building Manager, Address, Telephone Number

   e. Building Owner, Address, Telephone Number

   f. Such other information as Hughes may reasonably request

2. **FOR INSTALLATION ORDERS, HUGHES PERFORMS SITE SURVEYS AT SITES IDENTIFIED BY HUGHES AS REQUIRING SITE SURVEYS.**

3. **CUSTOMER OBTAINS NECESSARY LANDLORD APPROVALS.**

4. **FOR INSTALLATION ORDERS, HUGHES INSTALLS AND COMMISSIONS THE REMOTE TERMINAL EQUIPMENT.**

5. **STANDARD INSTALLATION TIMEFRAME IS 30 DAYS AFTER RECEIPT OF ORDER. EXPEDITED INSTALLATION TIMEFRAME IS 15 DAYS OR LESS. EXPEDITED VSAT INSTALLATION REQUIRES A SPECIAL IDENTIFICATION NUMBER (SIN) TO BE ORDERED SIMULTANEOUSLY WITH ORIGINAL ORDER.**

For a vehicle-mounted Mobile VSAT system as described in Section B.2.2.2 above, the customer will be responsible for the delivery and pickup of their vehicles to a Hughes-designated installation company that will install the Mobile VSAT system on the vehicle. Standard vehicle-mounted Mobile VSAT installation activities must be completed within 8 hours of total labor time. These activities will include system mounting, integration with PC at customer site, complete testing (ATP), and basic user training. Nonstandard installations include any special installation activities that take over 8 hours of total labor time (e.g., special rooftop mounting, cable routing, integration with local network components such as routers/ switches or video/VoIP applications, etc.) or any setup/testing with special applications. Two (2) weeks' notice is required before actual installation date.

B.8.3.1 Fixed VSAT Installation

Standard Enterprise installation applies to enterprise locations one to two (1-2) stories from the ground and includes:

- Antenna installation on an outside wall, roof, ground, or other approved structure with one of the following mounting options:
  - All nonpenetrating roof mounting options (appropriate mount for the antenna size)
  - Trimast wall mount
  - Ground pole mount up to approx. **8 ft. (approximately 2 ft. in ground, 5 – 6 ft. out of ground)**

  All antennas must be mounted a minimum of 5 ft. off the ground (from base of antenna) and out of the reasonable reach of small children. Wall mounts must not be mounted to surfaces or building materials that cannot support the wall mount (for example, stucco, aluminum, or vinyl siding).

- Single or dual intra-facility link (IFL) cable is run according to published Hughes Guidelines from antenna location to IDU location. For networks larger than 50 locations, a Customer Installation Specification will define the indoor equipment location.
- Install the indoor unit at designated location. The indoor unit will be located according to the Customer Installation Specification. The designated IDU location must be temperature and environmentally controlled for proper operation.

- Single or Dual IFL cable run (according to Hughes guidelines) from antenna to indoor unit. This assumes that the typical cable run will be less than 150 feet, based on the profile of the customer remote locations. For network implementations where greater than 30 percent of the locations are in large buildings requiring cable runs longer than 150 feet, additional charges will apply.
- Wall fish and wire mold as required.
- Cat 5 data cable, if required, and termination at labeled wall plates for all devices.
- The use of necessary tools, including laptop computer and appropriate commissioning software, to install, commission, test, and cut over to Hughes and customer systems.
- Grounding in accordance with Hughes FSB 1057C.
- Installation of weather seal-appropriate cable bushings for all cable points of entry.
- Ballast the mount according to Hughes ballast guidelines.
- Activation and commissioning of the system, including cutover of specified devices according to Customer Installation Specification.
- Comply with all Hughes Installation Quality Process Guidelines including signed and completed Installation Reference Sheet with Quality Checklist/Audit Form.
- Installation and activation of VADB service if ordered with the installation.
- Clean up site and remove any unnecessary boxes and materials.
- Antenna mounting options:
  - Nonpenetrating roof mount
  - Trimast wall mount
  - Ground pole mount (Limited to 30 percent of all of the customer's network)

  The Hughes installer will choose the type of antenna mount based on the specific details of the location. Network implementations that require more than 30 percent of the locations to have ground pole mounts, or for locations where customer requests a pole mount even though one is not required, additional charges will apply.

- All ground pole mount antennas will be installed a minimum of 5 ft. off the ground (from base of antenna) and out of reasonable reach of small children. Wall mounts will not be mounted to surfaces or building materials that cannot support the wall mount (for example, stucco, aluminum, or vinyl siding).

B.8.4 Fixed VSAT Deinstallation Description

Deinstalling an existing VSAT at a site is performed by a Hughes authorized technician who will:

- Deinstall the antenna and nonpenetrating mount and terminate the IFL cable at the point of entry (POE).
- Deinstall the radio transmitter assembly.
- Remove the cable from POE to the antenna system.
- Deinstall the IDU as described in Section B.2.2.
- Pack all of the above components in a container for safe transport.

B.8.5 Fixed VSAT Relocation/Move Description: Local

Through this service, Hughes' authorized installer removes the VSAT from an existing site and moves it to and installs it at a new site within the same city and/or 100 miles from the first site. The Hughes technician visits the customer's existing site and performs the deinstallation process as described in the previous section. The installer then packs the deinstalled VSAT and travels to customer's new site where it is installed as described in Section B.8.1, above.

B.8.6 Fixed VSAT Relocation/Move Description: Nonlocal

Through this service, Hughes' authorized installer removes the VSAT from an existing site, packs it, and ships it for installation at a new site that is in a different city or state. The Hughes technician visits the customer's existing site

and performs the deinstallation process as described in Section B.8.1. The installer then packs the deinstalled VSAT and ships it to customer's new site where another installer will install it per Section B.8.1, above. Depending on the time required for the actual shipment of the deinstalled VSAT, the new installation may occur up to 21 days from the date of the deinstallation.

B.8.7 DSL Standard Installation

A standard installation is described below:

- Installation of DSL router or modem.
- Shared-line service installation will include a splitter at the network interface device (NID) and a dedicated twisted pair running to the location of the router.
- Dedicated-line service installation includes installing dedicated copper twisted pair if needed.
- Dedicated twisted pair inside wiring up to 100 ft is included; additional wiring will be charged if > 100 ft
- Wall fish and wire mold as required.
- Cat 5 data cable, if required, and termination at labeled wall plates for up to two (2) devices.
- The use of necessary tools, including laptop computer and appropriate commissioning software, to install, commission, test, and cut over Hughes and customer systems.
- Activation and commissioning of the system, including cutover of specified devices according to Customer Installation Specification.
- Comply with all Hughes Installation Quality Process Guidelines including signed and completed Installation Reference Sheet with Quality Checklist/Audit Form.
- Clean up site and remove any unnecessary boxes and materials.

In the event that service is terminated prior to the end of the 12-month term, an early termination fee will apply.

B.8.8 Installation Training

The Hughes Technical Training Services Group, located in Gaithersburg, Maryland, provides technical instruction on all Hughes products.

B.8.8.1 Facilities

The Technical Training Services facilities are modern, multifunctional training environments. Training rooms are equipped with the latest system components for all major Hughes product lines. The training area includes classrooms, training labs, and other amenities, with individual training rooms seating between 6 to 12 people. Facilities include training rooms equipped with a glassed-in equipment lab and are designed specifically around system requirements. Some training courses can also be offered at a customer location.

B.8.8.2 Personnel

Hughes' Technical Training Services Group consists of professional trainers who instruct customers on Hughes products utilizing a multitude of independent courses. A training registrar is available to take customer course reservations.

B.8.8.3 Courses

Hughes offers courses that are tailored for various levels of technical involvement. They range from overview courses to network operator courses. Most classroom courses range from three to five (3-5) days. There is also a highly detailed network operator's course that lasts 10 days. Hughes-hosted courses are provided on a regularly scheduled basis.

Hughes offers training classes related to the equipment used to operate and maintain the network and covering the specific services procured by each agency. Typical modules might include Overview, Features, System Architecture, Commissioning, Hughes Support Structure, Basic Troubleshooting, How to Use Knowledgebase Tools, How to Use Vision Network Management System, and Frequently Asked Questions (FAQs).

At the Hughes training center, customers and employees learn the technical and operational aspects of Hughes products and systems. The department offers multiple courses on all of the major company product lines. With

adequate advance notice, special course sequences can be designed. In addition, global customer site delivery of training is an option.

B.8.8.4 Web-based Training

Hughes also offers a Web-based, self-paced training course for the operation and maintenance of the Hughes VSAT networks and applications:

- Training is designed for an individual as "train the trainer".
- Training is self-paced. Bookmarks can be set.
- Testing is periodic for students to gauge their understanding level.
- Training modules are updated frequently to include enhancements or other changes.
- Training is specific to a product, enhancement, or tool.

Customers are presented with the training that is appropriate for their environment.

B.8.8.5 Training Modules and Sample Courses

Training modules are developed for all contracts and projects and may include such topics as:

- Satellite Overview
- Satellite Features
- Satellite Commissioning
- Hughes Support Structure Overview
- Satellite System Architecture
- Basic Troubleshooting
- How to Use Knowledgebase Tools
- How to Use Vision Network Management System
- FAQs

B.8.8.5.1 Sample Courses

- Network Sizing
- NOC Routine Fundamentals
- Introduction to Satellite
- Satellite Remote Installation and Operation
- Satellite NOC Operations and Maintenance
- Satellite NOC Routine Fundamentals
- Satellite Network Sizing
- Satellite Voice Installation and Operations

B.8.8.5.2 Certification

Hughes Technical Training Services has been recognized by the International Association for Education and Training ((IACET), enabling participants to earn Continuing Education Units (CEUs) towards certification for the courses Hughes provides.

B.9 Introduction

Hughes Managed Service offerings include terrestrial components that deliver robust, reliable, and secure broadband network infrastructure capable of providing high-performance end-to-end services, just as the satellite components do. Hughes terrestrial service offering is essentially a star topology-based, wide-area networking solution that is composed of four elements as described below. First is a centralized hub, or NOC, which is the same NOC supporting the satellite components of the network. Second are the remote devices that allow remote client hosts to communicate with the server hosts at the customer's data center. The third component is the terrestrial "cloud." The fourth and final component is a terrestrial backhaul interconnecting the customer's data center to the Hughes NOC. The backhaul can be dedicated or use shared infrastructure such as the Internet or VPN tunnels through the Internet.

Figure 25 shows Hughes' terrestrial-based network's simple architecture and end-to-end connectivity. A single NOC will support all sites within the United States, both satellite and terrestrial.

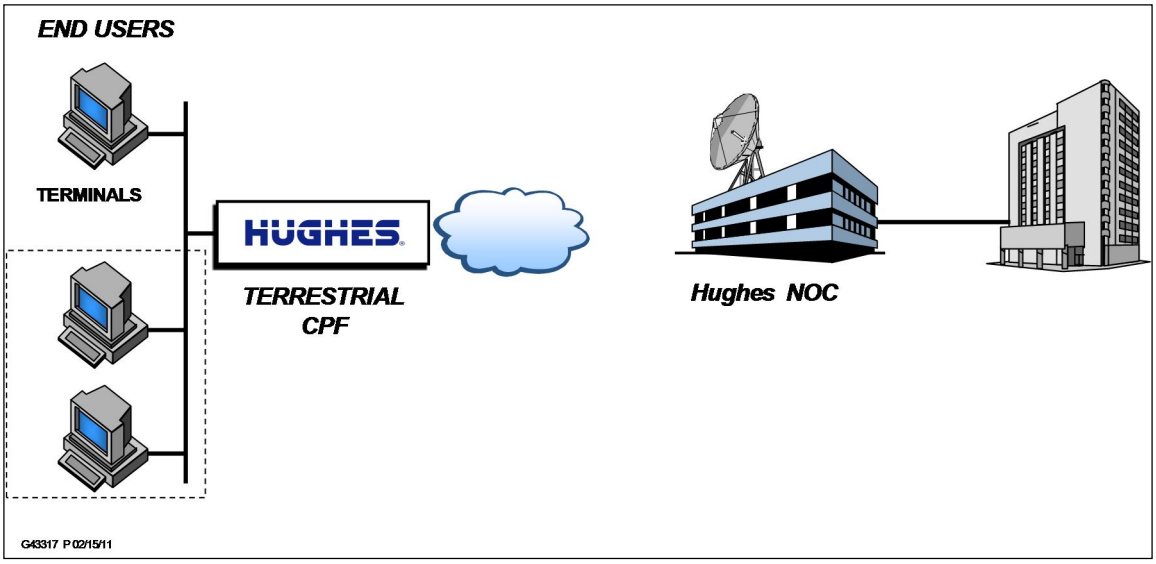


Figure 25. Terrestrial-based Network Overview

B.10 Hughes Network Elements

As illustrated in **Figure 26**, Hughes systems are composed of four basic elements:

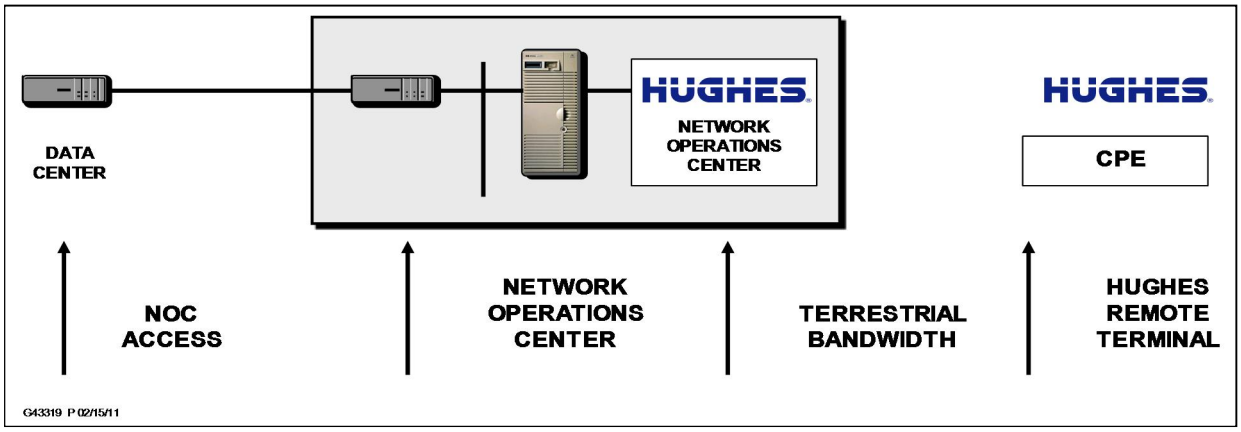


Figure 26. Hughes Network Elements

- **NOC Access:** Options for connectivity between the customer data center or headquarters and the Hughes NOC included a private line (T1 circuit, frame relay, etc.), open Internet, or Hughes-provided Managed VPN tunnel through the Internet.
- **Hughes NOC:** A Germantown, Maryland-based teleport facility and a Las Vegas, Nevada-based facility providing connectivity to all locations within the United States.

- **Hughes Terrestrial Bandwidth:** Provides access between remote sites and the NOC. All communications between the NOC and Hughes terrestrial sites are transmitted via the terrestrial infrastructure.
- **Hughes Terminals:** The customer premises equipment (CPE) (i.e., DSL routers) installed at end-user locations.

B.11 Hughes Terrestrial Remote

The Hughes broadband VPN service is managed through CPE provided by Hughes called the HN770S-R router. The HN7700S-R connects to a modem in order to transmit/receive traffic over the broadband access network (for example, DSL, cable, wireless, etc.). The modem serves as a Layer 2 bridge and has no routing functionality. The HN7700S-R provides all the Layer 3 routing, security, and management functions.

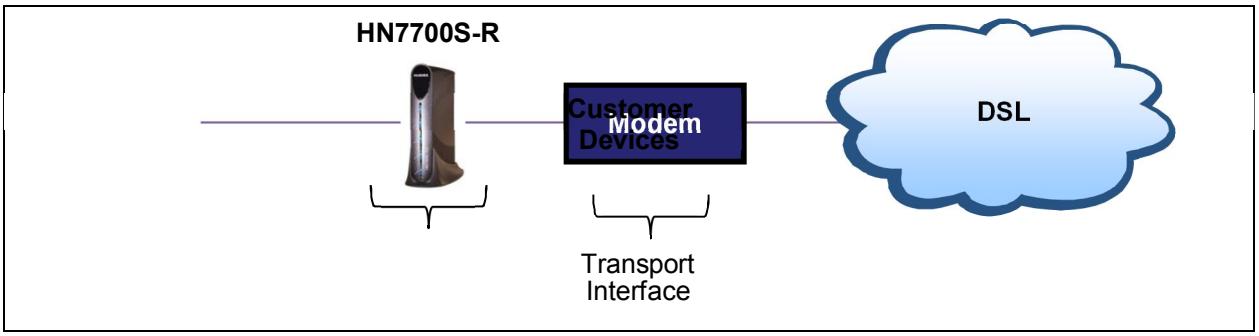


Figure 27. Site Level Configuration

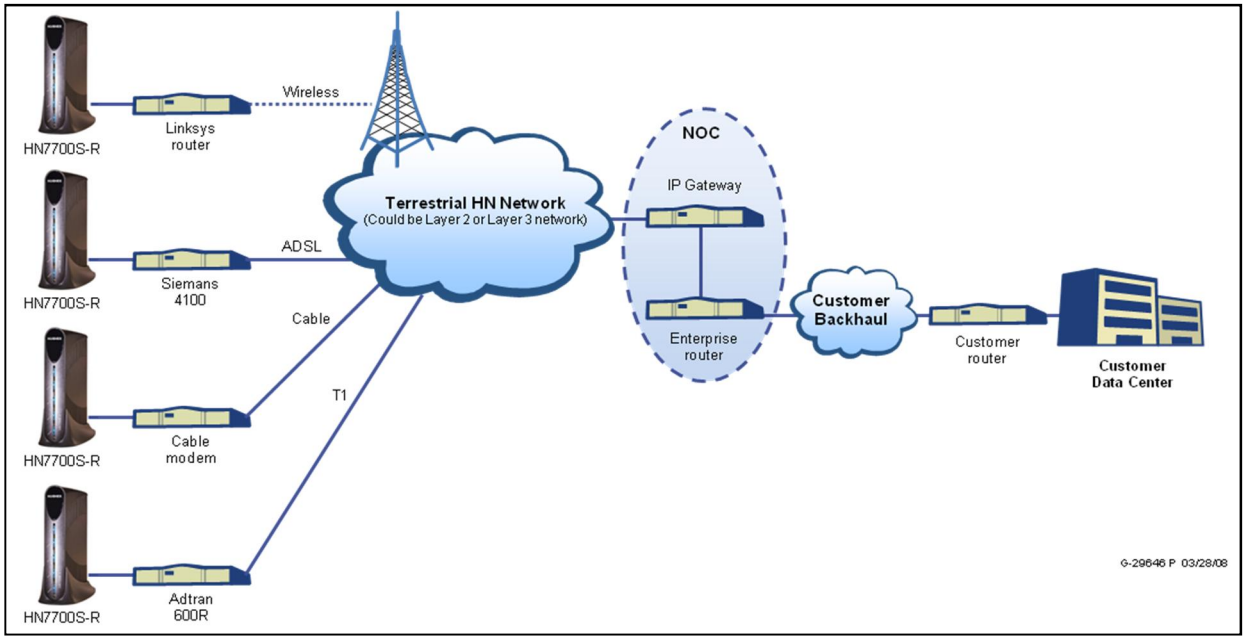


Figure 28. Network Level Configuration

It is important to understand that the HN7700S-R is not an Internet access router. Rather, it is a secure tunneling router that uses the Internet as a transport. The router's Access Control List (ACL) enforces the rule that all traffic is sent over the AES IPSec tunnel. The HN7700S-R must always interoperate with and connect to a Hughes Terrestrial Gateway hosted at the Hughes NOC. Between both devices, Hughes establishes, maintains, and monitors an AES IPSec tunnel. Within the AES IPSec tunnel, Hughes establishes, maintains, and monitors a PEP tunnel. The PEP tunnel is used to accelerate the traffic from the CPE to the Hughes NOC and is part of the Hughes WAN Optimization technology, which optimizes bandwidth and application performance. Also, all management traffic is transmitted within the AES IPSec tunnel (inclusive of ICMP pings that are used to determine up/down status of the remote site). This ensures that there is no out-of-band attack vector through which an attacker could compromise the network via the CPE's WAN connection. Only packets that are successfully decrypted and authenticated may be

consumed by the management software. In addition, a Hughes-proprietary Software Download (SDL) protocol is used to communicate configuration information.

By adhering to industry information assurance and security standards such as Payment Card Industry (PCI), not only does Hughes provide strong protection and security for customer traffic, but the processes and procedures used for implementation, monitoring, and change management provide for continuous improvement. The end result is a highly secure and reliable managed broadband VPN service for both enterprise and government customers.

B.12 Hughes DSL Services

Hughes offers a range of Terrestrial Service Plans. DSL plans are listed in **Table 13**.

Table 13. DSL Service Plans

Service Plan	Upstream Access Speed	Downstream Access Speed
ADSL 128/1.5	128 kbps	1.5 Mbps
ADSL 256/1.5	256 kbps	1.5 Mbps
ADSL 384/1.5	384 kbps	1.5 Mbps
ADSL 768/1.5	768 kbps	1.5 Mbps
ADSL 384/3.0	384 kbps	3.0 Mbps
ADSL 512/3.0	512 kbps	3.0 Mbps
ADSL 768/3.0	768 kbps	3.0 Mbps
ADSL 768/6.0	768 kbps	6.0 Mbps
Dedicated Loop ADSL 384/1.5	384 kbps	1.5 Mbps
Dedicated Loop ADSL 384/3.0	384 kbps	3.0 Mbps
Dedicated Loop ADSL 768/1.5	768 kbps	1.5 Mbps
Dedicated Loop ADSL 512/3.0	512 kbps	3.0 Mbps
Dedicated Loop ADSL 768/3.0	768 kbps	3.0 Mbps
Dedicated Loop ADSL 768/6.0	768 kbps	6.0 Mbps
IDSL 144	144 kbps	144 kbps
SDSL 192	192 kbps	192 kbps
SDSL 384	384 kbps	384 kbps
SDSL 768	768 kbps	768 kbps
SDSL 1.1	1.1 Mbps	1.1 Mbps
SDSL 1.5	1.5 Mbps	1.5 Mbps
T1 point-to-point 128	128 kbps	128 kbps
T1 point-to-point 256	256 kbps	256 kbps
T1 point-to-point 384	384 kbps	384 kbps
T1 point-to-point 512	512 kbps	512 kbps
T1 point-to-point 768	768 kbps	768 kbps
T1 point-to-point 1044	1044 kbps	1044 kbps
T1 point-to-point 1544	1544 kbps	1544 kbps

Users activated under these plans receive “commercially reasonable effort” performance per the access speeds indicated in the table. No SLAs or SLOs apply to any users activated under these service plans. These service plans require private networking components such as dedicated backhaul DSL services are available for shared-line and dedicated line implementations. SDSL and IDSL services are on dedicated lines. All DSL services, including expanded coverage, require a prequalification on a per-site basis to determine if a particular service plan is available for a site.

Business Dialup Internet Access

Business Dialup Internet Access plans are available in conjunction with the order of private network solutions that include DSL and/or satellite services. The Business dial-up plans are as follows.

- Dial-up Unlimited Use – includes unlimited access time.
- Dial-up Usage-based – includes 5 hours per month. A surcharge applies for usage beyond the allowance.
- Dial-up Pooled Usage – includes a pool of 150 hours to be used by any dial-up user in the network. A surcharge applies for usage beyond the allowance.

A toll charge applies on all plans where local call connectivity is not available. A dial-up modem is not included in the service plans and is assumed to be provided by the user.

Hughes installs and commissions the DSL Remote Terminal Equipment.

DSL Installation Description

Standard installation applies to government locations and includes the following:

- Installation of DSL router or modem.
- Shared-line installation will include up to four (4) filters to be used on the voice service line.
- Dedicated-line install includes installing a dedicated twisted pair.
- Wall fish and wire mold as required.
- Cat 5 data cable, if required, and termination at labeled wall plates for up to two (2) devices.
- The use of necessary tools, including laptop computer and appropriate commissioning software, to install, commission, test, and cut over Hughes and customer systems.
- Activation and commissioning of the system, including cutover of specified devices according to Customer Installation Specification.
- Compliance with all Hughes Installation Quality Process Guidelines including signed and completed Installation Reference Sheet with Quality Checklist/Audit Form.
- Installation and activation of Virtual Auto Dial Backup (VADB) service if ordered with the installation.
- Clean up site and remove any unnecessary boxes and materials.

B.12.1 Network Management System

The terrestrial network is managed through the same system developed by Hughes that manages the satellite network. This management platform allows hub operators or technicians to observe and manage all remote equipment attached to a customer network whether it is satellite or terrestrial based. Operators or technicians are provided screens that allow for the quick location of sites and automatic indication of failures. Both hub operators and help desk personnel can have access to the management platform.

Hughes manages, monitors, and controls its communications operations 24 hours a day, 7 days a week, 365 days a year.

B.12.2 Security

Hughes terrestrial network solutions include private terrestrial infrastructure and/or Internet-based infrastructure with VPNs from remote to hub or customer data center. In either case, data is secured from source to destination.

B.12.3 Installation Services

The installation process for a terrestrial remote terminal consists of largely the same steps as those for a satellite terminal installation.

1. Customer informs onsite personnel of the planned installation and arranges for access to sites. Customer provides the required installation information for the sites, including:
    a. Contact, Address, Telephone Number
    b. Alternate Contact, Address, Telephone Number
    c. Site Number, Address
    d. Building Manager, Address, Telephone Number
    e. Building Owner, Address, Telephone Number
    f. Such other information as Hughes may reasonably request

C DIGITAL SIGNAGE SOLUTIONS

C.1 Solution Overview

Hughes Digital Bulletin Board Services consist of an end-to-end solution enabling controlled distribution and display of video and text program content at individual sites equipped with the appropriate content storage and display equipment.

The system enables the remote sites to display both headquarter-specific content and local site-specific content. The content will be uploaded by and distributed to all sites by the customer. The site-specific content will be provided by the individual site personnel and will be input by the content owner or their designee via a Web interface designed for their direct use. A provision will be made to enable the customer to review and approve any site-provided content prior to display of such content.

Each remote site will be equipped with a digital media player (the "Equipment") that will automatically receive content directed to it and will automatically play the content continuously. The customer is responsible for providing the flat screen TV. However, at the customer's request, Hughes will provide and install the TV on a per-quote basis.

The Hughes-provided media player will incorporate a Digital Bulletin Board software client that will enable a TV screen to display a combination of the following:

- Video content
- Static images
- Scrolling texts
- RSS feeds

The Digital Bulletin Board Service assumes that a Wide Area Network (WAN) connection to the property is already in place to provide connectivity to the digital media player to receive its content by way of the Hughes Network Operations Center (NOC). If the WAN is not provided by Hughes, the Customer is responsible for providing the connectivity to the Hughes NOC.

Hughes offers various types of Digital Bulletin Board solutions including customization based on Government Agency requirements.

- Hosted Digital Bulletin Board
- Non-Hosted Digital Bulletin Board
- Touch Screen Digital Bulletin Board

C.2 Hughes-Hosted Digital Bulletin Board

Hosted Digital Bulletin Board is suitable for the agency that does not have sufficient IT personnel to support the media network and take over full control of content creation, management and upload of the content. This solution is also a best for the agency that wants to gain their knowledge experiences in the digital media world with low upfront costs.

Hughes hosted Digital Bulletin Board package consists of:

- Commercial LCD HDTV
- Media player (SST-1000)
- TV encoder (Slingbox) – optional
- Annual software maintenance of SST-1000

Professional installation, installed on a sheetrock wall with wall mount media player compartment and necessary cabling, Up to 100' of Ethernet cable, with up to 6' of HDMI Cable, and a USB-to-serial adapter.

- 12 months Tier 1 customer support
- 12 months hosted service
- Next business day onsite field maintenance for SST-1000
- Access to Hughes Portal to upload, create and manage the content
- Requires Internet access in order to connect to the Hughes Digital Bulletin Board host server

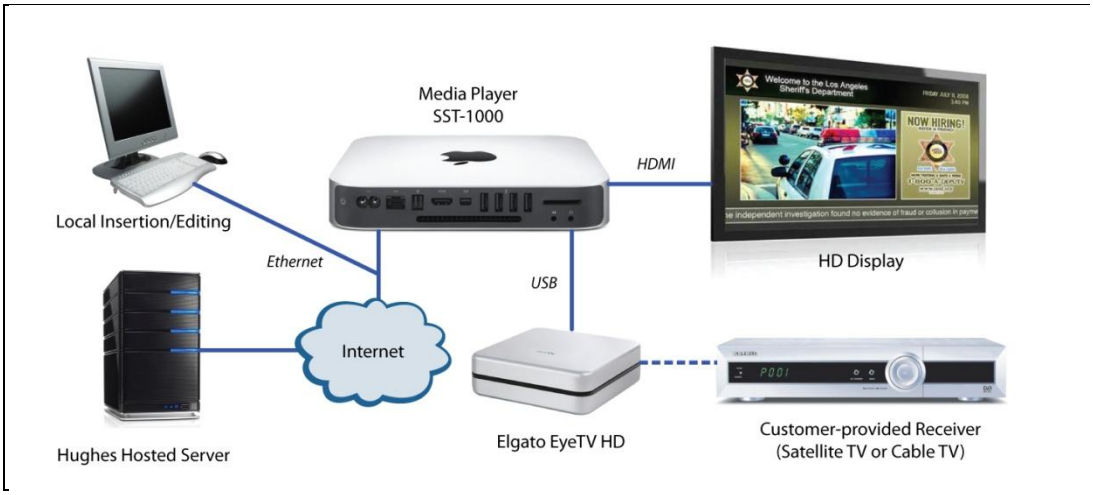


Figure 29. Non-Hosted Solution

C.3 Hughes Non-Hosted Digital Bulletin Board

Non-Hosted Digital Bulletin Board is suitable for the agency that wants to take full control of content creation, management, and upload and has sufficient IT personnel to support the media network.

Hughes Non-Hosted Digital Bulletin Board Solution consists of:

1 Digital Bulletin Board Server

   a. MediaGate server (up to 50 players)
   b. Annual software maintenance for server
   c. Professional installation of MediaGate server
   d. Professional training, configuring, background and template creation, and testing

2 Non-Hosted Digital Bulletin Board

   a. Commercial LCD HDTV
   b. Media Player (SST-1000)
   c. TV encoder (Slingbox) – optional
   d. USB-to-serial adapter
   e. Annual SW maintenance SST-1000
   f. Professional installation, installed on a sheetrock wall with wall mount, with media player compartment and necessary cabling, with up to 100' of Ethernet cable, up to 6' of HDMI cable, and a USB-to-serial adapter

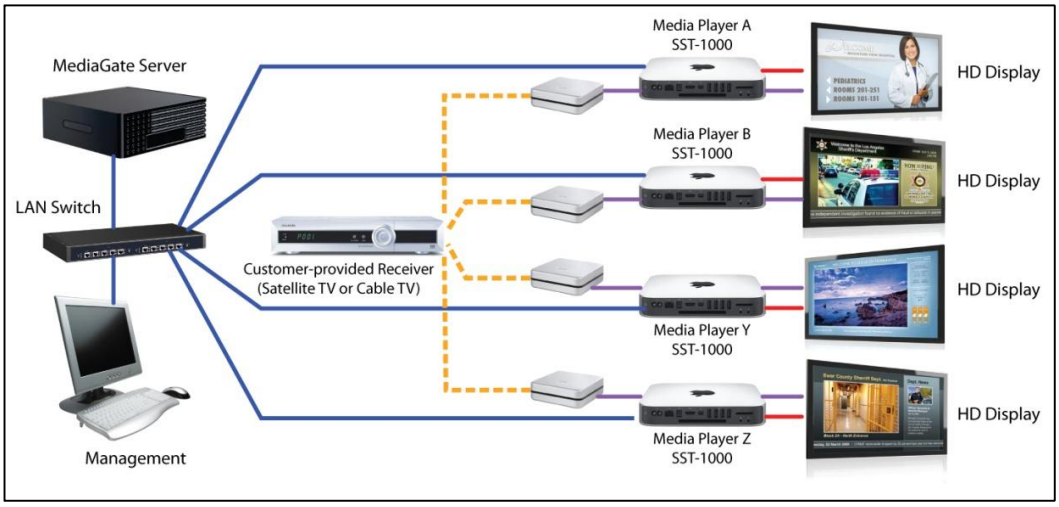


Figure 30. Nonhosted Solution

Sample of a Screen Layout Usage – Non-Interactive:

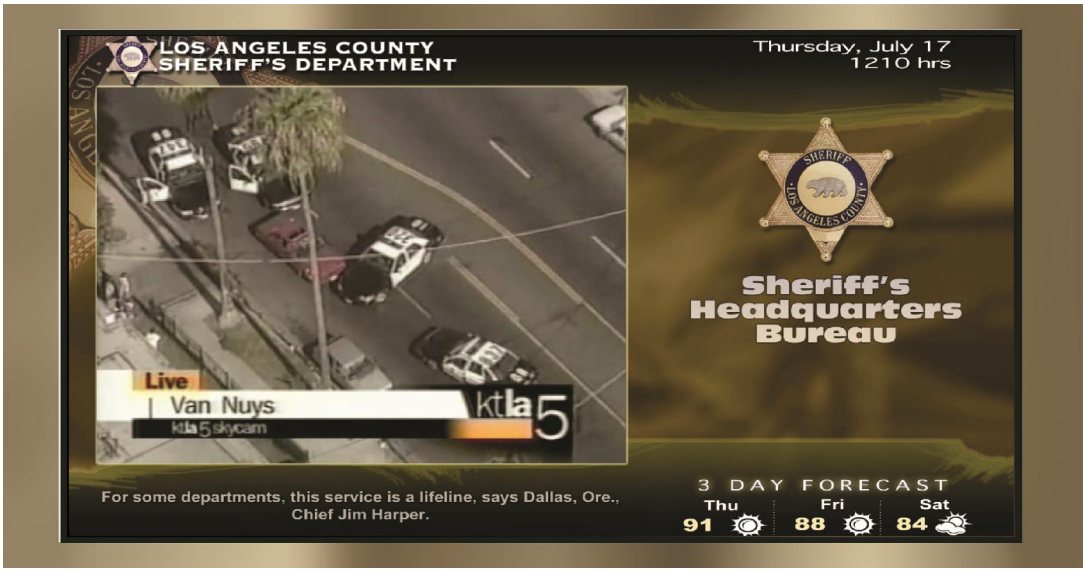


Figure 31. Non-Interactive Screen Layout

- **Top Bar:** Used for property identification, date/time, etc.
- **Left Panel:** Used for local property images or local advertising
- **Center Panel:** Used for live TV feeds
- **Upper Right Panel:** Used for local weather feed
- **Bottom Right Panel:** Used for local announcements, promos, etc.
- **Bottom Bar:** Used for RSS feeds (headline news, welcome announcements, etc.)

C.4 Hughes Touch Screen Digital Bulletin Board

Hughes Touchscreen Digital Bulletin Board Solution can be used with both Hosted and Nonhosted solution as additional benefit.

Hughes Touchscreen Digital Bulletin Board Solution consists of:

- Touchscreen Commercial Display
- Kit, Hughes, SST-1000
- Annual Software Maintenance of SST-1000

- Professional installation, installed on a sheetrock wall, with wall mount with media player compartment and necessary cabling up to 100' of Ethernet cable
- Up to 6' of HDMI Cable, USB-to-serial adapter
- 12 months Tier 1 Customer Support
- 12 months hosted service
- Next business day onsite field maintenance for SST-1000
- Access to Hughes Portal to upload, create, and manage the content
- Requires Internet access in order to connect to the Hughes Digital Bulletin Board host server

Interactive Touchscreen layout contains a Title Bar, two RSS feed panels, two touch-enabled multi-purpose panels, and a local content panel.

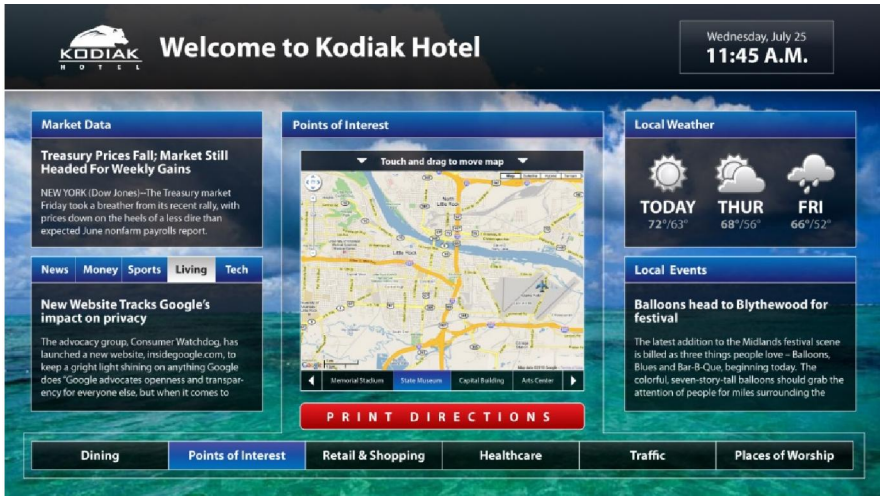


Figure 32. Interactive Digital Concierge Screen Shot

Suggested Screen Layout Usage – Non-Interactive

- **Top Bar:** Used for property identification, date/time, etc.
- **Top Left Panel:** Used for RSS feeds (e.g., Stock Market data)
- **Bottom Left Panel:** Used for various information-based RSS feeds
- **Top Center Panel:** Used for Google maps and custom Web pages (local Ads)
- **Upper Right Panel:** Used for local weather feed
- **Bottom Right Panel:** Used for local announcements, events, agendas, etc.
- **Bottom Bar:** Used for RSS feeds (headline news, welcome announcements, etc.)

C.5 Hughes Hosted Digital Bulletin Board Core Components

Content Manager:

Hughes MediaGate Enterprise Server (MGS) is the central storage, distribution, and management solution used for communicating, controlling, and distributing content to remote media players.

The Content Manager can reside at the customer site or reside within a Hughes NOC. The Hughes Digital Bulletin Board NOC components will be deployed in a fully redundant manner.

Media Player:

Hughes SST-1000 (Mac Mini) is an HD MPEG-2/MPEG-4 media playback device. Each media player can deliver unique content providing flexibility and control over what and when content is displayed.

TV Encoder

The Slingbox or equivalent encoder is used to encode live TV signals, making it available for display within a digital bulletin board panel.

C.6 Hughes Learning Management

Hughes Learning Portal is a learning management system (LMS) that is owned, developed, and maintained by Hughes. The Hughes Learning Portal is a fully-hosted LMS that will not require IT resources from the government agency.

Hughes Learning Portal is an easy-to-use eLearning solution that delivers and tracks training for employees, partners, and agencies. The simple interface makes it easy to store, manage, deliver and track training and communication, such as new employee orientation, certification, product training, etc., so the Agency can achieve a quick and measurable return on investment. It is ideal for small and medium agencies, as well as departments within large agencies. Unlike other LMS, Hughes Learning Portal offers easy training delivery and full reporting capabilities at a great value – around $1/user/month – backed by Hughes, a proven technology company you can rely on to support your training program for years to come.

Hughes Learning Portal is available in two different pricing models. The **Data Transfer model** provides unlimited users with the ability to purchase additional per-month data transfer separately. Buyers of this model typically have over 500 users, but only expect a small percentage of those users to access the Learning Portal each month, so their data transfer needs are low.

Per User model provides unlimited data transfer with the ability to purchase additional users separately. Buyers of this model typically have less than 500 users but expect a high percentage of those users to access the Learning Portal each month, so their data transfer needs are high.

Base Product Elements:

	Per User Model	Data Transfer Model
Users	500	Unlimited
Telephone Support	Unlimited	Unlimited
Email Support	Unlimited	Unlimited
Live 1x1 Training	Unlimited	Unlimited
Data Storage	100 MB	5GB
Data Transfer	Unlimited	5GB
Content Type	All File Types	All file Types
Classroom Tracking	Unlimited	Unlimited
Create Quizzes	Unlimited	Unlimited
Create Surveys	Unlimited	Unlimited
Custom URL	Yes	Yes

Additional Product Options:

- Web Services – Through a programmatic XML interface, the administrator can bulk export raw data from the Learning Portal into other systems.
- Single Sign-On – Creates a seamless user experience by instantly providing secure pass-through access from your corporate Website to your Hughes Learning Portal, using your Agency's existing user accounts.
- Private Branding (Level 1) – Removes all Hughes branding from the Learning Portal, leaving a clean environment for agency users.
- Co-Branding (Level 2) – Removes all Hughes branding from the Learning Portal environment and adds a Powered-by logo with your agency name on every page.
- Additional Users – Additional seats can be added to the system in increments of 250 as your needs grow.
- Additional Data Transfer – Additional data transfer can be added to the system in increments of 3 GB as your needs grow.

Hughes Learning Portal Features and Benefits:

Fast and Flexible

- Fast and Scalable Implementation – Go live in minutes
- Free Support – Access our world-class support team via telephone or email at no cost
- Solution Flexibility – No set-up or termination fees
- Flexible Content Assignment – Choose exactly who has access to specific content, whether by user, group, or everyone
- SCORM Content – Use any SCORM-compliant authoring tool such as Hughes Presenter
- Non-SCORM Content – Use any type of file including Word, Excel, PPT, PDF, and more
- Multiple Languages – Learners can access the system in their native language
- Student Forums – Allow students to discuss learning topics in either a moderated or non-moderated format

Web Based

- High Security – Your private-branded secure LMS portal is completely hosted by Hughes
- Entirely Web Based - No need to install extra software or plug-ins
- Anywhere, Anytime Access - Allow users to access training 24/7 or at specific times
- One-Click Upload of Content - Upload content directly from Hughes Presenter in just one click
- Single Sign-on - Take advantage of the optional single sign-on module for Intranet integration

Customizable

- Individual Learning Paths - Create custom learning paths for users, depending on needs
- Custom User Permissions - Set user permissions from standard or custom roles
- Custom URL - Set up your branded Hughes Learning Portal to work as part of your own domain name so your customers and employees feel like they are always on your website
- Multiple Brands - Customize the site using multiple brands within the same system
- Customizable Interface - Dynamically change the look and feel of the portal to fit your corporate identity or website

Reporting

- Managerial Reporting - Give managers access to reporting that is restricted to managed users
- Reporting Dashboard - Provides a high-level graphical view of how the system is being used
- Powerful Custom Reports - Real-time reports allow you to monitor & track user progress & performance as well as completion rates
- Detailed Student Transcripts - Provide student transcripts with comprehensive learning history
- System Notifications - Automatically notify users when new content is available
- Quiz and Survey Authoring - Easily create quizzes and surveys for evaluation and reporting

Tracking

- Instructor-Led Tracking - Keep all learning records in one system, whether the training is on-line or live. Includes the ability to schedule classes, register users, print class rolls, and track attendance
- Webex Integration - Schedule and register users for Webex sessions, all from within Hughes Learning Portal. Attendance data is then automatically saved for reporting purposes
- Certification Management - Automatically create certificates for students upon completion. Automatically manage training that must be completed annually
- Built-In Assessments - Create assessments with multiple types of questions including True/False, Multiple Choice, Multiple Select, Ranking, and Matching. Advanced features include the ability to randomize and pool questions

D REMOTE MAINTENANCE SERVICES

D.1 Remote Maintenance Services (Fixed VSAT)

Remote maintenance services are only available for customer sites in the lower forty-eight (48) states of the United States and are not available for Mobile VSAT (Transportable) systems (as described in Section B.2.2.2, above). Hughes makes its Call Center available 24 hours per day, 365 days per year by toll-free telephone access or through a Web-based portal for resolution of problems with the remote maintenance services.

The Hughes Call Center will be the single point of contact for the following: origination, administration, and tracking of customer trouble reports requiring remote maintenance; Hughes personnel contact names and telephone numbers; and other trouble-reporting and escalation procedures. The Hughes Call Center personnel will confirm Customer Tier 3 Help Desk diagnosis or assist in the diagnosis of the remote problem before a remote maintenance ticket is created.

D.1.1 Corrective Maintenance (Fixed VSAT)

Hughes will provide corrective maintenance for remote satellite terminals according to the terms provided in this Agreement and will restore customer's malfunctioning equipment to good working condition by performing the following corrective maintenance as required:

- Diagnostic testing to determine the existence and cause of the malfunction
- Removal and replacement of any malfunctioning field replaceable unit (FRU)
- Reorientation (repointing) of the antenna subsystem in the event of misalignment
- Repair or replacement of equipment interconnecting cables
- Reloading initializing instructions and recommissioning
- Verification of proper operation and completion of service report

Notification to Hughes and the customer host that equipment has been restored to operational status

D.1.2 Remote Maintenance Exclusions

Remote maintenance excludes the following:

1. Maintenance, repair, or replacement of parts damaged or lost through catastrophe, accident, lightning, theft, misuse, fault, or negligence of the customer or end user, or causes external to the equipment, including (but not limited to) failure of, or faulty, electrical power or air conditioning, operator error, failure, or malfunction of data communication equipment not provided to customer by Hughes, or from any cause other than intended and ordinary use.

2. Changes, modifications, or alterations in or to the equipment by anyone other than Hughes or its affiliates, subcontractors, and other agents, except Hughes-approved upgrades and configuration changes.

3. Deinstallation, relocation, or removal of the equipment or any accessories, attachments, or other devices.

4. Tier 1 and Tier 2 Call Center support.

D.1.3 Response Time and Service Coverage (Fixed VSAT)

At time of contract, the customer will select service coverage hours to apply to all of its locations for which premium service coverage has been selected from the following list of available coverage plans. Once service coverage is selected, Hughes shall have no obligation to provide any enhanced service coverage, except by mutual written agreement of both parties (including payment to Hughes of an additional, agreed-upon charge).

1. Next Day Coverage (calls accepted from 8:00 a.m. to 5:00 p.m., local time, Monday through Sunday, holidays excluded).

2. Next Business Day Coverage (calls accepted from 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excluded).

3. Same Day Service Coverage (8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excluded).

For each of the first two Service Coverage Options listed above, Hughes personnel will determine the cause of a problem and isolate the fault. Thereafter, Hughes will authorize field service dispatch, and Hughes will dispatch a customer service representative (CSR) to end user's premises. The customer's call shall be considered received the same day when received by the Hughes Call Center between the hours of 8:00 a.m. and 5:00 p.m. local time at the remote site, Mondays through Fridays, holidays excluded. Calls shall be considered received the following business day if received by the Hughes Call Center at any other time.

If customer has selected Next Business Day Coverage, Hughes personnel will dispatch a CSR to be onsite at the end user's premises on the next business day after the trouble ticket has been logged by the Hughes Call Center.

If customer has selected Next Day Coverage, Hughes personnel will dispatch a CSR to be onsite at the end user's premises on the next calendar day after the trouble ticket has been logged by the Hughes Call Center.

For locations at which Same Day Service Coverage has been selected, Hughes personnel will determine the problem and isolate the fault within thirty (30) minutes of a request for maintenance. Thereafter, the Hughes Call Center will authorize field Service dispatch, and the CSR will be onsite at end user's premises, according to the maintenance response time table given below, from the time of authorization by the Hughes Call Center. The customer's call shall be considered received the same day when received by the Hughes Call Center between the hours of 8:00 a.m. and 1:00 p.m., local time at the remote site, Mondays through Fridays, holidays excluded. Calls shall be considered received the following business day if received by the Hughes Call Center at any other time.

The response time for sites at which Same Day Service Coverage has been selected is set in **Table 14**:

Table 14. Same Day Maintenance Response Timetable

Distance from Service Office	Response Time[3]
0 – 50 miles	4 hours
51 – 100 miles	5 hours
101 – 150 miles	6 hours
151 – 200 miles	10 hours

D.1.4 Spare Parts Support (Fixed VSAT)

Spare parts will be provided by Hughes Field Services. An inventory of spare parts will be placed at Hughes-designated local maintenance facilities that cover equipment sites used by end user.

Spares for the equipment antenna subsystem, including reflectors, mounts, anti-icing equipment, modems, and (if applicable) certain video equipment will be centrally stocked at a designated location in the continental United States.

Hughes will replace malfunctioning equipment components on a one-for-one exchange basis with a functionally equivalent spare part.

D.1.5 Customer Responsibilities

1. The customer hereby grants Hughes and Hughes' authorized representatives access, subject to customer's reasonable security restrictions, to equipment and related locations and areas of customer's facilities and premises, and will arrange permitted access to areas of third-party facilities and premises for the purpose of Hughes performing the work required under this Agreement. Hughes will comply with any of customer's reasonable rules and regulations for access of which Hughes has been notified. Any delays or return calls resulting from lack of free access or authorization to perform maintenance may, at Hughes' option, be billed at the Demand Service Charges indicated in the pricing section.

2. The customer shall keep the Hughes Program Manager apprised of any customer contacts who will act as a point of contact for remote equipment maintenance administration within customer's organization.

3. Response time estimates will be honored 90 percent for all Customer requests received during applicable Service coverage hours.

3. The customer shall provide Hughes Service representatives with access to electrical power, water, and other utilities, as well as telephone access to the customer hub as required for efficient service. The customer shall also provide at each remote equipment site telephone access to the hub for maintenance service personnel.

4. The customer shall provide safe access to equipment on customer premises and will maintain the environment where the equipment is located in a safe and secure condition.

5. The customer hub and/or data center personnel shall cooperate with and assist the Hughes service representative in providing maintenance services. The customer hub shall be adequately staffed during service coverage hours to provide such assistance.

6. The customer will maintain minimum site-environment conditions, as specified in remote equipment system documentation.

7. The customer agrees not to place or affix any type of identification or accounting mark or tag on any FRU covered by this Agreement, which may have to be returned to Hughes for repair or replacement.

8. The customer agrees to conduct reasonable Tier 1 and 2 support in an attempt to diagnose and localize the remote site issue to Hughes-provided equipment or Hughes-supported installation.

D.2 Remote Maintenance for Vehicle-Mounted Hughes (Ku VSAT) System

These services are only available for customer sites in the lower forty-eight (48) states of the United States. Hughes will make the Hughes/C-Com Call Center available from 8:30 a.m. to 6 p.m. EST, Monday through Friday by toll-free telephone access or email for resolution of problems with the remote maintenance services. Hughes will make the Hughes/Motosat Call Center available from 6 a.m. to 6 p.m. MST, 365 days per year by toll-free telephone access or through a Web-based portal for resolution of problems with the remote maintenance services. Either the Hughes/C-com call center or the Hughes/Motosat call center will be the single point of contact for the following: origination, administration, and tracking of customer trouble reports requiring remote maintenance; Hughes personnel contact names and telephone numbers; and other trouble reporting and escalation procedures. End users calling the help desks should have at least a basic level of PC experience.

D.2.1 Corrective Maintenance

Hughes/C-Com/Motosat will provide corrective maintenance for its product and will restore customer's malfunctioning equipment to good working condition by performing the following corrective maintenance as required:

- Remote diagnostic testing to determine the existence and cause of the malfunction
- Shipment of any malfunctioning FRU
- Shipment of equipment interconnecting cables
- Reloading initializing instructions and recommissioning if a replacement Hughes modem is required
- Verification of proper operation and completion of service report
- Notification to the customer host that equipment has been restored to operational status

D.2.2 Exclusions

Remote maintenance excludes the following:

1. Maintenance, repair, or replacement of parts damaged or lost through catastrophe, accident, lightning, theft, misuse, fault, or negligence of the customer or end user, or causes external to the equipment, including (but not limited to) failure of, or faulty, electrical power or air conditioning, operator error, failure, or malfunction of data communication equipment not provided to customer by Hughes/Motosat or Hughes/C-Com, or from any cause other than intended and ordinary use.

2. Changes, modifications, or alterations in or to the equipment by anyone other than Hughes or its affiliates, subcontractors, and other agents, other than Hughes-approved upgrades and configuration changes.

3. Deinstallation or removal of the equipment or any accessories, attachments, or other devices.

D.2.3 Response Time and Service Coverage

Hughes/C-Com/Motosat personnel will determine the cause of a problem and isolate the fault. As needed, Hughes/C-Com/Motosat will ship replacement parts to the customer's premise within the next business day. The customer's call shall be considered received the same day if received by the Hughes/Motosat Call Center between the hours of 8:00 a.m. and 5:00 p.m., local time of the remote site, Mondays through Fridays, holidays excluded. The customer's call shall be considered received the same day if received by the Hughes/C-Com Call Center between the hours of 8:30 a.m. and 5:00 p.m., local time of the remote site, Mondays through Fridays, holidays excluded. Calls shall be considered received the following business day if received by a Call Center at any other time.

D.2.4 Spare Parts Support

An inventory of Motosat spare parts will be pre-positioned at Salt Lake City, UT, and C-Com spare parts will be pre-positioned in Ottawa, Ontario to cover equipment sites used by the customer. Hughes/Motosat/C-Com will ship and replace malfunctioning equipment, notwithstanding the exclusions cited above, on a one-for-one exchange basis with a functionally equivalent spare part.

D.2.5 Technical Support

Below is contact information for Motosat vehicle-mounted Hughes VSAT System Technical Support for remote maintenance support for sites who ordered 12 months of remote maintenance:

- 1-800-247-7486
- Option #: 5
- Option #: 4

Below is contact information for C-com vehicle-mounted Hughes VSAT System Technical Support for remote maintenance support for sites under C-Com warranty or extended warranty:

- 1-800-233-0218
- 1-877-463-8886

D.2.6 KA Transportable Support

In case of an emergency or relating to matters of a more pressing nature, telephone support is available per incident to AVL Ka transportable customers.

- Typical telephone support:
  (Monday - Friday 8 a.m. – 5 p.m. EST)

  1-828-250-9140 ext. 3540 or the main switchboard:
  1-828-250-9950

- After hours/emergency customer service:
  (Weekends and Holidays)

  1-828-250-9140, then press 5 and follow prompts

D.2.7 Email Support

General email support is available to all AVL customers at **support@avltech.com**.

We encourage making primary contact for routine requests through email in order for our technical staff to organize and evaluate needs in a timely manner. RMA forms are available below.

D.2.8 RMA Form for Service Request

For providing better after-service to our customers, AVL offers online RMA forms to download. If there is any problem with purchased products, please fill out the form and fax it (828-250-9938) back to us. Our representative will contact you shortly.

Click here to download RMA form.

D.3 Remote Maintenance Services (DSL)

These services are only available for customer sites in the lower forty-eight (48) states of the United States. Both terrestrial and satellite sites are included. Hughes will make the its call center available 24 hours per day, 365 days per year by toll-free telephone access or through a Web-based portal for resolution of problems with remote maintenance services.

The Hughes Call Center will be the single point of contact for the following: origination, administration, and tracking of customer trouble reports requiring remote maintenance; Hughes personnel contact names and telephone numbers; and other trouble reporting and escalation procedures. Hughes Call Center personnel will confirm Customer Tier 3 Help Desk diagnosis or assist in the diagnosis of the remote problem before a remote maintenance ticket is created.

D.3.1 Corrective Maintenance

Hughes will provide corrective maintenance for remote terrestrial terminals in accordance with the terms provided in this Agreement and will restore customer's malfunctioning equipment to good working condition by performing the following corrective maintenance as required:

- Diagnostic testing to determine the existence and cause of the malfunction
- Removal and replacement of any malfunctioning FRU
- Repair or replacement of equipment interconnecting cables
- Reloading initializing instructions and recommissioning
- Verification of proper operation and completion of service report

Notification to Hughes and the customer host that equipment has been restored to operational status

D.3.2 Remote Maintenance Exclusions

Remote maintenance excludes the following:

1. Maintenance, repair, or replacement of parts damaged or lost through catastrophe, accident, lightning, theft, misuse, fault, or negligence of the customer or end user, or causes external to the equipment, including (but not limited to) failure of, or faulty, electrical power or air conditioning, operator error, failure, or malfunction of data communication equipment not provided to customer by Hughes, or from any cause other than intended and ordinary use.

2. Changes, modifications, or alterations in or to the equipment by anyone other than Hughes or its Affiliates, subcontractors and other agents, except Hughes-approved upgrades and configuration changes.

3. Deinstallation, relocation, or removal of the equipment or any accessories, attachments, or other devices.

4. Tier 1 and Tier 2 Call Center support.

D.3.3 Response Time and Service Coverage

At time of contract, the customer will select service coverage hours to apply to all of its locations for which premium service coverage has been selected from the following list of available coverage plans. Once selected, Hughes shall have no obligation to provide any enhanced service coverage, except by mutual written agreement of both parties (including payment to Hughes of an additional, agreed-upon charge).

1. Next Day Coverage (calls accepted from 8:00 a.m. to 5:00 p.m., local time, Monday through Sunday, holidays excluded)

2. Next Business Day Coverage (calls accepted from 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excluded)

3. Same Day Service Coverage (8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excluded)

For each of the first two Service Coverage Options listed above, Hughes personnel will determine the cause of a problem and isolate the fault. Thereafter, Hughes will authorize field service dispatch, and Hughes will dispatch a CSR to the end user's premises. The customer's call shall be considered received the same day when received by

the Hughes Call Center between the hours of 8:00 a.m. and 5:00 p.m., local time at the remote site, Mondays through Fridays, holidays excluded. Calls shall be considered received the following business day if received by the Hughes Call Center at any other time.

If the customer has selected Next Business Day Coverage, Hughes personnel will dispatch a CSR to be onsite at the end user's premises on the next business day after the trouble ticket has been logged by the Hughes Call Center.

If the customer has selected Next Day Coverage, Hughes personnel will dispatch a CSR to be onsite at the end user's premises on the next calendar day after the trouble ticket has been logged by the Hughes Call Center.

For locations at which Same Day Service Coverage has been selected, Hughes personnel will determine the problem and isolate the fault within thirty (30) minutes of a request for maintenance. Thereafter, the Hughes Call Center will authorize field service dispatch, and the CSR will be onsite at the end user's premises, according to the maintenance response time table given below, from the time of authorization by the Hughes Call Center. The customer's call shall be considered received the same day when received by the Hughes Call Center between the hours of 8:00 a.m. and 1:00 p.m., local time at the remote site, Mondays through Fridays, holidays excluded. Calls shall be considered received the following business day if received by the Hughes Call Center at any other time.

The response time for sites at which Same Day Service Coverage has been selected is set in **Table 15**:

Table 15. Maintenance Response Time Table

Distance from Service Office	Response Time[4]
0 – 50 miles	4 hours
51 – 100 miles	5 hours
101 – 150 miles	6 hours
151 – 200 miles	10 hours

D.3.4 Spare Parts Support

Spare parts will be provided by Hughes Field Services. An inventory of spare parts will be placed at Hughes-designated local maintenance facilities that cover equipment sites used by end-user.

Hughes will replace malfunctioning equipment components on a one-for-one exchange basis with a functionally equivalent spare part.

D.3.5 Customer Responsibilities

1. The customer hereby grants Hughes and Hughes' authorized representatives access, subject to customer's reasonable security restrictions, to equipment and related locations and areas of customer's facilities and premises, and will arrange permitted access to areas of third-party facilities and premises for the purpose of Hughes performing the work required under this Agreement. Hughes will comply with any of customer's reasonable rules and regulations for access of which Hughes has been notified. Any delays or return calls resulting from lack of free access or authorization to perform maintenance may, at Hughes option, be billed at the Demand Service Charges indicated in pricing section.

2. The customer shall keep the Hughes Program Manager apprised of any customer contacts who will act as a point of contact for remote equipment maintenance administration within customer's organization.

3. The customer shall provide Hughes service representatives with access to electrical power, water, and other utilities, as well as telephone access to the customer hub as required for efficient service. The customer shall also provide at each remote equipment site, telephone access to the hub for maintenance service personnel.

4. The customer shall provide safe access to equipment on customer premises and will maintain the environment where the equipment is located in a safe and secure condition.

---

4. Response time estimates will be honored 90 percent for all Customer requests received during applicable Service coverage hours.

5. The customer hub and/or data center personnel shall cooperate with and assist the Hughes service representative in providing maintenance services. The customer hub shall be adequately staffed during service coverage hours to provide such assistance.

6. The customer will maintain minimum site-environment conditions, as specified in remote equipment system documentation.

7. The customer agrees not to place or affix any type of identification or accounting mark or tag on any FRU covered by this Agreement, which may have to be returned to Hughes for repair or replacement. Customer agrees to conduct reasonable Tier 1 and 2 support in an attempt to diagnose and localize the remote site issue to Hughes provided equipment or Hughes-supported installation.

E CUSTOMER AND HELP DESK SUPPORT (TIER 1 AND TIER 3)

E.1 Tier 1

E.1.1 Tier 1 Support Option – Standard

"Tier 1" support services are defined as "end user to help desk" support. This service level provides direct support to the personnel at the end site, but assumes that the customer will initiate the contact with Hughes either by telephone or electronic ticket. This also assumes that the end location have an authorized individual available and able to perform/assist with remote troubleshooting procedures, as required by Hughes, when requesting assistance by telephone, or for at least 2 hours if by electronic ticket. If an onsite visit is required, Hughes must have an authorized individual on site available, during the maintenance hours described in the contract, on the scheduled day agreed upon between Hughes field services and the location. If the site is not available for remote troubleshooting and/or onsite repair within the agreed upon service level commitments, then the service level commitment no longer apply to that incident.

Hughes will provide access to "Tier 1" support via a toll-free (US only), dedicated telephone number and/or electronic ticketing via the customer portal. The support will be provided at existing SLA's, which are 70% of calls waiting no longer than 90 seconds, and support 90% of electronic tickets responded to within 1 hour. The support desk will be staffed 24 hours per day and 365 days per year. Hughes has the right to provide this support out of any of our present or future support centers. Support will be provided in English, only and does not include any end user/customer, self-service functionality via IVR, email, chat, or other online access.

This service level does not include any chronic site identification, or proactive event management beyond alerts generated from automated system (delivered via email or access via the Hughes Customer Gateway). Additionally this only includes support for Hughes provided service and equipment. The managed services provided in this level of support are confined to managing the technical and billing relationships to the various telecom providers, allowing for a single point of contact for issue resolution to the customer.

E.1.2 Tier 1 Support Option – Premium

This service level includes all services defined in "Tier 1" and "Tier 3" support services as well as first level event management. Under first level event management, Hughes will monitor tickets/alerts generated from the automated system. Hughes will make every reasonable effort to restore service remotely and update the ticket based on our actions, findings and/or recommended next actions. The remote site (or other customer entity can coordinate, if necessary) is responsible for contacting Hughes to either continue Tier 1 remote diagnostics, confirm operations/close the ticket, and/or request/schedule an "onsite" repair. If an onsite visit is required we must have an authorized individual on site available, during the maintenance hours described in the contract, on the scheduled day agreed upon between Hughes field services and the location. If the site is not available at any time for remote troubleshooting and/or onsite repair within the agreed upon service level commitments, then they no longer apply to that incident.

Other than stated above, this service level does not include any further proactive event management beyond tickets/alerts generated from the automated system (delivered via email or access via the Hughes Customer Gateway). Additionally this service level only includes support for Hughes provided service and equipment. Besides what is stated above, the managed services provided in this level of support are confined to managing the technical and billing relationships to the various telecom providers, allowing for a single point of contact for issue resolution to the customer.

E.1.3 Tier 1 Support Option – Platinum

This service level includes all services defined in "Tier 1" and "Tier 3" support services and Premium Support. Additionally Hughes will proactively make a reasonable attempt to contact the end location (based on the contact information available via Hughes Customer Portal) to either continue remote diagnostics, schedule an "onsite" repair, and/or confirm operations/close the ticket. After three attempts to reach the location, or if there is inaccurate contact information, the customer is responsible for contacting Hughes to either continue remote diagnostics, schedule an "onsite" repair, and/or confirm operations/close the ticket. If an onsite visit is required we must have an authorized individual on site available, during the maintenance hours described in the contract, on the scheduled day agreed upon between Hughes field services and the location. If the site is not available at any time for remote troubleshooting and/or onsite repair within the agreed upon service level commitments, then they no longer apply to that incident. The customer is responsible for maintaining accurate and up to date contact information in the customer portal.

Other than stated above, this service level does not include any further proactive event management beyond tickets/alerts generated from the automated system (delivered via email or access via the Hughes Customer Gateway). Additionally this service level only includes support for Hughes provided service and equipment. Besides what is stated above, the managed services provided in this level of support are confined to managing the technical and billing relationships to the various telecom providers, allowing for a single point of contact for issue resolution to the customer.

E.2 Tier 3

E.2.1 Tier 3 – Standard Support Option

"Tier 3" support services, is defined as "help desk to help desk" support. This does not grant direct access for the end site to the Hughes Help Desk, but assumes that the customer provides the first level of support with an internal helpdesk of subject matter experts that ensure all required troubleshooting and/or data gathering (as will be defined in the Training and Certification process) has been completed before forwarding the issue to Hughes either by telephone or electronic ticket. Hughes does not interact with an end user/customer directly unless Hughes deems it necessary to solve the issue.

Hughes will provide access to "Tier 3" support via a toll-free (US only), dedicated telephone number and/or electronic ticketing via the customer portal. The support will be provided out of the existing shared support teams, and at existing SLA's which are 70% of calls waiting no longer than 90 seconds, and 90% of support tickets responded to within 1 hour (resolution cannot be a guaranteed SLA). This will be staffed 24 hours per day and 365 days per year. Hughes has the right to provide this support out of any of our present or future support centers. Support will be provided in English, only and does not include any end user/customer, self-service functionality via IVR, email, chat, or other online access.

This is the basic level of support and does not include any chronic site identification, or proactive event management beyond tickets/alerts generated from the automated system (delivered via email or access via the Hughes Customer Gateway). Additionally this only includes support for Hughes provided service and equipment. Hughes will not provide support, of any kind, for services or equipment not provided or purchased through Hughes.

Hughes will provide training for the customer's staff through a "train-the-trainer" process, for technical support processes requiring the use of all Hughes provided tools on the support portal, including troubleshooting tools and knowledge base articles. This does not include PC/Device, OS, Networking, Peripheral, or other support outside the scope of the services and equipment provided by Hughes. The customer will be responsible for developing and maintaining all materials and systems related to their systems, tools, and processes, as well as training delivery to its own staff. Customer will also be responsible for integrating and maintaining all updates, edits, and/or revisions into their internal documentation and processes. Hughes will make these systems available as they would their own internal staff, which would include unavailability during maintenance windows. Hughes also reserves the right to replace any process, system, and/or tool with an equivalent replacement at Hughes' discretion.

Hughes will provide reporting as it already exists and/or is available today via the portal (examples or a list can be provided if necessary).

E.2.1.1 Premium Support Option with Tier 3 Support (Basic Event Management)

This includes all services defines in "Tier 3" support services as well as first level event management. With first level event management, Hughes will also monitor tickets/alerts generated from the automated system. Hughes will make every effort to restore service remotely and update the ticket based on our actions, findings, and/or

recommended next actions. However, the customer help desk is responsible for contacting Hughes to confirm operations/close the ticket, continue remote diagnostics with the site, and/or request/schedule an "onsite" repair.

This does not include any chronic site identification, or further proactive event management. Additionally this only includes support for Hughes provided service and equipment. Hughes will not provide support, of any kind, for services or equipment not provided or purchased through Hughes

F WiFi SERVICES DESCRIPTION

F.1 Overview

Hughes WiFi Services offer a complete portfolio of managed WiFi services designed to address enterprise wireless needs. These WiFi offerings include the following:

a. **Enterprise WiFi:** Typically used for applications such as inventory management or customer assistance, Enterprise WiFi services provide a secure, private enterprise connection to run corporate applications over a wireless connection at a site.

b. **Guest WiFi:** Enables the customer to leverage existing private network connectivity to support public WiFi access for consumer users at a site.

c. **Rogue Detection:** One or more wireless scanning devices used to detect rogue devices. In the event rogue device is detected, Hughes may either automatically notify the customer or dispatch onsite field resources to remove rogue device.

F.2 Required Equipment

F.2.1 Centralized WiFi Deployment

In a centralized WiFi deployment of Hughes WiFi Services, up to three access points are required at a single location. Within the term "Centralized WiFi" the word "Centralized" refers to the manner in which the controllers are deployed throughout the customer's network. In a centralized WiFi deployment, all controllers necessary to support the customer's network exists at central location. This central location would be the Hughes Datacenter. The access points deployed at a single location can all support enterprise WiFi, guest WiFi, and rogue detection.

a. **Access Points:** At customer location that classifies as small format deployments, up to three access points will be installed.

b. **Access Point Mount:** For each AP, the mount is included; allows AP to be mounted on flat surface (i.e., wall, ceiling) or soft-lid ceiling.

c. **Power Injector:** For each AP installed in small format deployment, power injector included to supply power to AP.

d. **Category 5 Ethernet Cable:** For each AP up to 328 ft. (100 m) of Ethernet cable will be provided.

F.2.2 Distributed WiFi Deployment

In a distributed WiFi deployment of Hughes WiFi Services, more than three access points and at least one controller are required at a single location. Within the term "Distributed WiFi" the word "Distributed" refers to the manner in which the controllers are deployed throughout the customer's network. In a distributed WiFi deployment, at least one controller exists at each location within the customer's network. The access points deployed at a single location can all support enterprise WiFi, guest WiFi, and rogue detection.

a. **Access Points:** At customer location that classifies as a distributed WiFi deployment, up to three access points will be installed.

b. **Access Point Mount:** Allows AP to be mounted on flat surface (i.e., wall, ceiling) or soft-lid ceiling.

c. **Category 5 Ethernet Cable:** For each AP up to 328 ft. (100 m) of Ethernet cable will be provided.

d. **Access Point Controller:** Controller model and quantity deployed are contingent upon the amount APs on site and VLANs per AP.

e. **PoE Switches:** Supply connectivity and power for APs; quantity deployed is contingent upon the amount of APs on site.

F.3 Features

F.3.1 Guest WiFi

For both centralized and distributed Guest WiFi services, key features are included to ensure that end users have a positive Internet experience.

F.3.1.1 Centralized Guest WiFi Services

Hughes Centralized Guest WiFi services are provided in the 802.11 b/g/n spectrum. The Hughes Guest WiFi service provides a secure, encrypted IPSec tunnel from end-user device to Hughes datacenter. From Hughes datacenter, the data is processed and dropped off onto the Internet. To provide Internet access to guest users no login credentials are required on the Guest WiFi service set identifier (SSID). This Guest WiFi SSID is broadcasted throughout the location. The access points deployed throughout the customer network announce the same SSID at each location. For all guest users with WiFi-enabled devices, DHCP services are provided by Hughes. Using a captive portal, those WiFi-enabled devices present the guest user with a splash page. At each location within the customer's network, the splash page presents the user with the same "Terms and Conditions for Acceptable Use." The customer is responsible to provide graphics for the splash page and the verbal content for the "Terms and Conditions for Acceptable Use." Hughes Centralized Guest WiFi Services also include universal threat management (UTM) services. These services consist of the following:

1. White listing (up to 50 acceptable, sites designated by the customer)
2. Black listing (up to 50 unacceptable, sites designated by the customer)
3. Anti-spam protection
4. Anti-virus protection
5. Web content filtering (profile determined by the customer)

UTM profiles are at a network level and impact all access points within the customer's network.

For every guest WiFi location within the Customer's network a standard window cling decal will be provided. This decal, which informs the end user of the available guest WiFi services, is to be installed by location personnel. Every month, the Customer will be provided with standard reports that describe guest WiFi user activity and bandwidth utilization.

F.3.1.2 Distributed Guest WiFi Services

Hughes Distributed Guest WiFi Services are provided in the 802.11 b/g/n spectrum. The Hughes Guest WiFi service provides a secure, encrypted IPSec tunnel from end-user device to a controller on location. From the controller, the data is processed and dropped off onto the customer's local LAN. The data is subsequently dropped off onto the Internet. To provide Internet access to guest users no login credentials are required on the Guest WiFi service set identifier (SSID). This Guest WiFi SSID is broadcasted throughout the location. The access points deployed throughout the customer network announce the same SSID at each location. For all guest users with WiFi-enabled devices, DHCP services are provided by Hughes. Using a captive portal, those WiFi-enabled devices present the guest user with a splash page. At each location within the customer's network, the splash page presents the user with the same "Terms and Conditions for Acceptable Use." The customer is responsible for providing graphics for the splash page and the verbal content for the "Terms and Conditions for Acceptable Use." Hughes Centralized Guest WiFi services also include UTM services. These services consist of the following:

1. White listing (up to 50 acceptable sites designated by the customer)
2. Black listing (up to 50 unacceptable sites designated by the customer)
3. Antispam protection
4. Antivirus protection
5. Web content filtering (profile determined by the customer)

UTM profiles are at a network level and impact all access points within the customer's network.

For every guest WiFi location within the customer's network, a standard window cling decal will be provided. This decal, which informs the end user of the available guest WiFi services, is to be installed by location personnel.

Every month, the customer will be provided with standard reports that describe guest WiFi user activity and bandwidth utilization.

F.3.2 Enterprise WiFi

For both centralized and distributed Enterprise WiFi services, key features are included to ensure that the customer's employees can connect to the customer's internal network wirelessly and perform all business-centric functions.

F.3.2.1 Centralized Enterprise WiFi Services

Hughes Centralized Enterprise WiFi Services are provided within 802.11 b/g/n spectrum. Hughes provides a dedicated WiFi network configured on customer's enterprise LAN to support Enterprise WiFi services. This enterprise WiFi network consists of a secure, encrypted IPSec tunnel from the customer device to Hughes datacenter. From the Hughes datacenter, data is processed and dropped off onto the customer network. To provide customer network access, user authentication for Enterprise WiFi service set identifier (SSID) is required. The SSID will be configured for WPA2 and a pre-shared key (PSK). Given the customer's existing hardware and corporate resources, other user authentication methods may be explored. As an additional security measure, the SSID is not broadcasted throughout the location. Locations within the customer's network will consist of access points that announce the same SSID at each location. At each location, the customer is responsible for the configuration of all customer devices that utilize the Hughes Enterprise WiFi service. In the event multiple devices are unable to access a given access point, Hughes will provide troubleshooting assistance by confirming the status of the access point and the current and historical information concerning device connections to the wireless network. When the WiFi service is able to support wireless devices, Hughes is not responsible for resolving issues related to the customer's wireless devices that are unable to connect to the wireless network. As determined as necessary by the customer, but no more frequently than once a month, HNS will change the SSID or pre-shared key (PSK). Every month, the customer will be provided with a standard report that describes Enterprise WiFi user activity and bandwidth utilization.

F.3.2.2 Distributed Enterprise WiFi Services

Hughes Distributed Enterprise WiFi services are provided within 802.11 b/g/n spectrum. Hughes provides a dedicated WiFi network configured on the customer's enterprise LAN to support Enterprise WiFi services. This enterprise WiFi network consists of a secure, encrypted IPSec tunnel from the customer device to the controller location. From the controller location, the data is processed and dropped off onto the Internet. This data is subsequently forwarded to the customer network. To provide customer network access, user authentication for Enterprise WiFi service set identifier (SSID) is required. The SSID will be configured for WPA2 and a PSK. Given the customer's existing hardware and corporate resources, other user authentication methods may be explored. As an additional security measure, the SSID is not broadcasted throughout the location. Locations within the customer's network will consist of access points that announce the same SSID at each location. At each location, the customer is responsible for the configuration of all customer devices that utilize the Hughes Enterprise WiFi service. In the event multiple devices are unable to access a given access point, Hughes will provide troubleshooting assistance by confirming the status of the access point and the current and historical information concerning device connections to the wireless network. When the WiFi service is able to support wireless devices, Hughes is not responsible for resolving issues related to the customer's wireless devices that are unable to connect to the wireless network. As determined as necessary by the customer, but no more frequently than once a month, Hughes will change the SSID or PSK. Every month, the customer will be provided with a standard report that describes Enterprise WiFi user activity and bandwidth utilization.

F.3.3 Rogue Detection

For both centralized and distributed Rogue Detection Services, the key features are included to notify the customer of unknown access points.

F.3.3.1 Hughes Centralized Rogue Detection Services

Hughes Centralized Rogue Detection services determine rogue access points by scanning the wireless spectrum and identifying potential rogue access points. Once potential rogue access points are identified, Hughes Centralized Rogue Detection services correlate information collected wirelessly and on the physical wire. Upon detection of confirmed rogue access points, the customer is notified automatically via email. The customer is responsible for having either the store personnel or support technicians locate and remove the rogue access point. Hughes' response to the confirmed rogue access point is based on the customer's direction. Hughes will provide quarterly reports to the customer on rogue scanning and detection activity.

F.3.3.2 Hughes Distributed Rogue Detection Services

Hughes Distributed Rogue Detection services determine rogue access points by scanning the wireless spectrum and identifying potential rogue access points. Once potential rogue access points are identified, Hughes Centralized Rogue Detection Services correlates information collected wirelessly and on the physical wire. Upon detection of confirmed rogue access points, the customer is notified automatically via email. The customer is responsible for having either the store personnel or support technicians locate and remove the rogue access point. Hughes' response to the confirmed rogue access point is based on the customer's direction. Hughes will provide quarterly reports to the customer on rogue scanning and detection activity.

F.4 Service Limitations

The Customer acknowledges the following:

The number of access points supported by a single controller is contingent upon three key controller maximums: access points per controller, SSIDs per controller, VLANs per controller. A controller supports a limited number of access points. Once that limitation is reached, the controller must be upgraded or another controller must be deployed to support the Customer's network. A controller supports a limited number of SSIDs. Once that limitation is reached, the controller must be upgraded, or another controller must be deployed to support the Customer's network. A controller supports a limited number of VLANs. Once that limitation is reached, the controller must be upgraded or another controller must be deployed to support the Customer's network. Regardless of the amount of the other controller maximums, if the limitation of one of these maximums is reached, the controller must be upgraded, or another controller must be deployed to support the Customer's network.

If an access point fails, the entry of the access point must be removed from the controller before the access point can be replaced.

If an access point is dedicated to only be an air monitor, the access point will continuously scan the wireless channels. If an access point is configured to be an air monitor and to support wireless access, the access point will support data transfers from authorized wireless clients. As a result, the access point will scan for rogue access points less often. In this situation, the radio timeshare setup will be configured using industry best practices.

F.5 Installation of Equipment

At a customer location, Hughes will install and provision, at least, one wireless access points to support the customer's desired applications. Standard installation assumes soft-lid ceilings and includes the access point hardware, access point mount, up to 328 ft. (100 m) of Ethernet cabling. Where necessary, Hughes will also install a Power-over-Ethernet (PoE) adapter, a Hughes-managed controller, and a Hughes-managed switch.

Standard installation assumes that the access points will be installed on the soft-lid ceiling of the customer location. Although soft-lid ceilings are part of the standard installation, access points can be installed on any flat surface. Where soft-lid ceilings exist, the Ethernet cables will be concealed and not visible to the customer. Where soft-lid ceilings are not present, Hughes will utilize a best-effort approach to concealing the Ethernet cables. The PoE adapter will be installed near the LAN hub or switch of the customer location. This LAN hub or switch can exist in a back office, telecommunications closet, or telecommunications room. This PoE adapter will require electrical power. Hughes-managed devices, such as a controller or switch, will be installed in a back office, telecommunications closet, or telecommunications room.

F.6 Optional Features

In addition to the standard Hughes WiFi offerings, Hughes provides premium services that further enhance the customer's WiFi implementation.

Guest WiFi

Within a Guest WiFi implementation, access points can be configured to not only support guest Internet traffic, but also support other wireless network traffic within the customer location. Infrastructure changes and additional access point licensing will be required. These changes will ensure proper separation of traffic. Additional access points may be required as well.

Enterprise WiFi

Within an Enterprise WiFi implementation, access points can be configured to not only support customer Internet traffic, but also support other wireless network traffic or rogue scanning services within the customer location.

Infrastructure changes and additional access point licensing will be required. These changes will ensure proper separation of traffic. Additional access points may be required as well.

Rogue Mitigation

When a rogue access point is detected within a rogue detection implementation, Hughes can provide a number of rogue mitigation services. Hughes can remotely apply denial of service (DOS) attacks, address resolution protocol (ARP) poisoning, tar pitting, and port shut down.

Denial of Service (DOS) Attacks

- Access point will send deauthorization requests on behalf of rogue access point to rogue client.
- Access point will send deauthorization requests on behalf of rogue client to rogue access point.

Address Resolution Protocol (ARP) Poisoning

- Access point will confuse default gateway by mimicking identical MAC address of rogue access point.

Tar Pitting

Access point will capture wireless clients attempting to connect to rogue access point by mimicking wireless interface of rogue access point; captured client devices will be unable to connect to anything beyond the approved access point.

Port Shut Down

If a rogue access point is connected to the Hughes managed switch, Hughes will remotely shut down the port in which the rogue access point is connected.

Access point mitigation services require that at least one access point is configured as an air monitor. With the customer's direction, Hughes can also dispatch an onsite field technician to identify and remove the rogue device.

F.7 Disclaimer of Liability

Hughes disclaims any warranties whatsoever with respect to the Guest WiFi Services to be provided to the customer's guest end users. In addition, Hughes assumes no liability, and the customer hereby indemnifies and holds Hughes harmless from any against any claim from any third-party, including the customer's guest end users, arising from the use of the WiFi service. Further, the customer agrees that the terms of use governing its guests' use of the WiFi service will be substantially similar to that set out below.

(Insert Customer Name) provides limited but free Internet access points or "hot spots" during most hours, except during maintenance procedures, for the customer's guest's personal use with portable computers or devices capable of receiving wireless signals. These access points allow customers to access the Internet from their Web-enabled devices when within range of these access points.

As with most public wireless "hot spots," (insert Customer name)'s wireless connection is not secure. Any information being sent or received could potentially be intercepted by another wireless user. Cautious and informed wireless users should not transmit their credit card information, passwords, and any other sensitive personal information while using any wireless "hot spots."

Users assume all associated risks and agree to hold harmless (insert Customer Name), Hughes Network Systems, LLC and their respective employees for any personal information (e.g., credit card) that is compromised, or for any damage caused to users' hardware or software due to electric surges, security issues or consequences caused by viruses or hacking. All wireless access users should have up-to-date virus protection on their personal laptop computers or wireless devices. (Insert Customer name) provides access to Web-based email only. For Microsoft Outlook or other email services, the users must connect with their own Internet service provider (ISP).

(Insert Customer name)'s staff may provide general information on the settings necessary to access the Internet via these connections, but are not responsible for any changes users make to their computer settings and cannot guarantee that a user's hardware will work with this wireless connection. If a user has problems accessing the Internet over these connections, (insert Customer name)'s staff cannot assist in making changes to the user's network settings or perform any troubleshooting on the user's computer. Users should refer to their owner's manuals or other support services offered by their device manufacturer.

Use of these access points is governed by the **(Insert Customer Name) WiFi Appropriate Use Policy — which is available at (insert URL here)**. All users are expected to use Hughes' wireless access in a legal and responsible manner, consistent with the public service and informational purposes for which it is provided. Users should not violate federal, Washington, or local laws, including the transmission or receiving of child pornography or harmful material, fraud, or downloading copyrighted material.

G GLOSSARY OF ACRONYMS

Acronym	Definition
ACL	Access Control List
ACM	Adaptive Coding and Modulation
AES	Advanced Encryption Standard
AGWs	Access Gateways
BI	Basic Internet
BoD	Bandwidth-on-Demand
CIR	Committed Information Rates
CO	Central Office
CPE	Customer Premises Equipment
CPE	Customer Premises Equipment
CTSA	Communications Technology Services Agreement
DDR	Data Delivery Ratio
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
DVB-	Digital Video Broadcasting
FDMA	Frequency Division Multiple Access
HVUL	High Volume Uplink
ICMP	Internet Control Message Protocol
IDSL	ISDN Digital Subscriber Line
IDU	Indoor Unit
IGMP	Internet Group Management Protocol
IKE	Internet Key Exchange
IPGW	Internet Protocol Gateways
MCS	Multi-Casting System
MRTG	Multi-Router Traffic Grapher
MTBF	Average Time Between Failures
MTTR	Mean Time to Repair
NAT	Network Address Translation
NLV	North Las Vegas
NOC	Network Operations Center
ODU	Outdoor Unit
OPN	Optimized Network
PAT	Port Address Translation
PCI	Payment Card Industry
PEP	Performance Enhancement Proxy
QoS	Quality of Service
SAM	Security Access Module
SDSL	Synchronous Digital Subscriber Line
SLA	Service Level Agreement
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol

Acronym	Definition
TDMA	Time Division Multiple Access
TT&C	Telemetry and Tracking Center
UDP	User Datagram Protocol
USF	Universal Service Fund
VADB	Virtual Automatic Dial Backup
VLAN	Virtual Local Area Network
VPN	Virtual Private Network
VRRP	Virtual Router Redundancy Protocol

H Pricing

Specific to Host Nation Agreement CLIN(s) – All prices are "not-to-exceed" prices. The price to the government for worldwide HNA services for a specific order will be quoted on a case-by-case basis due to the widely varying nature of the effort required in each country and the applicable licensing and authorization requirements in each country. HNA CLINs apply to all applicable frequency bands in each region. All necessary landing rights and frequency clearances are included in the CLIN pricing. Please note that not all countries per region are listed. Prices are exclusive of telecommunications taxes and other similar duties.

- **Annual recurring charges** include recurring licensing and administrative fees, including telecommunications and radiofrequency licenses paid to applicable telecommunications regulatory agencies. This pricing is **annual** and includes the complete network operations (commercial and/or operational licenses and access to spectrum or radiofrequencies associated with an earth station). All foreign satellite operator, annual spectrum access, and annual frequency permits are included in this pricing.

- **Nonrecurring charges (NRC)** include one-time charges associated with obtaining and implementing licenses prior to operations. The nonrecurring charges in this column include charges, fees, and expenses to be paid or incurred by Hughes during the first year of operations in connection with preparing, filing, obtaining, and implementing the applicable licenses in each country directly from governmental regulators, complying with the licensing procedures, and coordinating and following up with local authorities on applicable licensing requirements, and reimbursing charges assessed or payments made by local service providers as necessary for local service providers to obtain approval to amend their current licenses to cover services provided to the government or to obtain the appropriate licenses. It may also include reimbursement of fees and expenses to external advisers and consultants where required for filing the license (e.g., Greece, Spain). NRC applies only to year one before commencement of operations. It also includes potential payments to certain State Monopoly authorities to obtain a waiver to their exclusive right to use spectrum from foreign satellites (e.g., Djibouti, Kazakhstan, and Rwanda).

The service charges provided for in this Agreement are exclusive of the following taxes and charges with respect to the services or equipment provided hereunder: (i) any present or future federal, state, or local excise, sales, or use taxes; (ii) any other present or future excise, sales, or use tax, or other charge or assessment upon or measured by the gross receipts from the transactions provided in this Agreement or any allocated portion thereof or by the gross value of the equipment, services, and other materials provided hereunder, including but not limited to a Universal Service Fund charge; and (iii) any present or future property, inventory, or value-added tax or similar charge. The customer will pay and discharge, either directly to the governmental agency or as billed by Hughes, the foregoing taxes and charges and all assessments, and other taxes with respect to the transactions provided in this Agreement and all services and equipment provided hereunder (excluding any federal, state, local, or foreign income taxes, or any tax on gross receipts or gross revenue that is in the nature of an income tax, or any franchise, net worth, or capital taxes, imposed upon Hughes).

COMMITMENT TO PROMOTE SMALL BUSINESS

PREAMBLE

(Name of Company) provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged, and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting.

COMMITMENT

To actively seek and partner with small businesses.

To identify, qualify, mentor, and develop small, small disadvantaged, and women-owned small businesses by purchasing from these businesses whenever practical.

To develop and promote company policy initiatives that demonstrates our support for awarding contracts and subcontracts to small business concerns.

To undertake significant efforts to determine the potential of small, small disadvantaged, and women-owned small business to supply products and services to our company.

To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged, and women-owned small businesses.

To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.

To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged, and women-owned small businesses to promote and increase their participation in ordering activity contracts.

(Insert Customer Name)

BLANKET PURCHASE AGREEMENT

In the spirit of the Federal Acquisition Streamlining Act (ordering activity) and (Contractor) enter into a cooperative agreement to further reduce the administrative costs of acquiring commercial items from the General Services Administration (GSA) Federal Supply Schedule contract(s) ____.

Federal Supply Schedule contract BPAs eliminate contracting and open market costs, such as search for sources the development of technical documents, solicitations, and the evaluation of offers. Teaming Arrangements are permitted with Federal Supply Schedule contractors according to the Federal Acquisition Regulation (FAR) 9.6.

This BPA will further decrease costs, reduce paperwork, and save time by eliminating the need for repetitive, individual purchases from the schedule contract. The end result is to create a purchasing mechanism for the ordering activity that works better and costs less.

Signatures

Ordering Activity Date	Contractor	Date

(CUSTOMER NAME)

BPA NUMBER_____

BLANKET PURCHASE AGREEMENT

Pursuant to GSA Federal Supply Schedule contract number(s)_____, BPAs, the contractor agrees to the following terms of a BPA EXCLUSIVELY WITH (ordering activity):

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE

(2) Delivery:

DESTINATION	DELIVERY SCHEDULES/DATES

(3) The ordering activity estimates, but does not guarantee that the volume of purchases through this agreement will be _____.

(4) This BPA does not obligate any funds.

(5) This BPA expires on _____or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT

(7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.

(8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:

(a) Name of Contractor

(b) Contract Number

(c) BPA Number

(d) Model Number or National Stock Number (NSN); (e) Purchase Order Number

(f) Date of Purchase

(g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided that the invoice is itemized to show the information)

(h) Date of Shipment

(9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.

(10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the contractor's invoice, the provisions of this BPA will take precedence.

****

CONTRACTOR TEAMING ARRANGEMENTS

Federal Supply Schedule contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to an ordering activity requirements.

These team arrangements can be included under a BPA. BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a team arrangement are subject to terms and conditions or the Federal Supply Schedule contract. Participation in a team arrangement is limited to Federal Supply Schedule contractors.

Customers should refer to FAR 9.6 for specific details on team arrangements. Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule contractors may individually meet the customers' needs.
- Federal Supply Schedule contractors may individually submit a schedule's "Team Solution" to meet the customer's requirement.
- Customers make a best-value selection.

Product Category	Product Type	Product/Service	GSA Price	Unit
132-8 HN Ka Hardware and Installation				
132-8 HN Ka Hardware and Installation	HN-Ka	HN Ka Hardware & Installation - Customer equipment for use with a HughesNet Gen4 Business Internet Service Plan. Includes HN9000, .74m antenna, 1W radio & standard enterprise installation. This discounted Hardware price requires minimum 12 months commitment of HughesNet Gen4 Service Plans. Plans only available on the Spaceway satellite(where EchoStar XVII satellite are not available) . Certain geographical areas are not covered by this satellite.	$1,128.97	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9000, .98m antenna, 2watt standard installation. - Customer equipment for use with a HughesNet Business Internet Service Plan. (HN9000 - BI plans only). Includes standard installation.	$1,308.74	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9000, 1.2m antenna upgrade. - Antenna upgrade to a 1.2m KA, concurrent with original installation. Associated with 9000 equipment.	$443.29	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, .98m antenna, 2 watt, standard installation. - Customer equipment for use with a HughesNet Private Network Service Plans (D50 to D 500H). Includes standard installation.	$2,413.00	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, 1.2m antenna 2 watt, standard installation - Customer equipment for use with a HughesNet Private Network Service Plans (D50 to D 500H). Includes standard installation.	$2,865.00	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, 1.2m antenna, 4 watt, standard installation - Customer equipment for use with a HughesNet Private Network Service Plans (D50 to D 500H). Includes standard installation.	$3,360.00	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, 1.8m antenna, 2 watt, standard installation - Customer equipment for use with a HughesNet Private Network Service Plans (D50 to D 500H). Includes standard installation.	$5,441.00	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, 1.8m antenna, 4 watt, standard installation - Customer equipment for use with a HughesNet Private Network Service Plans (D50 to D 500H). Includes standard installation.	$5,944.00	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN9500, 1.8m, 10 watt - HN9500, 1.8m antenna, 10 watt, standard installation	$17,677.09	Each
132-8 HN Ka Hardware and Installation	HN-Ka	HN Ka Data-center Hardware & Installation - SPACEWAY Datacenter Gateway Installed at Customer Facility -- Includes Access Gateway (Redundant),HughesNet Proactive Monitoring Server, Cisco 1841 with Async Port, Cables, Switched Power Controller, 24U Rack, Fortigate 60B at Datacenter, VPN Concentrator Access at HNS NOC, Cisco 2960, Program Management, Configuration and Testing, Shipping On-Site Installation. Hughes will provide Internet Access at HUGHES NOC and Customer will provide Internet Access at the datacaenter.	$29,016.00	Each
132-8 HN-Ka-HW and Installation - De-icing	HN-Ka	De-icing for .98m KA band, installed concurrently with remote - Deicing element for .98 m antenna and installation during the initial installation of the HughesNet remote terminal. Applicable to HN7700 & HN7000 only.	$1,057.86	Each
132-8 HN-Ka-HW and Installation - De-icing	HN-Ka	De-icing for 1.2m, KA Band Installed concurrently with remote - Deicing element for 1.2 m antenna and installation during the initial installation of the HughesNet remote terminal. Applicable to HN7700 & HN7000 only.	$1,088.09	Each
132-8 HN-Ka-HW and Installation - De-icing	HN-Ka	De-icing for 1.8m, KA Band Installed concurrently with remote - Deicing for 1.8 m antenna and installation during the initial installation of the HughesNet remote terminal Applicable to HN7700 & HN7000 only.	$1,158.00	Each
132-55 HN Ka Internet Access Plan				
132-55 HN-Ka-Internet Access	HN-Ka	Connect 100 - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds Up To: 200kbps up/1000 kbps down and daily allowance is 250MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$60.44	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Connect 100 Plus - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds Up To: 200kbps up/1000 kbps down and daily allowance is 300MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$70.51	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HN-Ka-Internet Access	HN-Ka	Connect 150 - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds Up To: 250kbps up/1500 kbps down and daily allowance is 350MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$80.59	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Connect 150 Plus - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 250kbps up/1500 kbps down and daily allowance is 400MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$90.66	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 200 - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 300kbps up/2000 kbps down and daily allowance is 450MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$110.81	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 200 Plus - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 300kbps up/2000 kbps down and daily allowance is 500MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$120.89	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 300 - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 512 kbps up/3000 kbps down and daily allowance is 850MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$201.49	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 300 Plus - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 512 kbps up/3000 kbps down and daily allowance is 1100MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$251.86	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 500 - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 1024kbps up/5000 kbps down and daily allowance is 850MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$352.61	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Express 500 Plus - Business Internet service. Requires HN9000S and minimum of a .98 m antenna. Maximum speeds up to: 1024kbps up/5000 kbps down and daily allowance is 1100MB. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$402.99	/site/mo
132-55 HN-Ka-Internet Access	HN-Ka	Business 50 - Gen4 Business Internet service. Requires HN9000, 0.74m antenna & 1W radio. Download Speed Up to 5 MbpsUpload Speed Up to 1 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 5 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 10 GBMonthly Total Data Allowance is 15 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment.Plans only available on the Spaceway satellite (where EchoStar XVII satellite are not available) . Certain geographical areas are not covered by this satellite.	$70.51	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HN-Ka-Internet Access	HN-Ka	Business 100 - Gen4 Business Internet service. Requires HN9000, (where EchoStar XVII satellite are not available) .74m antenna & 1W radio. Download Speed Up to 5 MbpsUpload Speed Up to 1 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 10 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 15 GBMonthly Total Data Allowance is 25 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment.Plans only available on the Spaceway satellite (where EchoStar XVII satellite are not available) . Certain geographical areas are not covered by this satellite.	$80.59	/site/mo
132-52 Static Routable IP Address				
132-52 Static IP Address	Static IP Address	Static, routable IP address (1) - 1 Static, routable IP address, available only on Internet Access Plans. Requires a 12 month commitment.	$9.07	/site/mo/address
132-52 Static IP Address	Static IP Address	Static, routable IP address (5) - 5 Static, routable IP address, available only on Internet Access Plans. Requires a 12 month commitment.	$27.20	/site/mo/address
132-52 Static IP Address	Static IP Address	Static, routable IP address (1), DSL - 1 Static, routable IP address, available in conjunction with ADSL service plans, subject to availability. Requires a 12 month commitment.	$17.23	/site/mo/address
132-55 HN Ka private Network service Plan				
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 50 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 64 kbps up/8 mbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$30.25	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 100 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 128 kbps up/8 mbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$35.25	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 200 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 256 kbps up/8 mbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$70.55	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 300 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 512 kbps up/8 mbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$151.15	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 400 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 1024 kbps up/8 mbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$201.50	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 100H - Private Network Service Plan with. Requires HN9500 and minimum of a .98 m antenna. Dedicated Bandwidth at 128 kbps up stream and burstable bandwidth up to 8 mbps downstream. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$392.95	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 200H - Private Network Service Plan with. Requires HN9500 and minimum of a .98 m antenna. Dedicated Bandwidth at 256 kbps up stream and burstable bandwidth up to 8 mbps downstream. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$765.70	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 300H - Private Network Service Plan with. Requires HN9500 and minimum of a .98 m antenna. Dedicated Bandwidth at 512 kbps up stream and burstable bandwidth up to 8 mbps downstream. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$1,511.25	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 400H - Private Network Service Plan with. Requires HN9500 and minimum of a .98 m antenna. Dedicated Bandwidth at 1024 kbps up stream and burstable bandwidth up to 8 mbps downstream. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$3,022.50	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 500H - Private Network Service Plan with. Requires HN9500 and minimum of a .98 m antenna. Dedicated Bandwidth at 2048 kbps up stream and burstable bandwidth up to 8 mbps downstream. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$6,044.99	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 50AC - Access continuity plan. Maximum speeds Up To: 64 kbps up/8 mbps down. Up to 36 hrs/site/mo.	$23.16	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 100AC - Access continuity plan. Maximum speeds Up To: 128 kbps up/8 mbps down. Up to 36 hrs/site/mo.	$30.22	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 200AC - Access continuity plan. Maximum speeds Up To: 256 kbps up/8 mbps down. Up to 36 hrs/site/mo.	$60.44	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 300AC - Access continuity plan. 512 kbps up/8 mbps down. Up to 36 hrs/site/mo.	$90.67	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 400AC - Access continuity plan. Maximum speeds Up To: 1024 kbps up/8 mbps down. Up to 36 hrs/site/mo.	$130.97	/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 50AC - Access continuity hourly usage rate plan when D50-AC base plan hour allotment is exceeded.	$5.04	Hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 100AC - Access continuity hourly usage rate plan when D100-AC base plan hour allotment is exceeded.	$7.56	Hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 200AC - Access continuity hourly usage rate plan when D200-AC base plan hour allotment is exceeded.	$10.08	Hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 300AC - Access continuity hourly usage rate plan when D300-AC base plan hour allotment is exceeded.	$15.11	Hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network D Plan	HN-Ka	D 400AC - Access continuity hourly usage rate plan when D400-AC base plan hour allotment is exceeded.	$20.15	Hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 50 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 64 kbps up/1024 kbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$42.07	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 100 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 128 kbps up/1024 kbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$62.17	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 200 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 256 kbps up/1536 kbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply.This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$133.95	Per Month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 300 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 512 kbps up/2048 kbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$239.23	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 400 - Private Network Service Plan with burstable data rates. Requires HN9500 and minimum of a .98 m antenna. Maximum speeds Up To: 1024 kbps up/3072 kbps down. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$440.23	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 50AC - Access continuity plan. Maximum speeds Up To: 64 kbps up/1024 kbps down. Up to 36 hrs/site/mo. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$33.45	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 100AC - Access continuity plan. Maximum speeds Up To: 128 kbps up/1024 kbps down. Up to 36 hrs/site/mo. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply.This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$43.02	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 200AC - Access continuity plan. Maximum speeds Up To: 256 kbps up/1536 kbps down. Up to 36 hrs/site/mo. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$76.52	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 300AC - Access continuity plan. 512 kbps up/2048 kbps down. Up to 36 hrs/site/mo. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply.This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$124.38	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 400AC - Access continuity plan. Maximum speeds Up To: 1024 kbps up/3072 kbps down. Up to 36 hrs/site/mo. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. Service is subject to performance as listed in Section 2.3. Table 5. Fair Access Policies apply. This service plan does not include Static Routable IP Address. This service plan requires 12 month commitment.	$248.80	Per Month
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 50AC - Access continuity hourly usage rate plan when S50-AC base plan hour allotment is exceeded.	$4.79	hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 100AC - Access continuity hourly usage rate plan when S100-AC base plan hour allotment is exceeded.	$7.18	hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 200AC - Access continuity hourly usage rate plan when S200-AC base plan hour allotment is exceeded.	$9.57	hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 300AC - Access continuity hourly usage rate plan when S300-AC base plan hour allotment is exceeded.	$14.36	hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network S Plan	HN-Ka	S 400AC - Access continuity hourly usage rate plan when S400-AC base plan hour allotment is exceeded.	$19.14	hourly charge above 36 hrs/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 50 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 64 kbps up/1 mbps down.	$30.22	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 100 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 128 kbps up/1 mbps down.	$45.33	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 200 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 200 kbps up/1.2 mbps down.	$55.40	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 300 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 250 kbps up/1.6 mbps down.	$70.52	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 400 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 300 kbps up/2 mbps down.	$100.74	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 500 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 512 kbps up/3 mbps down.	$171.27	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 600 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 1024 kbps up/3 mbps down.	$272.02	/site/mo
132-55 HN-Ka-Private Network Internet Overlay Plan	HN-Ka	BI 700 Overlay - Business internet overlay plan. A private network service plan must be purchased first (D-50 to D400/H). Maximum speeds Up To: 1024 kbps up/5 mbps down.	$372.77	/site/mo
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - Per unit - No bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute. Billed per unit. No bundle required.	$0.13	Per Unit
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 1000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute - 1000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$95.71	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 5000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute - 5000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$430.71	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 10,000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute – 10,000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$765.70	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 25,000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute – 25,000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$1,674.97	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 50,000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute – 50,000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$2,632.09	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - 64kbps for 1 Minute - 100,000 unit bundle - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute – 100,000 unit bundle. Bundled minutes can be shared across multiple remotes in network.	$4,785.63	Per Month
132-55 HN-Ka-Private Network - CBR Plan	HN-Ka	SPACEWAY - Constant Bit Rate (CBR) One-Way Connection - Overage Charge with Bundle Plan - Constant Bit Rate One-Way Connection - 64kbps for 1 Minute, charged when allocated bundled plan minutes has been exceeded.	$0.11	Per Unit
132-8 HT Ka HW & Installation				
132-8 HT Ka Hardware and Installation	HT-Ka	HT Ka Hardware & Installation - Customer equipment for use with a HughesNet Business Internet Service Plan. Includes HT1000, .74m antenna, 1W radio & standard enterprise installation. This discounted Hardware price requires minimum 12 months commitment of HughesNet Gen4 Service Plans. Plans only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite	$1,128.97	Each
132-8 HT Ka Hardware and Installation	HT-Ka	HT1100, 0.98m antenna, 1W, standard installation Customer equipment for use with a HughesNet Business Internet Service Plans. . Includes standard installation.	$1,235.97	Each
132-52 HT Ka Internet Access Plan				
132-52 HT-Ka-Internet Access	HT-Ka	Business 50 - Gen4 Business Internet service. Requires HT1000, 0.74m antenna & 1W radio. Download Speed Up to 10 MbpsUpload Speed Up to 1 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 5 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 10 GBMonthly Total Data Allowance is 15 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan	$70.51	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		requires 12 months commitment.Plans only available on EchoStar XVII satellite. Certain geographical areas are not covered by this satellite.		
132-52 HT-Ka-Internet Access	HT-Ka	Business 200 - Gen4 Business Internet service. Requires HT1000, .74m antenna & 1W radio. Download Speed Up to 10 MbpsUpload Speed Up to 1 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 10 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 15 GBMonthly Total Data Allowance is 25 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment.Plans only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite	$80.59	/site/month
132-52 HT-Ka-Internet Access	HT-Ka	Business 300 - Gen4 Business Internet service. Requires HT1000, .74m antenna & 1W radio. Download Speed Up to 10 MbpsUpload Speed Up to 2 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 15 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 20 GBMonthly Total Data Allowance is 35 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment.Plans only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite	$100.75	/site/month
132-52 HT Ka Data Allowance	HT-Ka	Business 400 - Gen4 Business Internet service. Requires HT1000, .74m antenna & 1W radio. Download Speed Up to 15 MbpsUpload Speed Up to 2 MbpsData Allowance (Business - Anytime: 10:01am - 1:59am) 20 GBData Allowance (Business - Bonus Bytes: 2am - 10am) 25 GBMonthly Total Data Allowance is 45 GB.Anti-Virus (up to 3 PCs) included with service planHughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment.Plans only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite	$130.97	Each
132-52 HT Ka Internet Access	HT-Ka	Access 100 Gen4 Business Internet service. Requires HT1100 or HN9000 with .98m antenna & 1W radio. Download Speed Up to 5 Mbps. Upload Speed Up to 1 Mbps. Business Period Usage (Business Period: 8am - 6pm) 5 GB. Anytime usage 5 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment. Plan is only available on the EchoStar XVII or Spaceway 3 satellites.	$60.44	/site/month
132-52 HT Ka Internet Access	HT-Ka	Access 200 Gen4 Business Internet service. Requires HN9000 with .98m antenna & 1W radio. Download Speed Up to 5 Mbps. Upload Speed Up to 1 Mbps. Business Period Usage (Business Period: 8am - 6pm) 20 GB. Anytime usage 5 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment. Plan is only available on the Spaceway 3 satellite.	$80.59	/site/month
132-52 HT Ka Internet Access	HT-Ka	Select 100 Gen4 Business Internet service. Requires HT1100 with .98m antenna & 1W radio. Download Speed Up to 10 Mbps. Upload Speed Up to 1 Mbps. Business Period Usage (Business Period: 8am - 6pm) 20 GB. Anytime usage 10 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment. Plan is only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite.	$80.59	/site/month
132-52 HT Ka Internet Access	HT-Ka	Select 200 Gen4 Business Internet service. Requires HT1100 with .98m antenna & 1W radio. Download Speed Up to 10 Mbps. Upload Speed Up to 2 Mbps. Business Period Usage (Business Period: 8am - 6pm) 30 GB. Anytime usage 10 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires	$100.75	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		12 months commitment. Plan is only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite.		
132-52 HT Ka Internet Access	HT-Ka	Select 300 Gen4 Business Internet service. Requires HT1100 with .98m antenna & 1W radio. Download Speed Up to 10 Mbps. Upload Speed Up to 2 Mbps. Business Period Usage (Business Period: 8am - 6pm) 40 GB. Anytime usage 10 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment. Plan is only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite.	$130.97	/site/month
132-52 HT Ka Internet Access	HT-Ka	Select 400 Gen4 Business Internet service. Requires HT1100 with .98m antenna & 1W radio. Download Speed Up to 15 Mbps. Upload Speed Up to 2 Mbps. Business Period Usage (Business Period: 8am - 6pm) 50 GB. Anytime usage 10 GB. Hughes provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan does not include Static Routable IP Address. This service plan requires 12 months commitment. Plan is only available on the EchoStar XVII satellite. Certain geographical areas are not covered by this satellite.	$161.20	/site/month
132-52 HT Ka Internet Access	HT-Ka	Static IP (1) One Static IP address. For use with the Hughes HN9000 and Access 100 and Access 200 plans only. Requires a 12-month commitment.	$30.23	/site/month
132-52 HT Ka Internet Access	HT-Ka	Static IP (5) Five Static IP addresses. For use with the Hughes HN9000 and Access 100 and Access 200 plans only. Requires a 12-month commitment.	$50.38	/site/month
132-52 HT Ka Data Allowance	HT-Ka	Token - 500MB - Token is a set amount of bandwidth or additional data allowance. This includes additional 500MB data allowances.	$5.00	Each
132-52 HT Ka Data Allowance	HT-Ka	Token - 1GB - Token is a set amount of bandwidth or additional data allowance. This includes additional 1GB data allowances.	$9.00	Each
132-52 HT Ka Data Allowance	HT-Ka	Token - 2GB - Token is a set amount of bandwidth or additional data allowance. This includes additional 2GB data allowances.	$16.00	Each
132-52 HT Ka Data Allowance	HT-Ka	Token - 5GB - Token is a set amount of bandwidth or additional data allowance. This includes additional 5GB data allowances.	$35.00	Each
132-52 HT Ka Data Allowance	HT-Ka	Token - 10GB - Token is a set amount of bandwidth or additional data allowance. This includes additional 10GB data allowances.	$60.00	Each
132-8 HN Ku Hardware and Installation				
132-8 HN Ku Hardware and Installation	HN-Ku	HN7700, .98m antenna, 2 watt RFU, standard installation - Customer equipment for use with a HughesNet ENT Access Plan. Includes standard installation.	$2,034.86	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN7700, 1.2m antenna, 2 watt RFU, standard installation - Customer equipment for use with a HughesNet ENT Access Plan. Includes standard installation.	$2,167.86	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN7700, 1.8m antenna, 2 watt RFU, standard installation - Customer equipment for use with a HughesNet ENT Access Plans. Includes standard installation.	$3,103.27	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN7000S, .98m antenna, 2 watt RFU, standard installation - Customer equipment for use with a HughesNet IA Access Plan. (HN7000S – IA50, IA100, IA150, IA200, IA300). Includes standard installation. Available in the event of LOS issues when ordering HN9000 and BI Plans.	$1,308.74	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN9400 or HN9460 - Standard Installation, 0.98m, 2W - Customer equipment for use with a Hughes Ku Access Plan. Includes standard installation.	$2,268.31	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN9400 or HN9460- Standard Installation, 1.2m, 2W - Customer equipment for use with a Hughes Ku Access Plan. Includes standard installation.	$2,457.73	Each
132-8 HN Ku Hardware and Installation	HN-Ku	HN9400 or equivalent - Standard Installation, 1.8m, 2W - Customer equipment for use with a Hughes Ku Access Plan. Includes standard installation.	$3,313.91	Each
132-8 HN-Ku-HW and Installation - De-icing	HN-Ku	De-icing for .98m, installed with remote - Deicing element for .98 m antenna and installation during the initial installation of the HughesNet remote terminal. Applicable to HN7700 & HN7000 only.	$831.40	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
132-8 HN-Ku-HW and Installation - De-icing	HN-Ku	De-icing for 1.2m, installed with remote - Deicing element for 1.2 m antenna and installation during the initial installation of the HughesNet remote terminal. Applicable to HN7700 & HN7000 only.	$970.05	Each
132-8 HN-Ku-HW and Installation - De-icing	HN-Ku	De-icing for 1.8m, installed with remote - Deicing for 1.8 m antenna and installation during the initial installation of the HughesNet remote terminal Applicable to HN7700 & HN7000 only.	$1,025.41	Each
132-8 HN-Ku-HW and Installation - De-icing	HN-Ku	Electric circuit for de-icing - Electrical circuit installed for powering de-icing equipment.	$805.99	Each
132-52 HN Ku Internet Access Plan				
132-52 HN-Ku-Internet Access	HN-Ku	IA50 - Internet Access Service. Requires HN7000S and minimum of a .9 8m antenna. Maximum speeds: 128 kbps up/700 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$60.44	/site/mo
132-52 HN-Ku-Internet Access	HN-Ku	IA100 - Internet Access Service. Requires HN7000S and minimum of a .9 8m antenna. Maximum speeds: 200 kbps up/1000 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$70.50	/site/mo
132-52 HN-Ku-Internet Access	HN-Ku	IA150 - Internet Access Service. Requires HN7000S and minimum of a .9 8m antenna. Maximum speeds: 200 kbps up/1500 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$80.59	/site/mo
132-52 HN-Ku-Internet Access	HN-Ku	IA200 - Internet Access Service. Requires HN7000S and minimum of a .9 8m antenna. Maximum speeds: 300 kbps up/1500 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$100.74	/site/mo
132-52 HN-Ku-Internet Access	HN-Ku	IA300 - Internet Access Service. Requires HN7000S and minimum of a .9 8m antenna. Maximum speeds: 500 kbps up/2000 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$181.34	/site/mo
132-52 HN-Ku-Internet Access	HN-Ku	IA400 - Internet Access Service. Requires HN7000S and minimum of a 1.2m antenna. Maximum speeds: 1000 kbps up/2500 kbps down. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires 12 month commitment	$407.15	/site/mo
132-52 HN Ku Private Network Service Plan				
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 100 - Enterprise 100 service suited for credit card and point of sale transactions. Requires HN7700 and minimum of .98 m antenna. Maximum speeds: 64 kbps up/256 kbps down.Fair Access Policies apply. This service requires a Private IP Gateway implementation and Vision Access for customer provided Tier 1/Tier 2 support. This service plan requires 12 month commitment.	$34.45	/site/mo
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 200 - Enterprise 200 service suited for credit card, polling PC remote control and Intranet. Requires HN7700 and minimum of .98 m antenna. Maximum speeds: 128 kbps up/j1024 kbps down. Fair Access Policies apply. This service requires a Private IP Gateway implementation and Vision Access for customer provided Tier 1/Tier 2 support. This service plan requires 12 month commitment.	$39.89	/site/mo
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 300 - Enterprise 300 service suited for credit card, polling PC remote control and Intranet. Requires HN7700 and minimum of .98 m antenna. Maximum speeds: 256 kbps up/1544 kbps down. Fair Access Policies apply.This service requires a Private IP Gateway implementation and Vision Access for customer provided Tier 1/Tier 2 support. This service plan requires 12 month commitment.	$58.93	/site/mo
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 400 - Enterprise 400 service suited for credit card, polling PC remote control, Intranet and full Internet. Requires HN7700 and minimum of .98 m antenna. Maximum speeds: 256 kbps up/1544 kbps down. Fair Access Policies apply.This service requires a Private IP Gateway implementation and Vision Access for customer	$81.60	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
		provided Tier 1/Tier 2 support. This service plan requires 12 month commitment.		
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 800 - Enterprise 800 service. Requires HN7700 and minimum of a .98 m antenna. Maximum speeds: 512 kbps up/1544 kbps down. Fair Access Policies apply.This service requires a Private IP Gateway implementation and Vision Access for customer provided Tier 1/Tier 2 support. Requires a minimum order of 40 sites. This service plan requires 12 month commitment.	$181.35	/site/mo
132-52 HN-Ku- Managed Broadband	HN-Ku	Enterprise 900 - Enterprise 900 service. Requires HN7700 and minimum of a 1.2 m antenna. Typical throughput rates: 1024 kbps up/204 8kbps down. Fair Access Policies apply. This service requires a Private IP Gateway implementation and Vision Access for customer provided Tier 1/Tier 2 support. Requires a minimum order of 40 sites. This service plan requires 12 month commitment.	$362.71	/site/mo
132-52 HN Ku Dedicated BW Private Network				
132-52 HN-Ku -Service	HN-Ku- NOC Service	HN NOC Operations & Engineering Program Management NOC Support and Network Engineering Management backhaul maintenance and support. Internet access at GTN for management VPN Customer must provide internet access at NOC. - HN NOC Program Management NOC Support and Network Engineering Management backhaul maintenance and support. Internet access at GTN for management VPN Customer must provide internet access at NOC	$5,757.00	Per Month
132-52 HN-Ku -Service	HN-Ku-NOC Service	HN NOC Hughes Hosting and Facility Charges Hughes RFT Operations, RF Engineering, and Maintenance Rack Space at Hughes NOC Electric UPS & Diesel Generator Service - Hughes RFT Operations, RF Engineering, and Maintenance Rack Space at Hughes NOC Electric UPS & Diesel Generator Service	$2,584.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	1Mbps DVB-S2 Outroute Capacity - Includes HN NOC Infrastructure, Hosting & Support 1 Mbps of Outroute capacity. - Fixed monthly fee associated with 1 Mbps of Outroute capacity for HN service .This service requires a 12 month commitment.	$7,485.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	256 Kbps Introute Capacity: Includes HN NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 256kbps of Introute capacity for HN service .This service requires a 12 month commitment.	$2,754.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	512 Kbps Introute Capacity: Includes HN NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 512kbps of Introute capacity for HN service .This service requires a 12 month commitment.	$5,507.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	1024 Kbps Introute Capacity: Includes HN NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 1024 kbps of Introute capacity for HN service .This service requires a 12 month commitment.	$11,014.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	2048 Kbps Introute Capacity: Includes HN NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 2048 kbps of Introute capacity for HN service .This service requires a 12 month commitment.	$22,028.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Dedicated BW Service	Remote NOC Access 24x7 NOC Operations Tier 3 Helpdesk Customer Gateway Access Advanced Network Management Portal Access Network Engineering - 24x7 NOC Operations Tier 3 Helpdesk Customer Gateway Access Advanced Network Management Portal Access Network Engineering	$38.00	Per Site Per Month
132-52 HN-Ku -Service	HN-Ku-Private Network Service	HN Private Network Hardware: Dedicated, Redundant IPGW; Dedicated, Redundant TurboPage Servers ; Proactive Monitoring Infrastructure - Dedicated, Redundant IPGW. Dedicated, Redundant TurboPage Servers Proactive Monitoring Infrastructure	$1,220.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Service- Operations Support: Program Management & Network Engineering	HN Service Operations Support: Program Management & Network Engineering - Program Management. Network Engineering	$1,914.00	Per Month
132-52 HN-Ku -Service	HN-Ku- NOC Service	HN NOC - HW & SW Maintenance - HN NOC - HW & SW Maintenance	$3,051.00	Per Month
132-52 HN-Ku -Service	HN-Ku-Service	HN Service Backhaul Charges - NLV SONET ring Access Fee - Customer provided Backhaul - HN Service Backhaul Charges- NLV SONET ring Access Fee - Customer provided Backhaul	$1,149.00	Per Month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-52 HN-Ku -Service	HN-Ku-Service	HughesNet HN Auto Cross Pol Service - Includes access to Auto Cross Pol Infrastructure. Includes access to Auto Cross Pol Infrastructure - Includes access to Auto Cross Pol Infrastructure	$2,388.00	Per Month
132-52 HN-Ku- Managed Broadband - Access Continuity				
132-52 HN-Ku- Managed Broadband - Access Continuity	HN-Ku	Access Continuity 100 - Access Continuity 100 is suited for supporting a maximum of 5% of the users network on satellite at any given time. Requires a HN7700 and a minimum of .98 m antenna. Maximum speeds: 256 kbps up/1024 kbps down. Fair Access Policies apply.This service plan requires a 12 month commitment.	$54.40	/site/mo
132-52 HN-Ku- Managed Broadband - Access Continuity	HN-Ku- Managed Broadband - Access Continuity	Access Continuity 200 - Access Continuity 200 is suited for supporting a maximum of 5% of the users network on satellite at any given time. Requires a HN7700 and a minimum of .98 m antenna. Maximum speeds: 512 kbps up/2048 kbps down. Fair Access Policies apply. This service plan requires a 12 month commitment.	$77.07	/site/mo
132-52 HN-Ku- Managed Broadband - Access Continuity	HN-Ku- Managed Broadband - Access Continuity	Access Continuity 500 - Access Continuity 500 is suited for supporting a maximum of 5% of the users network on satellite at any given time. Requires a HN7700 and a minimum of 1.2 m antenna. Maximum speeds: 1024 kbps up/2048 kbps down. This service plan requires a 12 month commitment.	$181.35	/site/mo
132-55 HN-Ku- Managed Broadband - Access Continuity	HN-Ku- Managed Broadband - Access Continuity	NOC Access 100 - NOC Access is required for any site that has subscribed to Dedicated/Guaranteed Out-route Bandwidth Service. This service requires a 12 month commitment.	$18.14	/site/mo
132-55 HN-Ku- Managed Broadband - Access Continuity	HN-Ku- Managed Broadband - Access Continuity	NOC Access 200 - NOC Access is required for any site that has subscribed to Dedicated/Guaranteed Out-route Bandwidth Service. This service requires a 12 month commitment.	$36.27	/site/mo
132-55 HN-Ku- Managed Broadband - Access Continuity	HN-Ku- Managed Broadband - Access Continuity	NOC Access 300 - NOC Access is required for any site that has subscribed to Dedicated/Guaranteed Out-route Bandwidth Service. This service requires a 12 month commitment.	$54.41	/site/mo
132-8 HX Ku Hardware Network Service Plan				
132-8 HX Ku Hardware	HX-Ku	HX50 - IDU Only - Customer equipment for use with a HX service plans.	$771.00	Each
132-8 HX Ku Hardware	HX-Ku	HX200 - IDU Only - Customer equipment for use with a HX service plans.	$1,383.00	Each
132-8 HX Ku Hardware	HX-Ku	HX200 - Mobility Software License - Customer equipment for use with a HX service plans.	$1,814.00	Each
132-8 HX Ku Hardware	HX-Ku	HX260 - IDU Only, 4 Channel Mesh License - Customer equipment for use with a HX service plans.	$5,441.00	Each
132-8 HX-Ku-HW-Installation	HX-Ku	HX50 - Std Installation, 0.98m, 2W - Customer equipment for use with a HX service plans.	$2,172.00	Each
132-8 HX-Ku-HW-Installation	HX-Ku	HX50 - Std Installation, 1.2m, 2W - Customer equipment for use with a HX service plans.	$2,353.00	Each
132-8 HX-Ku-HW-Installation	HX-Ku	HX50 - Std Installation, 1.8m, 2W - Customer equipment for use with a HX service plans.	$2,988.00	Each
132-8 HX-Ku-HW-Package	HX-Ku	HX50 - 0.98m, 2W - HW Only - Customer equipment for use with a HX service plans.	$1,337.00	Each
132-8 HX-Ku-HW-Package	HX-Ku	HX50 - 1.2m, 2W - HW Only - Customer equipment for use with a HX service plans.	$1,437.00	Each
132-8 HX-Ku-HW-Package	HX-Ku	HX50 - 1.8m, 2W - HW Only - Customer equipment for use with a HX service plans.	$1,836.00	Each
132-8 HX-Ku-HW-BUC	HX-Ku	2W Radio - Customer equipment for use with a HX service plans.	$340.00	Each
132-8 HX-Ku-HW-Antenna	HX-Ku	0.74m Antenna (Prodelin) - 0.74m Antenna (Prodelin)	$126.00	Each
132-8 HX-Ku-HW-Antenna	HX-Ku	0.98m Antenna - Customer equipment for use with a HX service plans.	$240.00	Each
132-8 HX-Ku-HW-Antenna	HX-Ku	1.2m Antenna - Customer equipment for use with a HX service plans.	$345.00	Each
132-8 HX-Ku-HW-Antenna	HX-Ku	1.8m Antenna - Customer equipment for use with a HX service plans.	$784.00	Each
132-8 HX-Ku-HW-Antenna	HX-Ku	2.4m Antenna (Prodelin) - 2.4m Antenna (Prodelin)	$2,871.00	Each
132-8 HX Electric Deicing				
132-8 HX-Ku-HW- Electric Deicing	HX-Ku	0.98m Antenna (Prodelin) - AntiIce Incremental - 0.98m Antenna (Prodelin) - AntiIce Incremental	$1,002.00	Each
132-8 HX-Ku-HW- Electric Deicing	HX-Ku	1.2m Antenna (Prodelin) - AntiIce Incremental - 1.2m Antenna (Prodelin) - AntiIce Incremental	$1,033.00	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
132-8 HX-Ku-HW- Electric Deicing	HX-Ku	1.8m Antenna (Prodelin) - AntiIce Incremental - 1.8m Antenna (Prodelin) - AntiIce Incremental	$1,103.00	Each
132-8 HX Saturated Radios				
132-8 HX-Ku-HW-Saturated Radios	HX-Ku	1 W Radio - Ku	$196.00	Each
132-8 HX-Ku-HW-Saturated Radios	HX-Ku	2 W Radio - Ku	$297.00	Each
132-8 HX Linear BUC, LNB, POWER SUPPLY				
132-8 HX-Ku-HW-Linear BUC	HX-Ku	2 W Linear BUC - Ku	$302.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	3 W Linear BUC - Ku	$390.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	4 W Linear BUC - Ku	$1,171.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	6 W Linear BUC - Ku	$1,322.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	8 W Linear BUC - Ku	$4,156.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	5 W Linear BUC - C	$1,108.00	Each
132-8 HX-Ku-HW-Linear BUC	HX-Ku	10 W Linear BUC - C	$6,045.00	Each
132-8 HX-Ku-HW-LNB	HX-Ku	LNB - Ku Low Stability	$42.00	Each
132-8 HX-Ku-HW-LNB	HX-Ku	LNB - Extended C Band Low Stability	$89.00	Each
132-8 HX-Ku-HW-LNB	HX-Ku	Ext PLL - Ku High Stability (for HX260)	$161.00	Each
132-8 HX-Ku-HW-LNB	HX-Ku	Ext PLL - C High Stability (for HX260)	$232.00	Each
132-8 HX-Ku-HW-DC Power Supply	HX-Ku	48VDC Power Supply (HX200/260/280)	$297.00	Each
132-55 HX Dedicated Bandwidth Service Plan				
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Download Allowance: 220MB) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$219.00	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Download Allowance: 440MB) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$331.61	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Download Allowance: 880MB) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR – typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$456.62	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Download Allowance: 1,340MB) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$682.72	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Download Allowance: 4,420MB) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$1,753.79	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Download Allowance: 8,840MB) - High Quality Internet service on CONUS Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.	$3,799.29	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an	$241.17	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.		
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$364.41	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$502.73	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$750.99	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$1,929.35	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.	$4,178.78	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$273.97	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$414.07	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$571.00	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$853.84	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP,	$2,191.80	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.		
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.	$4,748.90	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS --32kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$36.35	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS --64kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$71.82	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS --128kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$144.52	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Download Allowance: 220MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$252.70	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Download Allowance: 440MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$398.11	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Download Allowance: 880MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$543.52	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Download Allowance: 1,340MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$836.11	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Download Allowance: 4,420MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$2,143.03	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Download Allowance: 8,840MB) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP,	$4,747.12	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.		
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$277.52	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$437.12	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$597.60	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$920.34	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$2,356.72	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Unlimited Download Allowance 2AM-7AM EST) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.	$5,222.37	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	128 kbps up/ 256 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$315.65	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 512 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$498.30	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	256 kbps up/ 1024 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$679.17	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HX-Ku-Internet Access	HX-Ku	512 kbps up/ 1544 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$1,045.36	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	1024 kbps up/ 5120 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment per site is required.	$2,678.57	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	3048 kbps up/ 10240 kbps down (Unlimited Download Allowance 24x7) - High Quality Internet service on CONUS & OCONUS coverage Satellite. Requires HX hardware. An application specific CIR - typically used for VoIP, streaming data, or video applications, can be added as an overlay to a given HX Internet Access Circuit. Hughes Program Management is included in this service. Minimum 12 months term commitment and quantity 20 sites is required.	$5,933.46	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS & OCONUS --32kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$45.22	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS & OCONUS --64kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$91.32	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	CIR Options CONUS & OCONUS --128kbps - The CIR only applies to one specific UDP application. When the application traffic is detected by the HX system, the NOC will allocate a lower-latency, lower-jitter, bidirectional CIR transmission path. The selected HX circuit plan must have sufficient up/down maximum performance to support the CIR bandwidth purchased. CIR Usage is subject to the download allowance of the associated circuit plan.	$181.76	/site/month
132-55 HX-Ku-Internet Access	HX-Ku	Private IP Gateway Option - With a minimum order of 20 circuits, HX circuits can be aggregated into a dedicated, private IP Gateway (IPGW). HX Circuits on a private IPGW are subject to the same terms and benefits as Internet access circuits with the additional benefits. This Gateway is not shared with any other customers. Hughes Program Management is included in this service.	$1,130.48	/month
132-55 HX-Ku-Internet Access	HX-Ku	Private TurboPage Web Acceleration Option - With a minimum order of 20 circuits, HX circuits can be aggregated into a dedicated, private TurboPage Web Acceleration. HX Circuits on a private IPGW are subject to the same terms and benefits as Internet access circuits with the additional benefits. This server is not shared with any other customers.Hughes Program Management is included in this service.	$731.49	/month
132-55 HX-Ku -Service	HX-Ku- NOC Service	HX NOC Operations & Engineering Program Management NOC Support and Network Engineering Management backhaul maintenance and support. Internet access at GTN for management VPN Customer must provide internet access at NOC. - HX NOC Program Management NOC Support and Network Engineering Management backhaul maintenance and support. Internet access at GTN for management VPN Customer must provide internet access at NOC	$5,757.00	Per Month
132-55 HX-Ku-Service	HX-Ku-NOC Service	HX NOC Hughes Hosting and Facility Charges Hughes RFT Operations, RF Engineering, and Maintenance Rack Space at Hughes NOC Electric UPS & Diesel Generator Service - Hughes RFT Operations, RF Engineering, and Maintenance Rack Space at Hughes NOC Electric UPS & Diesel Generator Service	$2,584.00	Per Month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	1Mbps DVB-S2 Outroute Capacity - Includes HX NOC Infrastructure, Hosting & Support 1 Mbps of Outroute capacity. - Fixed monthly fee associated with 1 Mbps of Outroute capacity for HX service .This service requires a 12 month commitment.	$7,485.00	Per month
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	256 Kbps Introute Capacity: Includes HX NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 256kbps of Introute capacity for HX service .This service requires a 12 month commitment.	$2,754.00	Per month
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	512 Kbps Introute Capacity: Includes HX NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 512kbps of Introute capacity for HX service .This service requires a 12 month commitment.	$5,507.00	Per month
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	1024 Kbps Introute Capacity: Includes HX NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 1024 kbps of Introute capacity for HX service .This service requires a 12 month commitment.	$11,014.00	Per month
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	2048 Kbps Introute Capacity: Includes HX NOC Infrastructure, Hosting & Supporting of the capacity. - Fixed monthly fee associated with 2048 kbps of Introute capacity for HX service .This service requires a 12 month commitment.	$22,028.00	Per month
132-55 HX-Ku-Service	HX-Ku-Dedicated BW Service	Remote NOC Access 24x7 NOC Operations Tier 3 Helpdesk Customer Gateway Access Advanced Network Management Portal Access Network Engineering - 24x7 NOC Operations Tier 3 Helpdesk Customer Gateway Access Advanced Network Management Portal Access Network Engineering	$38.00	Per Site Per Month
132-55 HX-Ku-Service	HX-Ku-Private Network Service	HX Private Network Hardware: Dedicated, Redundant IPGW; Dedicated, Redundant TurboPage Servers; Proactive Monitoring Infrastructure - Dedicated, Redundant IPGW. Dedicated, Redundant TurboPage Servers Proactive Monitoring Infrastructure	$1,220.00	Per Month
132-55 HX-Ku-Service	HX-Ku- NOC Service	HX NOC - HW & SW Maintenance - HX NOC - HW & SW Maintenance	$3,051.00	Per Month
132-55 HX-Ku-Service	HX-Ku-Service	HN/HX Service Backhaul Charges- NLV SONET ring Access Fee - Customer provided Backhaul - HN/HX Service Backhaul Charges- NLV SONET ring Access Fee - Customer provided Backhaul	$1,149.00	Per Month
132-55 HX-Ku-Service	HX-Ku-Service	HughesNet HX Auto Cross Pol Service - Includes access to Auto Cross Pol Infrastructure. Includes access to Auto Cross Pol Infrastructure - Includes access to Auto Cross Pol Infrastructure	$2,388.00	Per Month
132-8 Managed Broadband - ADSL HW and Installation				
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - ADSL	ADSL router, shared-line installation - ADSL router for use with a HughesNet Access Plan. Includes standard shared-line installation. Does not include integrated dial-up modem.	$947.10	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - ADSL	ADSL router with integrated dialup modem, shared-line installation - ADSL router for use with a HughesNet Access Plan. Includes standard shared-line installation. Does not include integrated dial-up modem.	$991.44	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - ADSL	ADSL modem, shared-line installation - ADSL modem for use with a HughesNet Access Plan. Includes standard shared-line installation. Requires external router.	$689.17	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	ADSL router, dedicated-line installation - ADSL router for use with a HughesNet Access Plan. Includes standard dedicated-line installation. Does not include integrated dial-up modem.	$1,225.19	Each
132-8 Managed Broadband - HW & Installation	Managed Broadband	Hughes Managed HR4700 Branch Gateway or equivalent route -- 40Hughes Managed HR4700 Branch Gateway or equivalent router that is required for Hughes managed broadband service . Includes standard installation and broadband modem.	$1,269.52	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	ADSL modem, dedicated-line installation - ADSL modem for use with a HughesNet Access Plan. Includes standard dedicated-line installation. Requires external router.	$967.25	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	SDSL/IDSL router, dedicated-line installation - SDSL/IDSL router for use with a HughesNet Access Plan. Includes standard dedicated-line installation. Does not include integrated dial-up modem.	$1,249.37	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Shared-line Installation - Standard shared-line installation with compatible customer provided DSL router/modem.	$620.91	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		For use with DSL Managed Services.		
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Dedicated-line Installation - Standard dedicated-line installation with compatible customer provided DSL router/modem. For use with DSL Managed Services.	$920.65	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with HN7700S-R -- Level 1 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.) and circuit activation. Each level refers to a single or multiple providers.	$691.35	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with HN7700S-R -- Level 2 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$705.55	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with HN7700S-R -- Level 3 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$757.64	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with HN7700S-R -- Level 4 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$857.08	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with HN7700S-R -- Level 1 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$700.82	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with HN7700S-R -- Level 2 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$757.64	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with HN7700S-R -- Level 3 - This includes standard commercial grade installation, HN7700S-R router, DSL modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$857.08	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with Cisco -- Level 1 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,003.87	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with Cisco -- Level 2 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,018.08	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with Cisco -- Level 3 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation.	$1,046.49	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Shared Line with Cisco -- Level 4 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,070.17	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with Cisco -- Level 1 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,003.87	Each
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with Cisco -- Level 2 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple	$1,060.70	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		providers.		
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - DSL	Hughes ADSL Dedicated Line with Cisco -- Level 3 - This includes standard commercial grade installation, Cisco 877 DSL router or similar , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,169.61	Each
132-52 Managed Broadband - DSL - Service				
132-52 Managed Broadband - DSL - Service	Managed Broadband - DSL - Service	Shared ADSL 1.5 M / 128K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$76.17	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 1.5M/256K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$77.08	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 1.5M / 384K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$77.98	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 3.0M / 384K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$81.61	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 1.5M / 768K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$99.75	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 1.5M / 512K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$126.95	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 1.5M-3.0M/384K-512K; Shared ADSL 3.0M-6.0M/512k-768K ; Shared ADSL 3.0M/640K ; Shared ADSL 3.0M/768K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months	$126.95	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
		commitment.		
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Shared ADSL 5.0 M / 768K; Shared ADSL 6.0M / 7 68K; Shared ADSL 7.1M / 768K; Shared ADSL 12.0M / 768K - Managed broadband service access type is Shared DSL or equivalent. This aslo includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$136.02	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 1.5M / 384K - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$121.51	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 3.0M / 384K - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$122.42	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 1.5M/512K Dedicated ADSL 1.5M/ 768K; Dedicated ADSL 1.5M/896K; Dedicated ADSL 3.0M/384K - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$140.55	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 3.0 Mbps/512 Kbps; Dedicated ADSL 3.0 Mbps/640 Kbps - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$167.76	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 3.0 Mbps /768 Kbps; Dedicated ADSL 5.0 Mbps/768 Kbps; Dedicated ADSL 6M /768Kbps - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$167.76	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated ADSL 6M /768Kbps ; Dedicated ADSL 7.1 M /768Kbps ; Dedicated ADSL 10.0Mbps/1.0Mbps ; Dedicated ADSL 12M/768K ; Dedicated ADSL 12.0M/896k ; Dedicated ADSL 12M/1M ; Dedicated ADSL 12.0M / 2M ; Dedicated ADSL 12.0/5M ; Dedicated ADSL 20.0/896K ; Dedicated ADSL 20.0/2M ; Dedicated ADSL 3M-7M/896 ; Dedicated ADSL 3M-7M/2M ; Dedicated ADSL 3M-7M/5M - Managed broadband service access type is Dedicated DSL or equivalent. This also includes VPN service. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. Requires Hughes Managed Router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a	$176.83	/site/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
		particular location. This service plan requires 12 months commitment.		
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	IDSL 144 - IDSL service at 144 kbps upstream and 144 kbps downstream. Requires IDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$134.21	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	SDSL 192 - SDSL service at 192 kbps upstream and 192 kbps downstream. Requires SDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$134.21	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	SDSL 384 - SDSL service at 384 kbps upstream and 384 kbps downstream. Requires SDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$156.88	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	SDSL 768 - SDSL service at 768 kbps upstream and 768 kbps downstream. Requires SDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$188.61	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	SDSL 1.1 - SDSL service at 1.1 mbps upstream and 1.1 mbps downstream. Requires SDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$226.70	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	SDSL 1.5 - SDSL service at 1.5 mbps upstream and 1.5 mbps downstream. Requires SDSL router. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$254.81	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Dedicated Line ADSL - Dedicated line fee for ADSL service plans. This is an additional fee to ADSL service plan fees. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$17.23	/site/mo
132-52 Managed Broadband - DSL – Service	Managed Broadband - DSL - Service	Expanded Coverage ADSL - Expanded coverage for ADSL service plans. This is an additional fee to ADSL service plan fees. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires a 12 month commitment.	$41.71	/site/mo
132-52 Managed Broadband - POTS – Service	Managed Broadband - POTS - Service	Hughes POTS Services - For some locations shared line ADSL service may not be available on the existing telephone line (e.g. due to third party voice service). Hughes can install a new telephone line which will be used to support the shared line ADSL service.	$40.72	/site/month
132-8 Managed Broadband - Cable HW and Installation				
132-8 Managed Broadband - DSL HW and Installation	Managed Broadband - Cable	HughesNet HN7700SR router, cable modem, Installation	$630.00	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with HN7700S-R -- Level 1 - This includes standard commercial grade installation, HN7700S-R router, cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$700.82	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with HN7700S-R -- Level 2 - This includes standard commercial grade installation, HN7700S-R router, cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$752.90	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with HN7700S-R -- Level 3 - This includes standard commercial grade installation, HN7700S-R router, cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$809.73	Each
132-8 Managed Broadband - Cable	Managed Broadband - Cable	Hughes Cable with HN7700S-R -- Level 4 - This includes	$833.40	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
HW and Installation		standard commercial grade installation, HN7700S-R router, cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.		
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with HN7700S-R -- Level 5 - This includes standard commercial grade installation, HN7700S-R router, cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$956.52	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with Cisco -- Level 1 - This includes standard commercial grade installation, Cisco 877 router or similar , cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,060.70	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with Cisco -- Level 2 - This includes standard commercial grade installation, Cisco 877 router or similar , cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,117.52	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with Cisco -- Level 3 - This includes standard commercial grade installation, Cisco 877 router or similar , cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,169.61	Each
132-8 Managed Broadband - Cable HW and Installation	Managed Broadband - Cable	Hughes Cable with Cisco -- Level 4 - This includes standard commercial grade installation, Cisco 877 router or similar , cable modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,193.28	Each
132-8 Managed Broadband - Cable or Fiber HW & Installation	Managed Broadband - Cable or Fiber	Hughes Managed HR4700 Branch Gateway or Cisco or equivalent router --This includes standard commercial grade installation, Hughes Managed HR4700 Branch Gateway or equivalent Cisco router or similar that is required for Hughes managed broadband service, cable or fiber modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation..	$1,311.66	Each
132-52 Managed Broadband - Cable - Service				
132-52 Managed Broadband - Cable - Service	Cable Service – 384 kbps up/2000 kbps down	Broadband Speed: 2.0Mbps / 384Kbps; Express: 1.5 Mbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$122.00	Per Month
132-52 Managed Broadband - Cable - Service	Cable Service – 256 kbps up/1500 kbps down	Broadband Speed: 1.5Mbps / 256Kbps - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$124.43	Per Month
132-52 Managed Broadband - Cable - Service	Hughes Cable Services – 256 kbps/1.0 Mbps	Broadband Speed: 1.5Mbps/ 256Kbps - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$131.64	/site/month
132-52 Managed Broadband - Cable - Service	Hughes Cable Services – 2.0 Mbps/15.0 Mbps	Broadband Speed: 15.0Mbps / 2.0Mbps; Pro: 3 Mbps - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN	$131.64	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
		backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.		
132-52 Managed Broadband - Cable - Service	Cable Service – 384 kbps up/1500 kbps down	Broadband Speed: 1.5.0Mbps / 384Kbps; 1.5.0Mbps / 512Kbps; 15.0Mbps/5.0 Mbps; Elite: 6 Mbps - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$143.57	Per Month
132-52 Managed Broadband - Cable - Service	Hughes Cable Services – 1.0 Mbps/6.0 Mbps	Broadband Speed: 6.0Mbps / 1.0Mbps; Max: 12 Mbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$151.53	/site/month
132-52 Managed Broadband - Cable - Service	Cable Service – 384 kbps up/3000 kbps down	Broadband Speed: 3.0Mbps / 384Kbps; 20.0Mbps / 3.0Mbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$179.00	Per Month
132-52 Managed Broadband - Cable - Service	Cable Service – 384 kbps up/5000 kbps down	Broadband Speed : 50.0Mbps/25 Mbps; 16.0 Mbps/3.0 Mbps; 7 Mbps/768 Kbps; 6.0 Kbps/1.0Mbps; 5.0Mbps/384Kbps; 15M X 5M; 50Mx25M; MaxPlus:18 Mbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$190.00	Per Month
132-52 Managed Broadband - Cable - Service	Cable Service – 512 kbps up/5000 kbps down	Broadband Speed: 5.0Mbps / 512Kbps; 10.0 Mbps/2.0 Mbps; 10 Mbps/1 Mbps; 30.0 Mbps/4.0 Mbps; 27.0 Mbps/7.0 Mbps; 25Mx10M; 75Mx35M; MaxTurbo: 24 Mbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$265.00	Per Month
132-52 Managed Broadband - Cable - Service	Cable Service – 768 kbps up/5000 kbps down	Broadband Speed: 5.0Mbps/ 768Kbps; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$268.00	Per Month
132-52 Managed Broadband - Cable - Service	Cable Service – 1000 kbps up/6000 kbps down	Broadband Speed : 6.0Mbps / 1.0Mbps; 35Mx15M; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required.	$273.00	Per Month

Product Category	Product Type	Product/Service	GSA Price	Unit
		Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.		
132-52 Managed Broadband - Cable - Service	Cable Service – 1500 kbps up/5000 kbps down	Broadband Speed: 5.0Mbps/1.5Mbps; 15.0 Mbps/3.0 Mbps; 15 Mbps/2 Mbps; 12 Mbps/1.5 Mbps; 101 Mbps/35 Mbps; 50Mx20M; - Managed broadband service access type is cable or fiber or equivalent. This also includes VPN service. Requires Hughes Managed Router. Speed of the service may vary based on location and distance from central office. The line is usually up to the speed as defined in service name. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment.	$300.00	Per Month
132-8 Managed Broadband- Cellular Wireless HW and Installation				
132-8 Managed Broadband- Cellular Wireless HW and Installation	Managed Broadband- Cellular Wireless	HN7700SR, Cellular Wireless Router with Aircard - HughesNet HN7700SR router, Cellular Wireless router with aircard, Installation	$807.01	Each
132-8 Managed Broadband- Cellular Wireless HW and Installation	Managed Broadband- Cellular Wireless	HughesNet HN7700SR router, Cellular Wireless router without aircard, Installation - Customer equipment for use with cellular service plans.	$1,179.00	Each
132-8 Managed Broadband- Cellular Wireless HW and Installation	Managed Broadband - Cellular Wireless	Hughes EVDO with HN7700S-R --fixed site - This includes standard commercial grade installation, HN7700S-R router, EVDO modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,098.58	Each
132-8 Managed Broadband- Cellular Wireless HW and Installation	Managed Broadband - Cellular Wireless	Hughes EVDO with Cisco -- fixed site - This includes standard commercial grade installation, Hughes Managed HR4700 Branch Gateway or equivalent Cisco router or similar router , EVDO modem, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation.	$1,477.40	Each
132-8 Managed Broadband- 3G/4G Wireless HW & Installation	Managed Broadband- 3G/4G Wireless	Hughes Managed HR4700 Branch Gateway or equivalent router, Cradlepoint CBA750B, MC200LE, PoE support -- fixed site - This includes standard commercial grade installation, Hughes Managed HR4700 Branch Gateway or equivalent router, Cradlepoint CBA750B, MC200LE, PoE support, 3G/4G service equipment , cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation.	$2,282.12	Each
132-8 Managed Broadband- Cellular Wireless	Managed Broadband - Cellular Wireless	Hughes EVDO Exterior Antenna - EVDO Exterior Antenna kit, Includes installation while already on site for the WAN installation. This includes standard commercial grade installation up to 50 feet of cabling.	$355.14	Each
132-8 Managed Broadband- Cellular Wireless	Managed Broadband - Cellular Wireless	HughesNet HN7700SR router, Cellular Wireless router with aircard, Installation - HughesNet HN7700SR router, Cellular Wireless router with aircard, Installation	$807.00	Each
132-52 Managed Broadband- Cellular Wireless - Service				
132-52 Managed Broadband- Cellular Wireless - Service	Managed Broadband - Cellular Wireless - Service	Cellular Wireless Service – Limited Usage - Basic cellular wireless service includes VPN service at the following rates, depending on location. Each site is limited to 200 Mbytes per month. For each Mbyte over 200, there is a charge of $1.00. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. This service plan requires 12 month commitment.	$66.95	Per Month
132-52 Managed Broadband- Cellular Wireless - Service	Managed Broadband - Cellular Wireless - Service	Cellular Wireless Service – Unlimited Usage - Unlimited use cellular wireless service includes VPN service at the following rates, depending on location. Customer provided Tier 1/Tier 2. HNS provides Tier 3 support. This service plan requires 12 month commitment.	$95.66	Per Month
132-8 Managed Broadband - T1				
132-8 Managed Broadband - T1	Managed Broadband - T1	Hughes T1 with HN7700S-R and Adtran CSU/DSU -- Level 1 - Price includes standard commercial grade installation, HN7700S-R router, Private line CSU/DSU, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$994.40	Each
132-8 Managed Broadband - T1	Managed Broadband - T1	Hughes T1 with HN7700S-R and Adtran CSU/DSU -- Level 2 - Price includes standard commercial grade installation, HN7700S-R router, Private line CSU/DSU, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,278.52	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
132-8 Managed Broadband - T1	Managed Broadband - T1	Hughes T1 with Cisco and Adtran CSU/DSU -- Level 1 - Price includes standard commercial grade installation, Cisco 877 or similar, Private line CSU/DSU, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,359.02	Each
132-8 Managed Broadband - T1	Managed Broadband - T1	Hughes Managed HR4700 Branch Gateway or Cisco or equivalent router and Adtran CSU/DSU - Price includes standard commercial grade installation, Hughes Managed HR4700 Branch Gateway or Cisco or equivalent router and Adtran CSU/DSU, cabling from the router to single IP device located in the same room (up to 25 ft.), and circuit activation. Each level refers to a single or multiple providers.	$1,860.95	Each
132-52 Managed Broadband - T1 – Service				
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (128k/128k) -- Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$501.94	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (256k/256) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$435.64	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (256k/256) --Level 2 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$530.35	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (256k/256) --Level 3 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$572.97	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (384k/384k) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$289.80	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (384k/384k) --Level 2 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$563.49	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (512k/512k) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$459.32	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (512k/512k) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$596.64	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (768k/768k) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$322.00	/site/month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (768k/768k) --Level 2 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$601.38	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (1.0M/1.0M) -- Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$610.85	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (1.5M/1.5M) --Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$355.14	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (1.5M/1.5M) --Level 2 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$558.76	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (1.5M/1.5M) --Level 3 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$639.26	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes T1 (1.5M/1.5M) --Level 4 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$691.35	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes Layer 3 T1 INTERNET (1.5M/1.5M) -- Level 1 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$397.76	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes Layer 3 T1 INTERNET (1.5M/1.5M) -- Level 2 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$421.44	/site/month
132-52 Managed Broadband - T1 – Service	Managed Broadband - T1 - Service	Hughes Layer 3 T1 INTERNET (1.5M/1.5M) -- Level 3 - This includes T1 VPN service. Speed of the service may vary based on location. VPN backhaul or dedicated backhaul is required. Prequalification is performed prior to order to give indication of service availability for a particular location. This service plan requires 12 months commitment. Each level refers to a single or multiple providers.	$506.67	/site/month
132-8 Digital Media - Customer Hosted Solution				
132-8 Digital Media	Customer Hosted Digital Signage	Single Enterprise Server Package for Digital Bulletin Board - Single Hughes Enterprise Media Server (1503988-0070) or Hughes Scala Enterprise Content Manager Server with Dongless Software License key(1503988-0090 & SW-CMS-DL), Professional installation of Media Server, Professional training, Program Management,configuring, background and template creation and testing .	$22,000.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	Redundant Enterprise Signage Servers Package for Digital Bulletin Board - Redundant Hughes Enterprise Media	$31,000.00	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		Servers (1503988-0070) or Hughes Scala Enterprise Content Manager Servers with Dongless Software License key(1503988-0090 & SW-CMS-DL), Professional installation of Media Server, Professional training, Program Management,configuring, background and template creation and testing .		
132-8 Digital Media	Customer Hosted Digital Signage	32" Customer Hosted Digital Bulletin Board Package - 32" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentUp to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$3,501.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	37" Customer Hosted Digital Bulletin Board Package - 37" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentUp to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$3,702.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	42" Customer Hosted Digital Bulletin Board Package - 42" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentUp to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$4,206.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	47" Customer Hosted Digital Bulletin Board Package - 47" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentUp to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$4,483.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	55" Customer Hosted Digital Bulletin Board Package - 55" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentUp to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$4,999.00	Each
132-8 Digital Media - Customer Hosted Solution with Live TV option				
132-8 Digital Media	Customer Hosted Digital Signage	32" Customer Hosted Digital Bulletin Board and TV Encoder Package - 32" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentTV Encoder(or Slingbox),Up to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$3,803.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	37" Customer Hosted Digital Bulletin Board and TV Encoder Package - 37" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentTV Encoder(Slingbox),Up to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$4,055.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	42" Customer Hosted Digital Bulletin Board and TV Encoder Package - 42" Commercial LCD HDTV Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentTV Encoder(or Slingbox),Up to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$4,558.00	Each
132-8 Digital Media	Customer Hosted Digital Signage	47" Customer Hosted Digital Bulletin Board and TV Encoder Package - 47" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV Encoder(or Slingbox),ANNUAL SW MAINT SST-1000 or	$4,810.00	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		equivalentTV Encoder(Slingbox),Up to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management		
132-8 Digital Media	Customer Hosted Digital Signage	55" Customer Hosted Digital Bulletin Board and TV Encoder Package - 55" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV Encoder(or Slingbox),ANNUAL SW MAINT SST-1000 or equivalentTV Encoder(Slingbox),Up to 100' of Ethernet Cable,Up to 6' of HDMI Cable,USB to Serial adapterProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cablingNBD Onsite Field MaintenanceProgram Management	$5,402.00	Each
132-8 Digital Media - Customer Hosted Solution -- Touch Screen				
132-8 Digital Media	Customer Hosted Digital Signage	32" Customer Hosted Hughes Touch Screen Digital Bulletin Board - Hughes LCD, 32-in Interactive Digital Signage ELO MPN 3201L with 3year 48hr OEP or equivalent, Hughes Media Player KIT, HUGHES, HS1000M or equivalent, HS1000M Media Player Annual Maintenance, CABLE ASSY, BLK 6ft HDMI to HDMI, Tripp Lite Surge Arrest 7 Outlet 12 Foot Cord, 120V,Cable, USB 2.0 A Male to B Male 28/24AWG 6',Cable, Cat6 Ethernet, TV Mount w/Mac Mini Bracket, Professional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, NBD Onsite Field Maintenance of the Hughes Media Player, Program Management, professional Installation and shipping.	$5,257.43	Each
132-8 Digital Media	Customer Hosted Digital Signage	42" Customer Hosted Hughes Touch Screen Digital Bulletin Board - Hughes LCD, 42-in Interactive Digital Signage ELO MPN 4201L with 3year 48hr OEP or equivalent, Hughes Media Player KIT, HUGHES, HS1000M or equivalent, HS1000M Media Player Annual Maintenance, CABLE ASSY, BLK 6ft HDMI to HDMI, Tripp Lite Surge Arrest 7 Outlet 12 Foot Cord, 120V,Cable, USB 2.0 A Male to B Male 28/24AWG 6',Cable, Cat6 Ethernet, TV Mount w/Mac Mini Bracket, Professional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, NBD Onsite Field Maintenance of the Hughes Media Player, Program Management, professional Installation and shipping.	$6,047.36	Each
132-8 Digital Media	Customer Hosted Digital Signage	55" Customer Hosted Hughes Touch Screen Digital Bulletin Board - Hughes LCD, 55-in Interactive Digital Signage ELO MPN 5500L with 3year 48hr OEP or equivalent, Hughes Media Player KIT, HUGHES, HS1000M or equivalent, HS1000M Media Player Annual Maintenance, CABLE ASSY, BLK 6ft HDMI to HDMI, Tripp Lite Surge Arrest 7 Outlet 12 Foot Cord, 120V,Cable, USB 2.0 A Male to B Male 28/24AWG 6',Cable, Cat6 Ethernet, TV Mount w/Mac Mini Bracket, Professional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, NBD Onsite Field Maintenance of the Hughes Media Player, Program Management, professional Installation and shipping.	$8,486.65	Each
132-8 Digital Media - Customer Hosted Solution without Display				
132-8 Digital Media	Customer Hosted Digital Signage-No Display	Customer Hosted Digital Signage Package without HD Display - Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentProfessional Media Player Installation, necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter,NBD Onsite Field MaintenanceProgram Management	$2,922.00	Each
132-8 Digital Media	Customer Hosted Digital Signage-No Display	Customer Hosted Digital Signage and TV Encoder Package without HD Display - Media Player(SST-1000 or equivalent) ANNUAL SW MAINT SST-1000 or equivalentTV Encoder(or Slingbox),Professional Media Player Installation, necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter,NBD Onsite Field MaintenanceProgram Management	$3,227.00	Each
132-8 Digital Media	Media Player upgrade	Incremental Media Player Upgrade from HS1000M (or equivalent) to HS2100 (or equivalent) -Incremental charges	$1,140.55	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		to all other bundled packages if customer would like to upgrade the media player HS1000M to Hughes HS2100 (or equivalent) Scala PC Player(PN# 1504593-0002) or equivalent, Scala PC Player Software License Fee(PN# SW-PLAD) or equivalent and Scala PC Player Client Access License(CAL) Fee (PN#SW-CAL-1). *This item requires purchase as part of a package solution*.		
132-8 Digital Media	Digital Media	MAKITO Encoder Appliance - HD/SD H.264 IP Video Encoder - MAKITO Encoder Appliance - HD/SD H.264 IP Video Encoder – Component Analog (Y,Pb,Pr/RGBHV) and Digital Video (DVI) input over DVI-I; up to 1080p60 HD Video or 1280x1024 60Hz Computer; 150 kbps to 15 Mbps; 2ch. analog audio input; 10/100/1000 Ethernet; 5VDC w/ 90-240 VAC External Power with Locking Connector. (HaiVision Part No. of S-290E-DVI or equivalent). Includes installation, configuration & program management. Installation must occur in conjunction with professional service.	$8,545.00	Each
132-8 Digital Media - Hughes Hosted Solution				
132-8 Digital Media	Hughes Hosted Digital Signage	32" Hughes Hosted Digital Bulletin Board Package with HD Display - 32" Commercial LCD HDTV Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$4,730.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	37" Hughes Hosted Digital Bulletin Board Package with HD Display - 37" Commercial LCD HDTV Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$4,931.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	42" Hughes Hosted Digital Bulletin Board Package with HD Display - 42" Commercial LCD HDTV Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$5,435.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	47" Hughes Hosted Digital Bulletin Board Package with HD Display - 47" Commercial LCD HDTV Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$5,737.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	55" Hughes Hosted Digital Bulletin Board Package with HD Display - 55" Commercial LCD HDTV Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months	$6,080.40	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server		
132-8 Digital Media - Hughes Hosted Solution with Live TV option				
132-8 Digital Media	Hughes Hosted Digital Signage	32" Hughes Hosted Digital Bulletin Board with HD Display and TV Encoder Package - 32" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$5,032.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	37" Hughes Hosted Digital Bulletin Board with HD Display and TV Encoder Package - 37" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$5,334.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	42" Hughes Hosted Digital Bulletin Board with HD Display and TV Encoder Package - 42" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$5,838.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	47" Hughes Hosted Digital Bulletin Board with HD Display and TV Encoder Package - 47" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$6,039.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	55" Hughes Hosted Digital Bulletin Board with HD Display and TV Encoder Package - 55" Commercial LCD HDTV Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Installation, installed at Sheetrock Wall with wall mount with Media Player compartment and necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$6,549.22	Each
132-8 Digital Media - Hughes Hosted Solution -- Touch Screen				
132-8 Digital Media	Hughes Hosted Digital Signage	47" Hughes Touch Screen Digital Bulletin Board - Kit, Hughes, SST1000, Cable, USB 2.0 A Male to B Male 28/24 AWG 6', USB to Serial Adapter, Cable, Serial Null Modem 48 in., Cable Assy. HDMI to HDMI 3M, 47" LCD Touch Screen, Annual Software Maintenance of SSt1000,	$8,256.00	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		Professional Installation, Installed at Sheetrock Wall with wall mount with Media player compartment and necessary cabling up to 100' of Ethernet cable, Up to 6' of HDMI cable, USB to serial adapter, 12 months Tier 1 Customer Support, 12 months Hosted Service, Next Business Day On-Site Field Maintenance for SST1000, Access to Hughes Portal to upload, create and Manage the content.		
132-8 Digital Media	Hughes Hosted Digital Signage	42" Hughes Touch Screen Digital Bulletin Board - Kit, Hughes, SST1000, Cable, USB 2.0 A Male to B Male 28/24 AWG 6', USB to Serial Adapter, Cable, Serial Null Modem 48 in., Cable Assy. HDMI to HDMI 3M, 42" LCD Touch Screen, Annual Software Maintenance of SSt1000, Professional Installation, Installed at Sheetrock Wall with wall mount with Media player compartment and necessary cabling up to 100' of Ethernet cable, Up to 6' of HDMI cable, USB to serial adapter, 12 months Tier 1 Customer Support, 12 months Hosted Service, Next Business Day On-Site Field Maintenance for SST1000, Access to Hughes Portal to upload, create and Manage the content.	$7,651.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage	32" Hughes Touch Screen Digital Bulletin Board - Kit, Hughes, SST1000, Cable, USB 2.0 A Male to B Male 28/24 AWG 6', USB to Serial Adapter, Cable, Serial Null Modem 48 in., Cable Assy. HDMI to HDMI 3M, 32" LCD Touch Screen, Annual Software Maintenance of SSt1000, Professional Installation, Installed at Sheetrock Wall with wall mount with Media player compartment and necessary cabling up to 100' of Ethernet cable, Up to 6' of HDMI cable, USB to serial adapter, 12 months Tier 1 Customer Support, 12 months Hosted Service, Next Business Day On-Site Field Maintenance for SST1000, Access to Hughes Portal to upload, create and Manage the content.	$5,939.00	Each
132-8 Digital Media - Hughes Hosted Solution -- without Display				
132-8 Digital Media	Hughes Hosted Digital Signage-No Display	Hughes Hosted Digital Bulletin Board Package without HD Display - Media Player(SST-1000 or equivalent) Annual Software Maintenance of SST-1000 or equivalent Professional Media Player Installation, necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$4,060.00	Each
132-8 Digital Media	Hughes Hosted Digital Signage-No Display	Hughes Hosted Digital Bulletin Board and TV Encoder Package without HD Display - Media Player(SST-1000 or equivalent) TV encoder (Slingbox)Annual Software Maintenance of SST-1000 or equivalentProfessional Media Player Installation, necessary cabling, Up to 100' of Ethernet Cable, Up to 6' of HDMI Cable, USB to Serial adapter, 12 months Teir1 Customer Support12 months Hosted Service Next Business Day On-site Field Maintenance for SST-1000 or equivalentAccess to Hughes Portal to Upload, Create and Manage the Content Requires Internet access in order to connect to the Hughes Digital Bulletin Board Host Server	$4,364.00	Each
132-8 Digital Media	Digital Media - Kiosk	CTO Kiosk Kit with speaker - CTO (Configure-to-Order) Hughes Digital Media Kiosk Kit with Speaker - Includes Hughes Digital Media Kiosk Kit capable of supporting up to 55" monitor in portrait or landscape orientation. Capable of supporting optoinal Hughes Digital Media Player Kit, optional touchscreen monitor and other accesories (Hughes Digital Media Kit/Monitor-ready). Also includes custom Color Vinyl Logo on the front access door (artwork/graphic setup fees included), Professional Installation (2 persons x 5 hrs = up to 10 hours), Program Management (up to 8 hours), standard Overweight/Oversize Shipping (palletized box, 200+ lbs) and Three-year Extended Warranty (Customer pays shipping to return defective unit/Hughes pays shipping on repaired/replaced unit back to customer)	$7,186.00	Each
132-12 Digital Media Maintenance				
132-12 Digital Media	Digital Signage - Customer Support- Tier 1	Tier 1 Customer Support of MediaGate Signage Server for 12 months	$25.19	/Server /month
132-12 Digital Media	Digital Media Player Maintenance	Digital Media Player Maintenance for SST-1000 or equivalent - NBD Onsite Field Maintenance for SST-1000 or equivalent.	$27.71	/Player/month
132-12 Digital Media	Digital Signage - Media Player-Hosting Service	Digital Media Hosted Service	$95.71	/Player/month
132-12 Digital Media	Digital Signage - Server - SW and Field Maintenance	Digital Media Server HW Maintenance, Advanced Warranty Replacement and SW Maintenance	$251.88	/Server /month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-12 Digital Media	Digital Signage-Media Player - Customer Support - Tier 1	Tier 1 Customer Support of Digital Media Player for 12 months	$20.15	/Player/month
132-12 Digital Media	Digital Media Player Support	Incremental Digital Media Player Maintenance - HS2100 (or equivalent) - Incremental monthly charges to support Media Player HS2100 (or equivalent) - SW License, SW Maintenance & HW NBD Field Maintenance *This item requires purchase as part of a package solution*.	$23.62	/Player/month
132-8, 132-52 Digital Media - Hughes Portal				
132-8 Digital Media	Hughes Portal	Hughes Presenter (MS PowerPoint plug-in tool)	$374.57	Each
132-52 Digital Media	Hughes Portal	Hughes PORTAL (Hosted) for initial 500 users	$6,747.92	Per Year
132-52 Digital Media	Hughes Portal	Hughes PORTAL (Hosted) for each additional 500 users	$5,632.65	Per Year
132-50, 132-52, 132-100 Digital Media - Training & Installation				
132-100 Digital Media	Installation Service	Hughes Installation Service Fee - Server installation, Network setup, Configuration, Testing, includes Travel	$2,346.94	Each
132-52 Digital Media	Digital Media	Digital Signage Background and Template Designs	$469.36	Each
132-50 Digital Media	Hughes Training	Hughes Online Training, limited to 6 students - Hughes Online Training, limited to 6 students. Each training unit entitles the customer to web conference training. The training that is provided in conjunction with the Hughes Learning Portal service is delivered via web conference by a Hughes trainer. Those receiving the training will dial in to a Hughes-provided conference number. They will also watch live on their computer, via a Hughes-provided web link, as the Hughes trainer teaches how to use Hughes Learning Portal. Hughes does not record these sessions for later viewing.	$1,877.55	Each
132-8 Guest WiFi HW & Installation				
132-8 Hughes Managed Guest WiFi	Guest WiFi HW and Installation	Hughes Managed Guest Wi-Fi with One (1) Access Point - This includes professional installation of One (1) Aruba AP, Mount, POE injector, Program Management, Configuring AP, Testing & Shipping	$743.48	Each
132-8 Hughes Managed Guest WiFi	Guest WiFi HW and Installation	Hughes Managed Guest Wi-Fi with Two (2) Access Points - This includes professional installation of Two (2) Aruba APs, Mount, POE injector, Program Management, Configuring AP, Testing & Shipping	$1,317.42	Each
132-8 Hughes Managed Guest WiFi	Guest WiFi HW and Installation	Hughes Managed Guest Wi-Fi with Three (3) Access Points - This includes professional installation of Three (3) Aruba APs, Mount, POE injector, Program Management, Configuring AP, Testing & Shipping	$1,892.31	Each
132-52 Guest WiFi Managed Services				
132-52 Hughes Managed Guest WiFi	Guest WiFi Managed Services	Hughes Managed Guest Wi-Fi Services with One (1) Access Point - Hughes Managed Wi-Fi Services Includes: - Network Infrastructure - Network Operations & Support - Access Point Support - Program Management - Call Center Support (Tier 3) - Call Center Support (Tier 1) - Guest Wi-Fi (Tier 1) - One AP Onsite Field Maintenance NBD	$50.20	/site/month
132-52 Hughes Managed Guest WiFi	Guest WiFi Managed Services	Hughes Managed Guest Wi-Fi Services with Two (2) Access Points - Hughes Managed Wi-Fi Services Includes: - Network Infrastructure - Network Operations & Support - Two (2) Access Points Support - Program Management - Call Center Support (Tier 3) - Call Center Support (Tier 1) - Guest Wi-Fi (Tier 1) - Two (2) APs Onsite Field Maintenance NBD	$75.77	/site/month
132-52 Hughes Managed Guest WiFi	Guest WiFi Managed Services	Hughes Managed Guest Wi-Fi Services with Three (3) Access Points - Hughes Managed Wi-Fi Services Includes: - Network Infrastructure - Network Operations & Support - Access Point Support - Program Management - Call Center Support (Tier 3) - Call Center Support (Tier 1) - Guest Wi-Fi (Tier 1) - Three (3) APs Onsite Field Maintenance NBD	$98.50	/site/month
132-52 Dial-up and point to point T1				
132-52 Business Dialup Internet Access	Business Dialup Internet Access	Dial up - Unlimited use, flat rate - Dialup internet access when ordered in conjunction with a Managed Services plan. Includes unlimited use per site per month. Toll charge applies when a local call is not available.	$19.00	/site/mo
132-52 Business Dialup Internet Access	Business Dialup Internet Access	Dial up - Usage based plan - Dialup internet access when ordered in conjunction with a Managed Services plan. Includes 5 hours per month. Hourly usage fee applies when 5 hour allocation is exceeded. Toll charge applies when a local call is not available.	$7.03	/site/mo
132-52 Business Dialup Internet	Business Dialup Internet Access	Dial up - additional hour surcharge for usage based plan -	$1.41	/site/hr

Product Category	Product Type	Product/Service	GSA Price	Unit
Access		Usage based plan surcharge for additional hours over and above the 5 hour allocation.		
132-52 Business Dialup Internet Access	Business Dialup Internet Access	Dial up - Pooled Hour plan - Dialup internet access when ordered in conjunction with a Managed Services plan. Includes 150 pooled hours per month to be used by Dialup users. Hourly usage fee applies when 150 hour allocation is exceeded. Toll charge applies when a local call is not available.	$136.02	/site/mo
132-52 Business Dialup Internet Access	Business Dialup Internet Access	Dial up - additional hour surcharge for pooled service - Pooled hour service plan usage based surcharge for additional hours over and above the 150 hour allocation.	$1.41	/site/hr
132-52 Business Dialup Internet Access	Business Dialup Internet Access	Dialup - Toll charge - Dialup internet access toll charge when local call is not available. Applies to all Dialup plans.	$0.15	/min
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 128 - Dedicated Point-To-Point T1 service at 128 kbps upstream and 128 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$543.17	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 256 - Dedicated Point-To-Point T1 service at 256 kbps upstream and 256 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$574.91	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 384 - Dedicated Point-To-Point T1 service at 384 kbps upstream and 384 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$606.65	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 512 - Dedicated Point-To-Point T1 service at 512 kbps upstream and 512 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$638.39	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 768 - Dedicated Point-To-Point T1 service at 768 kbps upstream and 768 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$651.99	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 1044 - Dedicated Point-To-Point T1 service at 1024 kbps upstream and 1024 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$661.06	/site/mo
132-52 Managed Services - Broadband Access	Managed Services - Broadband Access	T1 point-to-point 1544 - Dedicated Point-To-Point T1 service at 1544 kbps upstream and 1544 kbps downstream. Requires T1 router. VPN backhaul or dedicated backhaul is required. This service requires a 12 month commitment.	$688.26	/site/mo
132-55 Managed Services - Continuity Access				
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - Setup - Fee associated with setting up dedicated IP Gateway and the bandwidth.	$21,410.58	Each
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - 512 kbps - Fixed monthly fee associated with 512 kbps of dedicated/ guaranteed Outroute capacity. This service requires a 12 month commitment.	$11,153.65	/month
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - 1 Mbps - Fixed monthly fee associated with 1 Mbps of dedicated/ guaranteed Outroute capacity. This service requires a 12 month commitment.	$19,042.82	/month
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - 2 Mbps - Fixed monthly fee associated with 2 Mbps of dedicated/ guaranteed Outroute capacity. This service requires a 12 month commitment.	$36,272.04	/month
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - 3 Mbps - Fixed monthly fee associated with 3 Mbps of dedicated/ guaranteed Outroute capacity. This service requires a 12 month commitment.	$52,594.46	/month
132-55 Managed Services - Continuity Access	Managed Services - Continuity Access	Dedicated/Guaranteed Outroute Service - Addle 1 Mbps - Fixed monthly fee associated with each additional 1 Mbps of dedicated/guaranteed Outroute capacity beyond 3 Mbps. This service requires a 12 month commitment.	$15,415.62	/month
132-8 Router and Switches				
132-8 Router – Hardware	Router - Hardware	VPN Router with 10/100/1000Base-T LAN (Cisco 2921 or Similar) -- Hardware - VPN Router Cisco 2921 or equivalent.Cisco 2921 Security Bundle - Router - Gigabit Ethernet - desktop .Includes installation, hosting at Hughes NOC and management.	$3,544.39	Each
132-8 Router – Hardware	Router - Hardware	VPN Router with 10/100/1000Base-T LAN (Cisco 3825 or Similar) -- Hardware - VPN Router Cisco 3825 or equivalent.3825 Bund. w/AIM-VPN/SSL-3Adv. IP Serv25 SSL lic128F/512D; 512 to 1024MB DRAM factory upgrade for 3800;128 to 512MB Compact Flash factory upgrade for	$10,953.54	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		3800 Series.Includes installation, hosting at Hughes NOC and management.		
132-8 Router – Hardware	Router - Hardware	VPN Router with T3/E3 Network Module (Cisco 3825 or Similar) -- Hardware - VPN Router Cisco 3825 with T3/E3 Network Module or equivalent.3825 Bund. w/AIM-VPN/SSL-3Adv. IP Serv25 SSL lic128F/512D; 512 to 1024MB DRAM factory upgrade for 3800; 128 to 512MB Compact Flash factory upgrade for 3800 Series; Cisco T3/E3 Network Module - Expansion module - HDLC, Frame Relay, PPP - T-3/E-3 .Iincludes installation, hosting at Hughes NOC and management.	$17,195.00	Each
132-8 Router – Maintenance	Router - Maintenance	VPN Router with 10/100/1000Base-T LAN (Cisco 2921 or Similar) -- Maintenance - VPN Router Maintenance -- Next Business Day maintenance. Next Business Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted, beginning the next business day after a call is received) . Requires a 12 month commitment.	$49.25	/router/month
132-8 Router – Maintenance	Router - Maintenance	VPN Router with 10/100/1000Base-T LAN (Cisco 3825 or Similar) -- Maintenance - VPN Router Maintenance-- Same Day Maintenance. Continuous Hughes Support Coverage (24 hours per day, 365 days per year). Requires a 12 month commitment.	$94.71	/router/month
132-8 Router – Maintenance	Router - Maintenance	VPN Router with T3/E3 Network Module (Cisco 3825 or Similar) -- Maintenance-- - VPN Router Maintenance -- Same Day Maintenance. Continuous Hughes Support Coverage (24 hours per day, 365 days per year). Requires a 12 month commitment.	$145.85	/router/month
132-8 Switch–Hardware	Switch - Hardware	Switch--Hardware - Linksys or equivalent 8-port 10/100 unmanaged switch kit, Includes switch installation while already on site for the WAN installation	$70.50	Each
132-8 Switch–Maintenance	Switch - Maintenance	Switch--Maintenance - Switch Next Business Day maintenance. Next Business Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted, beginning the next business day after a call is received) . Requires a 12 month commitment.	$4.61	/switch/month
132-52 IP Tube				
132-52 IP-Tube	222-1544-01 (Engage)	IP-Tube DLT1, dual 10/100BaseT, Single T1 port, Data Compression	$2,380.00	Each
132-52 IP-Tube	MUX Option (MUX) (Engage)	IP-Tube DL DS0 Multiplexing Option	$453.00	Each
132-52 IP-Tube	Fail Over Option (LPT) (Engage)	IP-Tube DL Link Protector Option - Auto T1/E1 Circuit Backup with T1-Over-IP - Enables 2nd T1 interface. See Note 2	$725.00	Each
132-52 IP-Tube	Pass Thru Relay Option(RLY) (Engage)	IP-Tube DL Pass-Thru Relay Option - Power Down Pass-Thru for IP-Tube. See Note 3	$299.00	Each
132-52 IP-Tube	302-1544-03 (Engage)	IP-Tube GT1, dual 10/100BaseT, 3 T1 port, Compression	$4,828.00	Each
132-52 IP-Tube	CH-222-1544-01 (Engage)	IP-Tube DLT1, dual 10/100BaseT, Single T1 port, Data Compression (CHUB-E Slot Card)	$2,154.00	Each
132-52 IP-Tube	095-1000 (Engage)	Rack Mount Kit - for 7" products (Fits both 19" and 23" Racks)	$91.00	Each
132-52 IP-Tube	095-CHUBE (Engage)	CHUB•E CHASSIS, 5RU, 15 Slot, 19" Chassis, One power module required, install two power modules for redundant power	$1,446.00	Each
132-52 IP-Tube	095-BLANK (Engage)	Empty Slot Cover	$36.00	Each
132-52 IP-Tube	095-UNIV-200 (Engage)	Universal Power Module 90-240 VAC, 50/60 Hz, 200 Watts	$449.00	Each
132-52 NOC Infrastructure				
132-52 NOC Infrastructure	NOC Hardware	Private/Dedicated IP Gateway, AES Server, TurboPage Server Setup - Dedicated IP Gateway in the HughesNet NOC for use with private network solutions and requires Vision Access for customer provided Tier 1/Tier 2 support.	$5,531.49	/network
132-52 NOC Infrastructure	NOC Hardware	Private/Dedicated IP Gateway - Recurring monthly fee associated with a Dedicated IP Gateway in the HughesNet NOC for use with private network solutions and requires Vision Access for customer provided Tier 1/Tier 2 support.	$544.08	/network/mo
132-52 NOC Infrastructure	NOC Hardware	AES Gateway - Recurring monthly fee associated with a Dedicated AES Gateway in the HughesNet NOC for use with private network solutions and requires Vision Access for customer provided Tier 1/Tier 2 support.	$544.08	/network/mo
132-52 NOC Infrastructure	NOC Hardware	TurboPage - Enhances performance of web pages and http traffic over satellite. Implemented on a server in HughesNet NOC.	$544.08	/network/mo
132-52 NOC Infrastructure	NOC Hardware	Colocation Fee - This is a colocation fee for housing	$1,088.16	/network/mo

Product Category	Product Type	Product/Service	GSA Price	Unit
		customer provided equipment such as network access routers in HNS NOC.		
132-52 NOC Infrastructure	NOC Hardware	Private Network Setup - This fee provides for the engineering support required for the initial setup of a private network whereby Customer provides its own dedicated backhaul such as a T1.5 and the associated router.	$9,068.01	/network
132-52 NOC Infrastructure	NOC-DataCenter Hardware	Private/Dedicated, TurboPage Server Equipment and Installation - Dedicated Turbo Page Server in the HughesNet NOC or customer data center for use with private network solutions.	$7,557.00	/network
132-52 NOC Infrastructure	NOC-DataCenter Hardware	Private/Dedicated, TurboPage Server Maintenance - Dedicated Turbo Page Server maintenance in the HughesNet NOC or customer data center for use with private network solutions.	$72.55	/network/mo
132-52 NOC Infrastructure	NOC-DataCenter Hardware	Access Gateway - Dedicated Access Gateway Server in the HughesNet NOC or customer data center for use with private network solutions.	$7,557.00	/network
132-52 NOC Infrastructure	NOC-DataCenter Hardware	Access Gateway Maintenance - Dedicated Access Gateway Server maintenance in the HughesNet NOC or customer data center for use with private network solutions.	$72.55	/network/mo
132-52 Dial Backup				
132-52 VADB Access	VADB Access	Remote Access Monthly Fee - Allows HNS to set up a remote site for VADB Access. This service requires a CPE equipped with a dial-up modem, or a customer provided external modem. Requires a 12 month commitment.	$10.88	/site/mo
132-52 VADB Access	VADB Access	Remote Access Setup Fee - Allows HNS to set up a remote site for VADB Access. This service requires a CPE equipped with a dial-up modem, or a customer provided external modem.	$45.34	/site
132-52 Package Delivery				
132-52 PD Client S/W	PD Client S/W	PD Client S/W - PD client software to support PD service	$45.34	/site
132-52 PD Server	PD Server	PD Server and S/W - PD Server and S/W to support PD Service	$22,670.03	/network
132-52 PD Operations	PD Operations	PD Operations - Operations Fee for PD Server and S/W support	$272.04	/network/mo
132-52 PD Service	PD Service	PD Delivery Fee - Delivery charge per Mbyte per transponder of content regardless of the number of sites	$2.04	/MB/transponder
132-52 PD Service	PD Service	PD Service Charge - Monthly account fee	$90.68	network/mo
132-52 IP-Sec VPN Accelerator				
132-52 HVA Server	HVA Server	50 Tunnels - Non Redundant - HVA Server and S/W to support 50 concurrent IP-Sec Tunnels. Remote Client S/W included. This service requires a HughesNet terminal (either HN7000 or HN7700) with access plan and a Private IP Gateway implementation.	$4,079.70	/network
132-52 HVA Server	HVA Server	200 Tunnels - Non Redundant - HVA Server and S/W to support 200 concurrent IP-Sec Tunnels. Remote Client S/W included. This service requires a HughesNet terminal (either HN7000 or HN7700) with access plan and a Private IP Gateway implementation.	$5,077.18	/network
132-52 HVA Server	HVA Server	800 Tunnels - Redundant - HVA Server and S/W to support 800 concurrent IP-Sec Tunnels. Remote Client S/W included. This service requires a HughesNet terminal (either HN7000 or HN7700) with access plan and a Private IP Gateway implementation.	$8,160.30	/network
132-52 HVA Server	HVA Server	1600 Tunnels - Redundant - HVA Server and S/W to support 1600 concurrent IP-Sec Tunnels. Remote Client S/W included. This service requires a HughesNet terminal (either HN7000 or HN7700) with access plan and a Private IP Gateway implementation.	$12,240.91	/network
132-52 HVA Redundancy	HVA Redundancy	Redundant HVA Server - Required to make 50 and 200 Tunnel Options redundant. This service requires a Private IP Gateway implementation.	$4,079.70	/network
132-52 HVA License Upgrade	HVA License Upgrade	100 Tunnel License Upgrade - Increase allotted License for any service plan by 100. This service requires a Private IP Gateway implementation.	$905.89	/network
132-52 HVA Startup	HVA Startup	HVA Startup - HNS professional startup of HVA server at customer location, required for HVA Service.	$1,088.16	/network
132-52 HVA Access	HVA Access	HVA Monthly Access Fee - Required software license and support for the HVA application. Requires a 12 month commitment.	$9.07	/site/mo
132-52 VPN Backhaul				
132-52 VPN Backhaul Setup	VPN Backhaul Setup	VPN Port Access at NOC - Backhaul option in lieu of dedicated backhaul (e.g., pt-pt T1). One VPN port. This service requires a Private IP Gateway implementation.	$8,750.63	Each
132-52 VPN Backhaul Setup	VPN Backhaul Setup	VPN Router Setup at Customer Location - VPN Router	$4,529.47	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		installed at the customer's data center in support of a VPN backhaul. Optionally, customers can provide their own router.		
132-52 VPN Backhaul Support	VPN Backhaul Support	VPN Management - Basic - Backhaul option in lieu of dedicated backhaul (e.g., pt-pt T1). One VPN tunnel via the HughesNet NOC Internet access. This service requires a Private IP Gateway implementation. Requires a 12 month commitment.	$453.40	/mo
132-52 VPN Backhaul Support	VPN Backhaul Support	VPN Management - Enhanced - Backhaul option in lieu of dedicated backhaul (e.g., pt-pt T1). One VPN tunnel via the HughesNet NOC Internet Access plus access control list management for up to 5 access policies/VPN Port. This service requires a Private IP Gateway implementation. Requires a 12 month commitment.	$861.46	/mo
132-52 VPN Backhaul BW	Internet Access	Internet Access (per mbps) - Access to the Internet from Hughes NOC. Pricing is based on per Mbps.	$104.18	Per Mbps
132-52 VPN Backhaul Capacity	VPN Backhaul Capacity	VPN capacity - 1 Mbps - Backhaul option in lieu of dedicated backhaul (e.g., pt-pt T1). This is the banHNidth capacity of the VPN tunnel. Bandwidth speeds specify port limitations imposed at the HughesNet NOC's Internet Access. Actual data throughput will be dependent on customer's Internet Access and Internet availability. This service requires a 12 month commitment.	$380.86	/mo
132-52 VPN Backhaul Capacity	VPN Backhaul Capacity	VPN capacity - 256 kbps - Backhaul option in lieu of dedicated backhaul (e.g., pt-pt T1). This is the banHNidth capacity of the VPN tunnel. BanHNidth speeds specify port limitations imposed at the HughesNet NOC's Internet Access. Actual data throughput will be dependent on customer's Internet Access and Internet availability. This service requires a 12 month commitment.	$140.55	/site/mo
132-52 Internet Capacity	Internet Capacity	Internet capacity - 256 kbps - Internet bandwidth capacity for sites with Managed Services service plans that also want internet access at the HughesNet NOC. 256 kbps capacity. This is in addition to any backhaul capacity. This service requires a 12 month commitment.	$140.55	/site/mo
132-52 Network Management				
132-52 Network Management Access	Network Management Access	Network Management Access - Network Management Access is required for private network service plans. This provides access to the HughesNet Network Management Portal System so that the user can provide their own Tier 1/Tier 2 support. Access is implemented via VPN connection to the HNS NOC.	$272.04	/mo
132-52 Network Management Access Hardware	Network Management Access Hardware	Netscreen 5XT - Hardware for the VPN access to HNS NOC, required for Vision Access.	$1,133.50	/network
132-52 Network Management Access Operations Support	Network Management Access Operations Support	Vision Operations Support - Operations support for the Netscreen 5XT hardware applicable with Vision Access	$25.39	/mo
132-12 Customer Support				
132-12 Customer Support	Customer Support	Tier 1/2 help desk customer support - Tier 1/2 customer support for managed services. Requires a 12 month commitment.	$17.09	/site/mo
132-12 Help Desk Support	Help Desk Support	Tier 1/Tier 2 - Tier 1/ Tier 2 help desk support	$18.15	/site/mo
132-12 Customer Support	Help Desk Support	Standard Tier 1 Support - VSAT - Standard Tier 1 support - 24x7 support via phone or e-ticket.	$5.74	/site/month
132-12 Customer Support	Help Desk Support	Premium Tier 1 Support - VSAT - Premium Tier 1 support - Includes Standard Tier 1 support plus first level event management of automated alerts	$13.40	/site/month
132-12 Customer Support	Help Desk Support	Platinum Tier 1 Support - VSAT - Platinum Tier 1 support - Includes Premium Tier 1 support plus Hughes-initiated call to end user	$16.27	/site/month
132-12 Customer Support	Help Desk Support	Standard Tier 1 Support -- Non-VSAT - Standard Tier 1 support - 24x7 support via phone or e-ticket.	$9.57	/site/month
132-12 Customer Support	Help Desk Support	Premium Tier 1 Support -- Non- VSAT - Premium Tier 1 support - Includes Standard Tier 1 support plus first level event management of automated alerts	$22.97	/site/month
132-12 Customer Support	Help Desk Support	Platinum Tier 1 Support -- Non-VSAT - Platinum Tier 1 support - Includes Premium Tier 1 support plus Hughes-initiated call to end user	$25.84	/site/month
132-12 Customer Support	Help Desk Support	Premium Tier 3 Support - VSAT - Premium Tier 3 support - Includes Standard Tier 3 support plus first level event management of automated alerts	$7.66	/site/month
132-12 Customer Support	Help Desk Support	Premium Tier 3 Support - Non-VSAT - Premium Tier 3 support - Includes Standard Tier 3 support plus first level event management of automated alerts	$12.44	/site/month
132-12 Operational Support	Operations Support: Program Management and Network Engineering	Operations Support: Program Management & Network Engineering - Program Management. Network Engineering	$1,914.00	Per Month
132-12 HVA Maintenance				

Product Category	Product Type	Product/Service	GSA Price	Unit
132-12 HVA Maintenance	HVA Maintenance	50 Tunnel Maintenance - HVA Maintenance Fee for HVA Server and associated Server and remote S/W. This service requires a HVA Server. Requires a 12 month commitment.	$85.64	/network/mo
132-12 HVA Maintenance	HVA Maintenance	200 Tunnel Maintenance - HVA Maintenance Fee for HVA Server and associated Server and remote S/W. This service requires a HVA Server. Requires a 12 month commitment.	$107.05	/network/mo
132-12 HVA Maintenance	HVA Maintenance	800 Tunnel Maintenance - HVA Maintenance Fee for HVA Server and associated Server and remote S/W. This service requires a HVA Server. Requires a 12 month commitment.	$157.01	/network/mo
132-12 HVA Maintenance	HVA Maintenance	1600 Tunnel Maintenance - HVA Maintenance Fee for HVA Server and associated Server and remote S/W. This service requires a HVA Server. Requires a 12 month commitment.	$228.38	/network/mo
132-12 Remote Field Maintenance				
132-12 Remote Maintenance	Remote Maintenance	Next Business Day - VSAT - Next Business Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted, beginning the next business day after a call is received). Available for satellite service plans. Requires a 12 month commitment.	$20.25	/mo
132-12 Remote Maintenance	Remote Maintenance	Next Day - VSAT - Next Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, 365 days per year, beginning the next day after a call is received). Available for "Internet Access" plans. Available for satellite service plans. Requires a 12 month commitment.	$23.28	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 9x5 - VSAT - Normal Service Coverage (8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted). Available for satellite service plans. Requires a 12 month commitment.	$23.83	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 12x6- VSAT - Extended Service Coverage (8:00 a.m. to 8:00 p.m., local time, Monday through Saturday). Available for satellite service plans. Requires a 12 month commitment.	$24.96	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 12x7- VSAT - Extended Plus Coverage (8:00 a.m. to 8:00 p.m., 365 days per year). Available for satellite service plans. Requires a 12 month commitment.	$26.05	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 18x7 - VSAT - 18 x 7 Service Coverage (6:00 a.m. to 12:00 midnight, 365 days per year). Available for satellite service plans. Requires a 12 month commitment.	$27.18	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 24x7 - VSAT - Continuous Service Coverage (24 hours per day, 365 days per year). Available for satellite service plans. Requires a 12 month commitment.	$28.54	/mo
132-12 Remote Maintenance	Remote Maintenance	Next Business Day - DSL/T1 - Next Business Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted, beginning the next business day after a call is received). Available for DSL service plans. Requires a 12 month commitment.	$13.14	/mo
132-12 Remote Maintenance	Remote Maintenance	Next Day - DSL/T1 - Next Day Coverage (Service Coverage Hours are 8:00 a.m. to 5:00 p.m., local time, 365 days per year, beginning the next day after a call is received). Available for DSL service plans. Requires a 12 month commitment.	$15.97	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 9x5 - DSL/T1 - Normal Service Coverage (8:00 a.m. to 5:00 p.m., local time, Monday through Friday, holidays excepted). Available for DSL service plans. Requires a 12 month commitment.	$16.49	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 12x6 - DSL/T1 - Extended Service Coverage (8:00 a.m. to 8:00 p.m., local time, Monday through Saturday). Available for DSL service plans. Requires a 12 month commitment.	$17.43	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 12x7 - DSL/T1 - Extended Plus Coverage (8:00 a.m. to 8:00 p.m., 365 days per year). Available for DSL service plans. Requires a 12 month commitment.	$18.37	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 18x7 - DSL/T1 - 18 x 7 Service Coverage (6:00 a.m. to 12:00 midnight, 365 days per year). Available for DSL service plans. Requires a 12 month commitment.	$19.31	/mo
132-12 Remote Maintenance	Remote Maintenance	Same Day 24x7 - DSL/T1 - Continuous Service Coverage (24 hours per day, 365 days per year). Available for DSL service plans. Requires a 12 month commitment.	$20.25	/mo
132-12 Remote Maintenance	Remote Maintenance	Remote field service, Hourly charge - Hourly labor rate for field service technician for work during standard business hours	$124.18	/hr
132-12 Remote Maintenance	Remote Maintenance	Remote field service, Hourly charge - Hourly labor rate for field service technician for work not during standard business hours	$149.87	/hr
132-12 Remote Maintenance	Remote Maintenance	Remote field service, Trip charge - Trip charge for field	$158.44	/trip

Product Category	Product Type	Product/Service	GSA Price	Unit
		service technician to visit customer sire. Only applies if customer does not have a maintenance plan.		
132-12 Remote Maintenance	Remote Maintenance	Same Day VPN Router Maintenance - Maintenance fee for the VPN Router at customer data center in support of the VPN backhaul. Requires a 12 month commitment.	$64.23	/site/mo
132-12 Remote Maintenance	Remote Maintenance	Two Business Day Maintenance for Vehicle mounted KU HughesNet VSAT - Two Business Day Maintenance for Vehicle mounted HughesNet VSAT	$54.81	/site/mo
132-12 Remote Maintenance	Remote Maintenance	Two Business Day Maintenance for Fly-away KU HughesNet VSAT - Two Business Day Maintenance for Fly-away HughesNet VSAT	$54.81	/site/mo
132-12 Installation Service and Labor				
132-12 Install Services	Install Services	Site survey - Site survey to determine the time and materials to install HughesNet equipment. Quotation provided from results of survey.	$299.75	Each
132-12 Install Services	Install Services	Standard Fixed VSAT Installation : 98/120 - Standard Fixed HughesNet equipment Installation for sites requiring .98 and 1.2 meter antenna systems in the lower 48 states.	$770.78	/site
132-12 Install Services	Install Services	Standard Fixed VSAT Installation : 180 - Standard Fixed HughesNet equipment Installation for sites requiring 1.8 meter antenna systems in the lower 48 states.	$1,314.86	/site
132-12 Install Services	Install Services	Standard Fixed VSAT De-installation : 98/120 - Standard Fixed HughesNet equipment De-installation for sites requiring .98 and 1.2 meter antenna systems in the lower 48 states.	$408.06	/site
132-12 Install Services	Install Services	Standard Fixed VSAT De-installation: 180 - Standard Fixed HughesNet equipment De-installation for sites requiring 1.8 meter antenna systems in the lower 48 states.	$680.10	/site
132-12 Install Services	Install Services	Re-install .98m/1.2m antenna - Standard Fixed VSAT Re-installation .98m/1.2m	$725.02	Each
132-12 Install Services	Install Services	Re-install 1.8m antenna - Standard Fixed VSAT Re-installation 1.8m	$1,224.16	Each
132-12 Install Services	Install Services	Standard Fixed VSAT Site Relocation/Move - Local : 98/120 - Standard Fixed HughesNet equipment site move for .98 and 1.2 meter antenna systems and within same city or up to 100 miles between the existing and new site in the lower 48 states.	$1,133.50	Each
132-12 Install Services	Install Services	Standard Fixed VSAT Site Relocation/Move - Local : 180 - Standard Fixed HughesNet equipment site move for 1.8 meter antenna systems and within same city or up to 100 miles between the existing and new site in the lower 48 states.	$1,904.28	Each
132-12 Install Services	Install Services	Standard Fixed VSAT Site Relocation/Move - Non-local : 98/120 - Standard Fixed HughesNet equipment site move for .98 and 1.2 meter antenna systems where by the existing and new HughesNet equipment sites are more than 100 miles apart in the lower 48 states.	$1,360.20	Each
132-12 Install Services	Install Services	Standard Fixed VSAT Site Relocation/Move - Non-local : 180 - Standard Fixed HughesNet equipment site move for 1.8 meter antenna systems where by the existing and new HughesNet equipment sites are more than 100 miles apart in the lower 48 states.	$2,267.00	Each
132-12 Install Services	Install Services	Non-standard De-installation - Fixed HughesNet equipment Deinstallation for sites with antenna systems larger than 1.8 meter and/or outside lower 48 states.		
132-12 Install Services	Install Services	Non-standard Fixed VSAT Site Relocation/Move - Local - Fixed HughesNet equipment Site Local relocation/move for systems with antenna systems larger than 1.8 meter and/or outside lower 48 states.		
132-12 Install Services	Install Services	Non-standard Fixed VSAT Site Relocation/Move - Non-local - Fixed HughesNet equipment Site Non-local relocation/move for systems with antenna systems larger than 1.8 meter and/or outside lower 48 states.		
132-12 Install Services	Install Services	Standard DSL De-installation - Standard HughesNet DSL equipment De-installation in the lower 48 states.	$261.21	Each
132-12 Install Services	Install Services	Standard DSL Relocation/Move - Local - Standard HughesNet DSL equipment site relocation/move within same city or up to 100 miles between the existing and new site in the lower 48 states.	$560.96	Each
132-12 Install Services	Install Services	Standard DSL Relocation/Move - Non Local - Standard HughesNet DSL equipment site relocation/move where by the existing and new HughesNet equipment sites are more than 100 miles apart in the lower 48 states.	$672.29	Each
132-12 Install Services	Install Services	Incremental charge for customer requested/required pole	$325.44	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		mount up to 10 feet for VSAT: 0.98m or 1.2 m - Incremental charge for customer requested/required pole mount with height up to 10 feet. Cable run from antenna to indoor unit up to 150 feet with no trenching or excavation.		
132-12 Install Services	Install Services	Incremental charge for customer requested/required pole mount with height 11-15 feet for VSAT: 0.98 m or 1.2 m - Incremental charge for customer requested/required pole mount with height 11 – 15 feet. Cable run from antenna to indoor unit up to 150 feet with no trenching or excavation.	$479.60	Each
132-12 Install Services	Install Services	Incremental charge for customer requested/required pole mount for VSAT: 1.8 m - Incremental charge for customer requested/required pole mount with height greater than 15 feet, or trenching required for cable run from antenna to indoor unit greater than 150 feet, or excavation required.	ICB	Each
132-12 Install Services	Install Services	Re-pointing/Re-cross-polarization of VSAT antenna - Charge to repoint/repolorize the antenna at the same customer location	$299.75	Each
132-12 Install Services	Install Services	Move indoor electronics - VSAT - same point of entry and cable will be used	$299.75	Each
132-12 Install Services	Install Services	Move indoor electronics - VSAT - new point of entry and cable is required	$342.57	Each
132-12 Install Services	Install Services	Upgrade indoor electronics or outdoor electronics - VSAT - Does not include hardware	$299.75	Each
132-12 Install Services	Install Services	Upgrade indoor electronics and outdoor electronics - VSAT - Does not include hardware	$342.57	Each
132-12 Install Services	Install Services	Aborted or Cancelled Installation: VSAT and DSL - This charge only applies in cases where the installation has been cancelled by Customer within seven (7) days of the scheduled installation.	$256.93	Each
132-12 Install Services	Install Services	Expedited Installation Charge: DSL and VSAT - Incremental charge for installations requested with less than 15 business days of notice.	$299.75	Each
132-12 Install Services	Install Services	Dedicated twisted pair line install extra cost > 100' - Additional Cat 5 data cable installed > 100'	$1.07	/foot
132-12 Install Services	Install Services	Miscellaneous support services - Including but not limited to obtain permits and approvals, provision of specially required additional or special documentation, attendance at meeting before local planning or zoning boards, etc.	ICB	
132-12 Install Services	Install Services	Early termination charge if service is disconnected less than 12 month of service: DSL and VSAT - Early termination Fee if the service is disconnected prior to 12 months.	$256.93	Each
132-12 Install Services	Install Services	Service Plan Change (Upgrade/Downgrade) Fee - Charge to change from one service plan to another. Requires technician visit to customer's location to de-commission the old service plan and re-commission the new service plan.	$299.75	Each
132-52 Training	Installation Training	HughesNet Installer Certification - HN System Remote Installation & Operation (at Hughes Facility)	$1,339.98	Per Person
132-52 Training	Installation Training	HughesNet Installer Certification - HN System Remote Installation & Operation (at Customer Facility)	$8,039.85	Per Person
132-100 Labor				
132-100 Labor	Labor	Hughes Labor Rate. This rate will be for specific installation, program support , program management or services required by government agency.	$165.00	/hour
132-8 Emergency Access Products				
132-8 Transportable VSAT	HN9000S-Emergency	HN9000S, .98 m antenna, 2 watt RFU, Emergency Fixed Location Installation - Customer equipment for use with a HughesNet (BI) Access Plan. Includes Emergency Installation	$2,549.00	Each
132-8 Transportable VSAT	HN7000S-Mobile	HN7000S, .98 m fixed-mobile antenna, 2 watt RFU, standard vehicle installation - Total HughesNet Mobile System package including vehicle-based installation for use with a HughesNet broadband IP internet access (IA) services.	$15,067.33	Each
132-8 Transportable VSAT	HN7000S-Mobile	HN7000S, 1.2 m, 2 watt RFU, fixed-mobile antenna, standard vehicle installation - Total HughesNet Mobile System package including vehicle-based installation for use with a HughesNet broadband IP internet access (IA) services.	$16,981.69	Each
132-8 Transportable VSAT	HN7000S-Mobile	HN7000S, .98 m antenna, 2 watt RFU, fixed-mobile antenna in a single fly-away kit configuration - Total HughesNet Mobile System package including vehicle-based installation for use with a HN7000S HughesNet broadband IP Internet Access (IA) services.	$20,810.40	Each
132-8 Transportable VSAT	HN7000S-Mobile	HN7000S, 1.2 m antenna, 2 watt RFU, fixed-mobile	$24,782.70	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		antenna in a single fly-away kit configuration - Total HughesNet Mobile System package including vehicle-based installation for use with a HN7000S HughesNet broadband IP internet access (IA) services.		
132-8 Transportable VSAT	HN9500 Redeployable	HN9500 Redeployable, .98m antenna, 2 watt RFU - HN9500, .98m antenna, 2 watt, Hardware Only, shipped. Does not include installation.	$1,495.00	Each
132-8 Transportable VSAT	HN9500 Redeployable	HN9500 Redeployable, 1.2m antenna, 2 watt RFU - HN9500, 1.2m antenna, 2 watt, Hardware Only, shipped. Does not include installation.	$1,820.00	Each
132-52 Redeployable	Pointing Tool	Ka Pointing Tool Kit with case	$395.34	Each
132-8 Transportable VSAT Products - Vehicle				
132-8 Transportable VSAT	HN9460-Transportable -Vehicle Mounted	HN9460, 0.98m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HN9460 transportable package including 0.98m auto-deployable antenna system with controller and 30ft cable, 2W BUC, standard shipping, installation, travel expenses and program management for use with HughesNet broadband IP Internet Access (IA) or Enterprise plans. Two year warranty.	$25,068.51	Each
132-8 Transportable VSAT	HN9460-Transportable -Vehicle Mounted	HN9460, 1.2m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HN9460 transportable package including 1.2m auto-deployable antenna system with controller and 30ft cable, 2W BUC, standard shipping, installation, travel expenses and program management for use with HughesNet broadband IP Internet Access (IA) or Enterprise plans. Two year warranty.	$30,993.45	Each
132-8 Transportable VSAT	HX200 - Transportable - Vehicle Mounted	HX200, 0.98m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HX200 transportable package including 0.98m auto-deployable antenna system with controller and 30ft cable, 6W BUC, standard shipping, installation, travel expenses and program management for use with Hughes HX service plans. Two year warranty.	$26,963.73	Each
132-8 Transportable VSAT	HX200 - Transportable - Vehicle Mounted	HX200, 1.2m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HX200 transportable package including 1.2m auto-deployable antenna system with controller and 30ft cable, 6W BUC, standard shipping, installation, travel expenses and program management for use with Hughes HX service plans. Two year warranty.	$32,888.66	Each
132-8 Transportable VSAT	HX90 - Transportable - Vehicle Mounted	HX90, 0.98m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HX90 transportable package including 0.98m auto-deployable antenna system with controller and 30ft cable, 2W BUC, standard shipping, installation, travel expenses and program management for use with Hughes HX service plans. Two year warranty.	$25,068.51	Each
132-8 Transportable VSAT	HX90 - Transportable - Vehicle Mounted	HX90, 1.2m vehicle mounted auto-deployable antenna system with controller and 30ft cable, includes standard shipping, installation, travel expenses and program management - HX90 transportable package including 1.2m auto-deployable antenna system with controller and 30ft cable, 2W BUC, standard shipping, installation, travel expenses and program management for use with Hughes HX service plans. Two year warranty.	$30,993.45	Each
132-8 Transportable VSAT Products - Flyaway				
132-8 Transportable VSAT	HN9460-Transportable -Flyaway	HN9460, 1.2m tripod mount flyaway auto-deployable antenna system with controller and 30ft cable, includes standard shipping, program management and professional setup - HN9460 flyaway package including 1.2m auto-deployable antenna system with controller and 30ft cable, tripod mount, four cases, 2W BUC, program management, standard shipping and professional setup for use with HughesNet broadband IP Internet Access (IA) or Enterprise plans. Two year warranty.	$51,247.36	Each
132-8 Transportable VSAT	HX90 - Transportable - Flyaway	HX90, 1.2m tripod mount flyaway auto-deployable antenna system with controller and 30ft cable, includes standard shipping, program management and professional setup - HX90 flyaway package including 1.2m auto-deployable antenna system with controller and 30ft cable, tripod mount,	$51,247.36	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		four cases, 2W BUC, program management, standard shipping, professional setup for use with Hughes HX service plans. Two year warranty.		
132-8 Transportable VSAT	HX200 - Transportable - Flyaway	HX200, 1.2m tripod mount flyaway auto-deployable antenna system with controller and 30ft cable, includes standard shipping, program management and professional setup - HX200 flyaway package including 1.2m auto-deployable antenna system with controller and 30ft cable, tripod mount, four cases, 6W BUC, program management, standard shipping and professional setup for use with Hughes HX service plans. Two year warranty.	$53,142.57	Each
132-8 Transportable VSAT Products - Accessories				
132-8 Transportable VSAT	Transportable Option	Handheld controller - iNetVu 3000C-12 handheld install/demo controller. Requires external 12V battery	$574.31	Each
132-8 Transportable VSAT	Transportable Option	50ft controller cable option - Controller 50Ft Cable Set (Motor, Sensor and 75 ohm Coax)	$1,005.04	Each
132-8 Transportable VSAT	Transportable Option	100ft controller cable option - Controller 100Ft Cable Set (Motor, Sensor and 75 ohm Coax)	$1,292.19	Each
132-8 Transportable VSAT	Transportable Option	Transport cases for 0.98m - Two transport cases for a 0.98m vehicle mount system: One case for the antenna system and one case for the controller and modem	$6,604.53	Each
132-8 Transportable VSAT	Transportable Option	Transport cases for 1.2m - Three transport cases for a 1.2m vehicle mount system: One case for the antenna base, once case for the reflector and one case for the controller and modem	$7,944.58	Each
132-52 Transportable VSAT Services - Support				
132-52 Transportable VSAT	Support	Out of warranty support - Business hours (Monday to Friday 8:am to 5:00pm) helpdesk support for Transportable units not under warranty . Non-business hours rate is higher.	$177.08	Hourly
132-8 Ka Transportable and Fly-way kit				
132-8 Transportable VSAT	Ka - Transportable	HN9500-098 2W & 1010KVH Antenna System --Vehicle Mounted - HN9500 with .98m auto-deploy AVL antenna system, 2w radio, standard Vehicle installation AvL Ka-band composite antenna reflector • Integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Vehicle mount interface frame with bulkhead connector panel• Laptop--Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions	$55,010.76	Each
132-8 Transportable VSAT	Transportable	HN9500-120 2W & 1210KVH Antenna System --Vehicle Mounted - HN9500 with 1.2m auto-deploy AVL antenna system, 2w radio, standard Vehicle installation• AvL Ka-band composite antenna reflector• Modification and integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Vehicle mount interface frame with bulkhead connector panel• Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions	$57,307.86	Each
132-8 Transportable VSAT	Ka - Transportable	HN9500-120 4W & 1210KVH Antenna System --Vehicle Mounted - HN9500 with 1.2m auto-deploy AVL antenna system, 4w radio, standard Vehicle installation• AvL Ka-band composite antenna reflector• Integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Vehicle mount interface frame with bulkhead connector panel• Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions	$57,949.13	Each
132-8 Transportable VSAT	Ka - Transportable	HN9500-098 2W & 1010KVH Antenna System--flyaway	$56,307.66	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
		kit - HN9500 with 0.98m auto-deploy AVL antenna system, 2w radio, rugged flyaway kit• AvL composite antenna reflector• Integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Transport base/case w/removable cover, integral frame, levelers & side panel stow brackets• Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions		
132-8 Transportable VSAT	Ka - Transportable	HN9500-120 2W & 1210KFH Antenna System---flyaway kit - HN9500 with 1.2m auto-deploy AVL antenna system, 2w radio, rugged flyaway kit• AvL composite antenna reflector• Integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Transport base/case w/removable cover, integral frame, levelers & side panel stow brackets• Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions	$64,730.36	Each
132-8 Transportable VSAT	Ka - Transportable	HN9500-120 4W & 1210KFH Antenna System---flyaway kit - HN9500 with 1.2m auto-deploy AVL antenna system, 4w radio, rugged flyaway kit• AvL composite antenna reflector• Integration of Hughes FSS Rx/Tx feed subassembly• Integrated AvL auto-acquisition antenna control system interconnect cable (25-ft) and remote 1RU controller chassis (includes power supply)• Transport base/case w/removable cover, integral frame, levelers & side panel stow brackets• Windows-based (10-in screen min.) laptop with Hughes-specific "nControl" GUI, software; includes: USB/serial adapter, serial cable (3'), cat5 cable (3'), carrying case• Antenna-to-modem IF cables: RG59 coaxial cable with Type F male (qty 2, 25' ea)• Factory checkout• Operation instructions	$65,319.00	Each
132-12 Transportable VSAT Support				
132-12 Transportable VSAT	Ka - Transportable	HN9500 Transportable support, 12-month package - 1. 12-Months of "24/7" Tier 1 Telephone & E-mail Support for entire HN9500/AvL DAS2. Spares depot maintains sufficient levels of DAS electrical & mechanical spares for 24-hour shipment in CONUSMust be purchased within 30 days of system purchase	$462.29	Monthly
132-12 Transportable VSAT	Ka - Transportable	HN9500 Transportable support, 24-month package - 1. 24-Months of "24/7" Tier 1 Telephone & E-mail Support for entire HN9500/AvL DAS2. Spares depot maintains sufficient levels of DAS electrical & mechanical spares for 24-hour shipment in CONUSMust be purchased within 30 days of system purchase	$360.84	Monthly
132-54 Emergency Internet Access				
132-52 Internet Access	Internet Access	Emergency Business Internet - Business Internet service. Requires HN9000S and a minimum of a .98 m antenna. For use with a HughesNet broadband IP service plan. HNS provided Tier 1/Tier 2 and Tier 3 support included. Service is subject to performance as listed in Section 2.3. This service plan requires a minimum of 2 month commitment.	$201.50	/site/mo
132-54 Transponded Capacity - CONUS Ku				
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 1-12	$6,217.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 13-24	$5,924.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 25-36	$5,763.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 37-54	$5,480.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 55-72	$5,375.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 73-144	$5,264.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 year, CONUS Ku NP 145-288	$5,158.00	Per MHz per month
132-54 Transponded Capacity - 50 State Ku				
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 1-12	$6,908.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 13-24	$6,594.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 25-36	$6,370.00	Per MHz per month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 37-54	$6,160.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 55-72	$6,037.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 73-144	$5,916.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 year, 50-state Ku NP 145-288	$5,797.00	Per MHz per month
132-54 Transponded Capacity - South America Ku				
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 1-12	$5,211.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 13-24	$4,878.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 25-36	$4,656.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 37-54	$4,434.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 55-72	$4,345.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 73-144	$4,258.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America Ku	Transponded Capacity, 1 year, South America Ku NP 145-288	$4,173.00	Per MHz per month
132-54 Transponded Capacity - Asia Pacific Ku				
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 1-12	$5,644.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 13-24	$5,276.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 25-36	$5,023.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 37-54	$4,785.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 55-72	$4,689.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 73-144	$4,595.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific Ku	Transponded Capacity, 1 year, Asia Pacific Ku NP 145-288	$4,502.00	Per MHz per month
132-54 Transponded Capacity - Africa Ku				
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 1-12	$5,856.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 13-24	$5,601.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 25-36	$5,347.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 37-54	$5,091.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 55-72	$4,989.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 73-144	$4,889.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa Ku	Transponded Capacity, 1 year, Africa Ku NP 145-288	$4,791.00	Per MHz per month
132-54 Transponded Capacity - European Ku				
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 1-12	$6,498.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 13-24	$6,067.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 25-36	$5,792.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 37-54	$5,362.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 55-72	$5,256.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 73-144	$5,149.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European Ku	Transponded Capacity, 1 year, European Ku NP 145-288	$5,047.00	Per MHz per month
132-54 Transponded Capacity - European Ku				
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 1-12	$7,011.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 13-24	$6,619.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 25-36	$6,332.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 37-54	$6,031.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 55-72	$5,910.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 73-144	$5,793.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean Ku	Transponded Capacity, 1 year, Indian Ocean Ku NP 145-288	$5,677.00	Per MHz per month
132-54 Transponded Capacity - CONUS C Band				
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 1-12	$5,494.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 13-24	$5,256.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 25-36	$5,016.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 37-54	$4,778.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 55-72	$4,682.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 73-144	$4,588.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 year, CONUS C NP 145-288	$4,497.00	Per MHz per month
132-54 Transponded Capacity - 50 State C Band				
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 1-12	$5,494.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 13-24	$5,256.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 25-36	$5,016.00	Per MHz per month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 37-54	$4,778.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 55-72	$4,682.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 73-144	$4,588.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 year, 50-state C NP 145-288	$4,497.00	Per MHz per month
132-54 Transponded Capacity - South America C Band				
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 1-12	$4,632.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 13-24	$4,433.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 25-36	$4,234.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 37-54	$4,032.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 55-72	$3,951.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 73-144	$3,873.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - South America C-Band	Transponded Capacity, 1 year, South America C NP 145-288	$3,795.00	Per MHz per month
132-54 Transponded Capacity - Asia Pacific C Band				
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 1-12	$4,705.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 13-24	$4,456.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 25-36	$4,244.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 37-54	$4,042.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 55-72	$3,962.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 73-144	$3,882.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Asia Pacific C-Band	Transponded Capacity, 1 year, Asia Pacific C NP 145-288	$3,805.00	Per MHz per month
132-54 Transponded Capacity - Africa C Band				
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 1-12	$6,195.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 13-24	$5,651.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 25-36	$5,174.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 37-54	$4,903.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 55-72	$4,806.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 73-144	$4,709.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Africa C-Band	Transponded Capacity, 1 year, Africa C NP 145-288	$4,615.00	Per MHz per month
132-54 Transponded Capacity - European C Band				
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 1-12	$4,721.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 13-24	$4,344.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 25-36	$3,966.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 37-54	$3,777.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 55-72	$3,701.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 73-144	$3,628.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - European C-Band	Transponded Capacity, 1 year, European C NP 145-288	$3,556.00	Per MHz per month
132-54 Transponded Capacity - Indian Ocean C Band				
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 1-12	$8,268.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 13-24	$7,937.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 25-36	$7,716.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 37-54	$7,349.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 55-72	$7,201.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 73-144	$7,058.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - Indian Ocean C-Band	Transponded Capacity, 1 year, Indian Ocean C NP 145-288	$6,916.00	Per MHz per month
132-54 Transponded Capacity - CONUS Ku (Month to Month)				
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 1-12	$8,780.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 13-24	$8,361.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 25-36	$8,132.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 37-54	$7,742.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 55-72	$7,587.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 73-144	$7,436.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS Ku	Transponded Capacity, 1 month, CONUS Ku NP 145-288	$7,288.00	Per MHz per month
132-54 Transponded Capacity - 50 State Ku (Month to Month)				
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 1-12	$9,785.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 13-24	$9,342.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 25-36	$9,023.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 37-54	$8,726.00	Per MHz per month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 55-72	$8,552.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 73-144	$8,381.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State Ku	Transponded Capacity, 1 month, 50-state Ku NP 145-288	$8,213.00	Per MHz per month
132-54 Transponded Capacity - CONUS C Band (Month to Month)				
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 1-12	$7,784.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 13-24	$7,445.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 25-36	$7,107.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 37-54	$6,768.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 55-72	$6,632.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 73-144	$6,500.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - CONUS C-Band	Transponded Capacity, 1 month, CONUS C NP 145-288	$6,370.00	Per MHz per month
132-54 Transponded Capacity - 50 State C Band (Month to Month)				
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 1-12	$7,784.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 13-24	$7,445.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 25-36	$7,107.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 37-54	$6,768.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 55-72	$6,632.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 73-144	$6,500.00	Per MHz per month
132-54 Transponded Capacity	Transponded Capacity - 50 State C-Band	Transponded Capacity, 1 month, 50-state C NP 145-288	$6,370.00	Per MHz per month
132-54 Transponded Capacity - Host Nation Agreement				
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Europe - Non-recurring Charges (One time charge for implementing licenses before operations for Europe.	$57,048.00	One time Charge/ Occurrence
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Africa - Non-recurring Charges (One time charge for implementing licenses before operations for Africa.	$146,268.00	One time Charge/ Occurrence
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Asia-Pac - Non-recurring Charges (One time charge for implementing licenses before operations for Asia-Pac.	$102,623.00	One time Charge/ Occurrence
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - South America - Non-recurring Charges (One time charge for implementing licenses before operations for South America.	$127,719.00	One time Charge/ Occurrence
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Europe - Recurring Administrative fees for licensing (including telecommunications and radio frequency licenses	$145,200.00	Annual Recurring Charge
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Africa - Recurring Administrative fees for licensing (including telecommunications and radio frequency licenses	$338,914.00	Annual Recurring Charge
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - Asia-Pac - Recurring Administrative fees for licensing (including telecommunications and radio frequency licenses	$141,616.00	Annual Recurring Charge
132-54 Transponded Capacity	Transponded Capacity - HNA	Host Nation Agreement - South America - Recurring Administrative fees for licensing (including telecommunications and radio frequency licenses	$135,207.00	Annual Recurring Charge
132-8 One-Way IDL Network	One-Way IDL Network	One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year One of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month. - One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year One of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month.	$21,235.01	Per Month
132-8 One-Way IDL Network	One-Way IDL Network	One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Two of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month. - One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Two of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month.	$16,069.71	Per Month
132-8 One-Way IDL Network	One-Way IDL Network - Scientific Atlanta	One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Three of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month. - One-	$12,605.48	Per Month

Product Category	Product Type	Product/Service	GSA Price	Unit
		Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Three of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month.		
132-8 One-Way IDL Network	One-Way IDL Network - Scientific Atlanta Downlink, installed	One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Four+ of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month. - One-Way IDL Network - Equipment Rental for Qty 140 of CLIN 320251, Qty 160 of CLIN 320252, and Qty 10 of CLIN 320022. This price is for Year Four+ of a deployed network and is effective 30 days after installation of the first HS3400 and requires minimum Qty of 12 Month.	$10,545.78	Per Month
132-8 VoIP Network				
132-8 Hughes VoIP Network	VoIP Hardware	4 Port VoIP ATA	$172.28	Each
132-8 Hosted VoIP Activation				
132-8 Hosted VoIP Network	Core Featues - Activation	Hosted VoIP - per line activation fee for Core Feautures	$23.92	Per Line
132-8 Hosted VoIP Network	Enterprise Featues - Activation	Hosted VoIP - per line activation fee to add Enterprise Feautures	$19.13	Per Line
132-8 Network Call Path VoIP				
132-8 Hosted VoIP Network	National Call Path	Network Call Path -- per DID	$19.13	Per DID
132-8VoIP HW Installation				
132-8 Hosted VoIP Network	VoIP HW Installation	Add-On ATA Install to Transport Install	$172.28	Each
132-8 Hosted VoIP Network	VoIP HW Installation	New ATA Installation - Non-Mall	$382.86	Each
132-8 Hosted VoIP Network	VoIP HW Installation	New ATA Installation - Mall	$449.86	Each
132-52 and 132-12 VoIP Monthly Charges Per Sit				
132-52 Hosted VoIP Network	Managed Services, NOC/Tier 3	Managed Services, NOC/Tier 3	$7.65	/site/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, NBD	$7.65	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, NCD	$9.56	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, 9x5	$8.60	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, 12x6	$10.52	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, 12x7	$11.48	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, 18x7	$12.43	/ATA/month
132-12 Hosted VoIP Network	Field Maintenance	VoIP Field Maintenance, 24x7	$13.39	/ATA/month
132-52 VoIP Monthly Charges Per Line				
132-52 Hosted VoIP Network	Hosted VoIP - Core	Hughes Hosted VoIP with Core Features	$21.05	/line/month
132-52 Hosted VoIP Network	Hosted VoIP - Enterprise	Hughes Hosted VoIP with Enterprise Features (incremental)	$10.52	/line/month
132-52 Per Line - Network Call Path				
132-52 Hosted VoIP Network	Network Call Path	Network Call Path - Core per DID	$6.69	Each
132-52 Per Trunk - Network Call Path				
132-52 Hosted VoIP Network	Network Call Path	Network Call Path - Per CCP	$38.28	Each
132-52 Minute Plan				
132-52 Hosted VoIP Network	Minute Plan	Per Minute	$0.038	/min
132-52 Hosted VoIP Network	Minute Plan	200 Minute Plan	$7.65	/site/month
132-52 Hosted VoIP Network	Minute Plan	500 Minute Plan	$19.13	/site/month
132-52 Hosted VoIP Network	Minute Plan	Unlimited Minute Plan	$23.92	/site/month
132-52 VoIP Options				
132-52 Hosted VoIP Network	VoIP Options	Auto Attendant (per site)	$10.52	/site/month
132-52 Hosted VoIP Network	VoIP Options	Site-to-Site Enterprise Store Code Dialing (per line)	$1.90	/site/month
132-52 Hosted VoIP Network	VoIP Options	Voicemail (per line)	$2.86	/site/month
132-9 Refurbished Equipment				
132-9 HN Ka Hardware & Installation	HN Ka	Refurbished HN9000, New .74m antenna, Refurbished 1watt radio, Standard installation.	$1,045.28	Each
132-9 HN Ka Hardware & Installation	HN Ka	Refurbished HN9000, New .98m antenna, Refurbished 1watt radio, Standard installation.	$1,148.28	Each
132-9 HN Ka Hardware & Installation	HN Ka	Refurbished HN9000, New .98m antenna, Refurbished 2watt radio, Standard installation.	$1,216.95	Each
132-8 Equipment - HT1300, 3.8m C-band antenna, 10W & 40W C Band NJRC BUC & installation materials				
132-8 HT1300, 3.8m C-band antenna, 10W C Band NJRC BUC	HT1300, 3.8m C-band antenna, 10W C Band NJRC BUC & installation materials	HT1300, 3.8m C-Band antenna, 10W C Band NJRC BUC, Flex Twist Waveguide 36 inches, RG6 coax cable 1000' &	$ 24, 399.78	Each

Product Category	Product Type	Product/Service	GSA Price	Unit
& installation materials		incidental installation materials.		
132-8 HT1300, 3.8m C-band antenna, 40W C Band NJRC BUC & installation materials	HT1300, 3.8m C-band antenna, 40W C Band NJRC BUC & installation materials	HT1300, 3.8m C-Band antenna, 40W C Band NJRC BUC, Flex Twist Waveguide 36 inches, RG6 coax cable 1000' & incidental installation materials.	$ 30,794.81	Each
132-55 VSAT (C –Band) Managed Services 512K/256K – Per Region				
132-55 VSAT (C –Band) Managed Services 512K/256K - South East Asia	VSAT (C –Band) Managed Services 512K/256K - South East Asia	VSAT (C –Band) Managed Services and Network Connectivity in South East Asia; 25:1 Contention Ratio (CR); Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support(Minimum 2 year initial purchase)	$ 1,399.82	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Europe, Africa & Middle East	VSAT (C –Band) Managed Services 512K/256K - Europe, Africa & Middle East	VSAT (C –Band) Managed Services and Network Connectivity in Europe, Africa & Middle East; 25:1 Contention Ratio (CR); Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support(Minimum 2 year initial purchase)	$ 1,466.12	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 128kbps CIR Out 64kbps	VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 128kbps CIR Out 64kbps	VSAT (C –Band) Managed Services and Network Connectivity in Africa; 8:1 Contention Ratio (CR); CIR In 128kbps CIR Out 64kbps; Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support(Minimum 2 year initial purchase)	$ 2,912.34	/month/site
132-55 VSAT (C –Band) Managed Services 192K/192K - Asia, Europe	VSAT (C –Band) Managed Services 192K/192K - Asia, Europe	VSAT (C –Band) Managed Services and Network Connectivity in Asia & Europe; 1:1 Contention Ratio (CR); CIR In 192kbps CIR Out 192kbps; Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support (Minimum 2 year initial purchase)	$ 3,508.07	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 192kbps CIR Out 128kbps	VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 192kbps CIR Out 128kbps	VSAT (C –Band) Managed Services and Network Connectivity in Africa; 8:1 Contention Ratio (CR); CIR In 192kbps CIR Out 128kbps; Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 3,580.05	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 256kbps CIR Out 128kbps	VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 256kbps CIR Out 128kbps	VSAT (C –Band) Managed Services and Network Connectivity in Africa; 8:1 Contention Ratio (CR); CIR In 256kbps CIR Out 128kbps; Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 3,954.16	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 384kbps CIR Out 192kbps	VSAT (C –Band) Managed Services 512K/256K - Africa CIR In 384kbps CIR Out 192kbps	VSAT (C –Band) Managed Services and Network Connectivity in Africa; 8:1 Contention Ratio (CR); CIR In 384kbps CIR Out 192kbps; Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 4,995.97	/month/site
132-55 VSAT (C –Band) Managed Services 512K/256K - Asia CIR In 256kbps CIR Out 128kbps	VSAT (C –Band) Managed Services 512K/256K - Asia CIR In 256kbps CIR Out 128kbps	VSAT (C –Band) Managed Services and Network Connectivity in Asia; 1:1 Contention Ratio (CR); CIR In 256kbps CIR Out 128kbps; Burst In – up to 512Kbps; Burst Out – up to 256Kbps); Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for	$ 5,773.23	/month/site

Product Category	Product Type	Product/Service	GSA Price	Unit
		escalation), and Transition In/Out support . (Minimum 2 year initial purchase)		
132-55 VSAT (C –Band) Managed Services 384K/384K - South America	VSAT (C –Band) Managed Services 384K/384K - South America	VSAT (C –Band) Managed Services and Network Connectivity in South America; 1:1 Contention Ratio (CR); CIR In 384kbps CIR Out 384kbps; Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support. (Minimum 2 year initial purchase)	$ 6,368.32	/month/site
132-55 VSAT (C –Band) Managed Services 1024K/1024K - Asia	VSAT (C –Band) Managed Services 1024K/1024K - Asia	VSAT (C –Band) Managed Services and Network Connectivity in Asia; 1:1 Contention Ratio (CR); CIR In 1024kbps CIR Out 1024kbps; Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 8,978.54	/month/site
132-55 VSAT (C –Band) Managed Services 2048K/2048K - Middle East	VSAT (C –Band) Managed Services 2048K/2048K - Middle East	VSAT (C –Band) Managed Services and Network Connectivity in Middle East; 1:1 Contention Ratio (CR); CIR In 2048kbps CIR Out 2048kbps; Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 25,080.24	/month/site
132-55 VSAT (C –Band) Managed Services 4096K/4096K - Africa	VSAT (C –Band) Managed Services 4096K/4096K - Africa	VSAT (C –Band) Managed Services and Network Connectivity in Africa; 1:1 Contention Ratio (CR); CIR In 4096kbps CIR Out 4096kbps; Lifecycle Support (program and inventory management; offer SLAs, Network Operations Center (24x7x365 continuous monitoring of the site; data collection and issue resolution), Help Desk (24x7x365 to support all sites with access to NOC for escalation), and Transition In/Out support . (Minimum 2 year initial purchase)	$ 46,724.39	/month/site
132-8 Managed Broadband - Performance Optimization Service				
132-8 Hughes Managed Broadband	Hughes Managed HR Series (or equivalent) Performance Optimization	Hughes Managed HR Series (or equivalent) Performance Optimization Service Activation - This service requires Hughes HR4700 or equivalent series router. This is a one time charge to activate Hughes Managed Performance Optimization Service on the Hughes managed router.	$189.41	Each
132-8 Hughes Managed Broadband	Hughes Managed HR Series (or equivalent) Performance Optimization	Hughes Managed HR Series(or equivalent) Performance Optimization Service – ActiveQoS - This service requires Hughes HR4700 or equivalent series router. This is a monthly charge to activate Hughes Managed ActiveQos on the Hughes managed router.Hughes ActiveQoS delivers better application performance and reduced transaction response times by transparently adding strong end-to-end quality of service (QoS) to commonly available broadband networks.	$9.46	/router/month
132-8 Hughes Managed Broadband	Hughes Managed HR Series (or equivalent) Performance Optimization	Hughes Managed HR Series (or equivalent) Performance Optimization Service - ActiveQoS and ActiveCompression - This service requires Hughes HR4700 series or equivalent router. This is a monthly charge to activate Hughes Managed ActiveQos and ActiveCompression on the Hughes managed router.Hughes ActiveQoS and ActiveCompression together will deliver better application performance and reduce transaction response times by transparently adding strong end-to-end quality of service (QoS) to commonly available broadband networks.	$12.30	/router/month
132-8 Hughes Managed Broadband	Hughes Managed Acceleration Gateway (ACGW)	Hughes Managed Acceleration Gateway (ACGW) - Max throughput 350 Mbps - This service requires Hughes HR4700 or equivalent series router. It is also required for Hughes Managed ActiveQos and ActiveCompression. This is a monthly charge to host a single Hughes Managed dedicated Acceleration Gateway Server at Hughes NOC. Each server can support max throughput of 350Mbps.	$376.47	/router/month
132-8 Managed Broadband - Managed Security Service				
132-8 Hughes Managed Broadband	Hughes Managed Security - Standard	Hughes Managed Security - Standard HR4700 (or equivalent) - This service requires Hughes HR4700 series or equivalent router. It is a mandatory basic security service.This service provides PCI compliance for customer networks managed by Hughes Security Operations Center (SOC) and firewall.	$13.09	/router/month

Product Category	Product Type	Product/Service	GSA Price	Unit
132-8 Hughes Managed Broadband	Hughes Managed Security - Standard w/Content Filtering	Hughes Managed Security - Standard w/Content Filtering, HR4700(or equivalent) - This service requires Hughes HR4700 series or equivalent router.This includes all functionality in the Standard Security service and adds content filtering capabilities – category-based, white list and black list.	$30.22	/router/month
132-8 Hughes Managed Broadband	Hughes Managed Security - Enhanced	Hughes Managed Security - Enhanced, HR4700 (or equivalent) -This service requires Hughes HR4700 series or equivalent router. This includes all functionality from the previous two tiers and adds intrusion detection, anti-virus & anti-malware, expanded logging and monitoring by the SOC, advanced reporting to the customer	$43.31	/router/month

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Analyst Level 1	Perform design and development of engineering assignments related to hardware products and systems, including the designing of subsystems and/or equipment. Duties may include research, development, and evaluation of new processes and methods into products. May be responsible for establishing and conducting testing routines or developing project plans. Participate in design reviews. Document work and results. Develop, test, and document software programs, including operating systems, applications, and/or network products. Responsibilities include coding, editing, documentation, and debugging of communication software based upon customer requirements. Design and analyze mechanical systems, equipment, and packages. Conduct feasibility studies and test for new and modified designs. Implements engineering plans and wide-scale systems solutions and networks for customers. Assists customers in the development of fully integrated systems, including processors, peripherals, communications, operations systems, and applications software. Monitors all activities of the network to ensure high-quality data transmission. Provides technical support in all customer interaction situations. Provides initial implementation support of networks to ensure proper execution and provides resolution for system failures or degradations. Performs technical analysis to determine present and future financial performance. Gathers, analyzes, prepares, and summarizes recommendations for financial plans, acquisition activity, trended future requirements, and operating forecasts. Responsible for consolidating and reporting company-wide financial forecasts on a monthly basis. Performs key role in annual budget process. Conducts financial analyses necessary to assist senior management in understanding business performance. Interacts regularly with senior management at divisional and corporate levels. ***Years of Experience: 0-2*** ***Education: BS***	$96.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Analyst Level 2	Perform design and development of engineering assignments related to hardware products and systems, including the designing of subsystems and/or equipment. Duties may include research, development, and evaluation of new processes and methods into products. May be responsible for establishing and conducting testing routines or developing project plans. Participate in design reviews. Document work and results. Develop, test, and document software programs, including operating systems, applications, and/or network products. Responsibilities include coding, editing, documentation, and debugging of communication software based upon customer requirements. Design and analyze mechanical systems, equipment and packages. Conduct feasibility studies and test for new and modified designs. Implements engineering plans and wide-scale systems solutions and networks for customers. Assists customers in the development of fully integrated systems, including processors, peripherals, communications, operations systems, and applications software. Monitors all activities of the network to ensure high-quality data transmission. Provides technical support in all customer interaction situations. Provides initial implementation support of networks to ensure proper execution and provides resolution for system failures or degradations. Performs technical analysis to determine present and future financial performance. Gathers, analyzes, prepares, and summarizes recommendations for financial plans, acquisition activity, trended future requirements, and operating forecasts. Responsible for consolidating and reporting company-wide financial forecasts on a monthly basis. Performs key role in annual budget process. Conducts financial analyses necessary to assist senior management in understanding business performance. Interacts regularly with senior management at divisional and corporate levels. ***Years of Experience: 2-4*** ***Education: BS***	$111.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Analyst Level 3	Perform design and development of engineering assignments related to hardware products and systems, including the designing of subsystems and/or equipment. Duties may include research, development, and evaluation of new processes and methods into products. May be responsible for establishing and conducting testing routines or developing project plans. Participate in design reviews. Document work and results. Develop, test, and document software programs, including operating systems, applications, and/or network products. Responsibilities include coding, editing, documentation, and debugging of communication software based upon customer requirements. Design and analyze mechanical systems, equipment, and packages. Conduct feasibility studies and test for new and modified designs. Implements engineering plans and wide-scale systems solutions and networks for customers. Assists customers in the development of fully integrated systems, including processors, peripherals, communications, operations systems, and applications software. Monitors all activities of the network to ensure high-quality data transmission. Provides technical support in all customer interaction situations. Provides initial implementation support of networks to ensure proper execution and provides resolution for system failures or degradations. Performs technical analysis to determine present and future financial performance. Gathers, analyzes, prepares, and summarizes recommendations for financial plans, acquisition activity, trended future requirements, and operating forecasts. Responsible for consolidating and reporting company-wide financial forecasts on a monthly basis. Performs key role in annual budget process. Conducts financial analyses necessary to assist senior management in understanding business performance. Interacts regularly with senior management at divisional and corporate levels. ***Years of Experience: 5*** ***Education: BS***	$121.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Analyst Level 4	Receives assignment in the form of objectives with goals and process to meet goals outlined. Exercises according to established policies to provide guidance to subordinates to achieve goals. Section leader in the development of chip level design to system level for use in a variety of products by providing lower level supervision to exempt and non-exempt employees. Frequent interactions amongst functional areas, other company divisions, outside customers, functional peer groups of management levels. Ability to define, implement, and test subsystems for use in targeted to state-of-the-art broadband products. Ability to lead a team of developers in the definition, implementation and testing of highly integrated components containing a variety of subsystems. In some instances, this manager may be responsible for functional area and may not have subordinates. Perform design and analysis along with coding, editing, documentation, and debugging of communication software with the additional responsibility leading and/or overseeing multiple projects. Exercise judgment within defined procedures and practices and policies in selecting methods and techniques for obtaining solutions. Responsible for the technical lead of design and analysis of mechanical systems, equipment and packages. Conduct feasibility studies and test for new and modified designs. Often responsible for the highly theoretical issues at the early development stages. May be responsible for the direction of junior engineers in the preparation of detailed design, design testing, and prototype fabrication. Implements engineering plans and wide-scale systems solutions and networks for customers. Assists customers in the development of fully integrated systems included processors, peripherals, communications, operations systems and applications software. Monitors all activities of the network to ensure high-quality data transmission. Provides technical support in all customer interaction situations. Provides initial implementation support of networks to ensure proper execution and provides resolution for system failures or degradations. Provide project management as required. Performs technical analysis to determine present and future financial performance. Gathers, analyzes, prepares, and summarizes recommendations for financial plans, acquisition activity, trended future requirements, and operating forecasts. Responsible for consolidating and reporting company-wide financial forecasts on a monthly basis. Performs key role in annual budget process. Conducts financial analyses necessary to assist senior management in understanding business performance. Interacts regularly with senior management at divisional and corporate levels.	$139.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
	Responsible for the development and performance of company programs/projects or subsystems of major programs/projects. Directs all phases of programs/projects from inception through completion. Participates in the preparation of proposals, negotiation of contract and contract changes, operating budgets and financial terms/conditions of contract. Acts as primary customer contact for program activities, leading program review sessions with customer to discuss cost, schedule and technical performance. Directs the establishment of design concepts, criteria, and engineering efforts for product research, development, integration and test. Develops new business or expands the product line with the customer. Establishes milestones and monitors adherence to master plans and schedules. Identifies program problems and obtains solutions, such as allocation of resources or changing contractual specifications. Degree of responsibilities will vary based upon the size of the annual budget. ***Years of Experience: 6-8*** ***Education: BS***	

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Manager Level 1	Receives assignment in the form of objectives with goals and process to meet goals outlined. Exercises according to established policies to provide guidance to subordinates to achieve goals. Section leader in the development of chip level design to system level for use in a variety of products by providing lower level supervision to exempt and non-exempt employees. Frequent interactions amongst functional areas, other company divisions, outside customers, functional peer groups of management levels. Ability to define, implement, and test subsystems for use in targeted to state-of-the-art broadband products. Ability to lead a team of developers in the definition, implementation, and testing of highly integrated components containing a variety of subsystems. In some instances, this manager may be responsible for functional area and may not have subordinates. Perform design and analysis along with coding, editing, documentation, and debugging of communication software with the additional responsibility leading and/or overseeing multiple projects. Exercise judgment within defined procedures and practices and policies in selecting methods and techniques for obtaining solutions. Responsible for the technical lead of design and analysis of mechanical systems, equipment, and packages. Conduct feasibility studies and test for new and modified designs. Often responsible for the highly theoretical issues at the early development stages. May be responsible for the direction of junior engineers in the preparation of detailed design, design testing, and prototype fabrication. Implements engineering plans and wide-scale systems solutions and networks for customers. Assists customers in the development of fully integrated systems included processors, peripherals, communications, operations systems and applications software. Monitors all activities of the network to ensure high-quality data transmission. Provides technical support in all customer interaction situations. Provides initial implementation support of networks to ensure proper execution and provides resolution for system failures or degradations. Provide project management as required. Responsible for the development and performance of company programs/projects or subsystems of major programs/projects. Directs all phases of programs/projects from inception through completion. Participates in the preparation of proposals, negotiation of contract and contract changes, operating budgets, and financial terms/conditions of contract. Acts as primary customer contact for program activities, leading program review sessions with customer to discuss cost, schedule, and technical performance. Directs the establishment of design concepts, criteria, and engineering efforts for product research, development, integration, and test. Develops new business or expands the product line with the customer. Establishes milestones and monitors adherence to master plans and schedules. Identifies program problems and obtains solutions, such as allocation of resources or changing contractual specifications. Degree of responsibilities will vary based upon the size of the annual budget. ***Years of Experience: 8-10*** ***Education: MS***	$153.50

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Manager Level 2	Receives assignment in the form of objectives with goals and process to meet goals outlined. Exercises according to established policies to provide guidance to subordinates to achieve goals. Section leader in the development of chip level design to system level for use in a variety of products by providing lower level supervision to exempt and non-exempt employees. Frequent interactions amongst functional areas, other company divisions, outside customers, functional peer groups of management levels. Ability to define, implement, and test subsystems for use in targeted to state-of-the-art broadband products. Ability to lead a team of developers in the definition, implementation, and testing of highly integrated components containing a variety of subsystems. In some instances, this manager may be responsible for functional area and may not have subordinates. Perform design and analysis along with coding, editing, documentation, and debugging of communication software with the additional responsibility leading and/or overseeing multiple projects. Exercise judgment within defined procedures and practices and policies in selecting methods and techniques for obtaining solutions. Responsible for the technical lead of design and analysis of mechanical systems, equipment, and packages. Conduct feasibility studies and test for new and modified designs. Often responsible for the highly theoretical issues at the early development stages. May be responsible for the direction of junior engineers in the preparation of detailed design, design testing, and prototype fabrication. Responsible for the development and performance of company programs/projects or subsystems of major programs/projects. Directs all phases of programs/projects from inception through completion. Participates in the preparation of proposals, negotiation of contract and contract changes, operating budgets, and financial terms/conditions of contract. Acts as primary customer contact for program activities, leading program review sessions with customer to discuss cost, schedule and technical performance. Directs the establishment of design concepts, criteria, and engineering efforts for product research, development, integration, and test. Develops new business or expands the product line with the customer. Establishes milestones and monitors adherence to master plans and schedules. Identifies program problems and obtains solutions, such as allocation of resources or changing contractual specifications. Degree of responsibilities will vary based upon size of annual budget. ***Years of Experience: 10-12*** ***Education: MS***	$183.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Manager Level 3	Receives assignments in the form of objectives with processes outlined in order to meet established goals. Section leader in the development of chip level to system level design for use in a variety of products. Ability to define, implement, and test subsystems to be used in state-of-the-art broadband products. Ability to lead a team of developers in the definition, implementation, and testing of highly integrated components containing a variety of subsystems. In some instances, this manager may or may not be responsible for functional area and subordinates. Frequent interactions amongst functional areas, other company divisions, outside customers, functional peer groups, and senior management. Perform design and analysis along with coding, editing, documentation, and debugging of communication software with the additional responsibility leading and/or overseeing multiple projects. Exercise judgment within defined procedures and practices and policies in selecting methods and techniques for obtaining solutions. Responsible for the technical lead of design and analysis of mechanical systems, equipment, and packages. Conduct feasibility studies and test for new and modified designs. Often responsible for the highly theoretical issues at the early development stages. May be responsible for the direction of junior engineers in the preparation of detailed design, design testing, and prototype fabrication. Provides overall technical, operational, and fiscal direction during the project lifecycle by developing comprehensive project plans to include both long- and short-term goals and milestones. Responsible for matrix management and deliverables. Works with Finance in order to secure payments for projects. Constant customer contact and outside vendor contact. ***Years of Experience: 12-15*** ***Education: MS***	$214.50
Engineering/Business Manager Level 4	This position will set strategy, provide leadership, plan, and execute large implementations, and continue the ongoing improvement of the overall processes within the engineering organization. This position will also provide direction in the areas of departmental establishment and maintenance of site attribute data for use within multiple business groups and service providers. Other duties include helping to improve business processes and product lines, and driving standardization and consistency related to both systems and processes. A history of solid communication skills, both within the systems groups and in interacting with business groups is necessary. Broad-based experience with project management, planning, and negotiation is needed. Experience leading small to medium project teams, solid technical skills, experience in process analysis and re-design, and a desire to operate as a hands-on, technical manager is also required. ***Years of Experience: 15+*** ***Education: MS***	$252.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Director Level 2	Responsible for directing the activities of a hardware development team. Oversees the analysis, design, programming, debugging, implementation, testing, and modification of hardware design. Maintain operating budget, and employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing the activities of a software applications development team. Oversees the analysis, design, programming, debugging, and modification of computer programs or end user applications. Maintain operating budget. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing and controlling the activities of a mechanical systems and equipment design function. Manages and analyzes the testing and feasibility studies of mechanical products and instruments and packaging for new and existing products. Evaluates final results of technical objectives and ensures proper documentation. Maintain operating budget and supervise employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. ***Years of Experience: 10-12*** ***Education: MS***	$192.45
Engineering/Business Director Level 3	Responsible for directing the activities of a hardware development team. Oversees the analysis, design, programming, debugging, implementation, testing, and modification of hardware design. Maintain operating budget, and employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing the activities of a software applications development team. Oversees the analysis, design, programming, debugging, and modification of computer programs or end user applications. Maintain operating budget. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing and controlling the activities of a mechanical systems and equipment design function. Manages and analyzes the testing and feasibility studies of mechanical products and instruments and packaging for new and existing products. Evaluates final results of technical objectives and ensures proper documentation. Maintain operating budget and supervise employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. ***Years of Experience: 12-15*** ***Education: MS***	$226.00

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Engineering/Business Director Level 4	Responsible for directing the activities of a hardware development team. Oversees the analysis, design, programming, debugging, implementation, testing, and modification of hardware design. Maintain operating budget, and employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing the activities of a software applications development team. Oversees the analysis, design, programming, debugging, and modification of computer programs or end user applications. Maintain operating budget. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. Responsible for directing and controlling the activities of a mechanical systems and equipment design function. Manages and analyzes the testing and feasibility studies of mechanical products and instruments and packaging for new and existing products. Evaluates final results of technical objectives and ensures proper documentation. Maintain operating budget and supervise employees. Provide direction and mentoring to fellow team members; set the appropriate goals and objectives. ***Years of Experience: 15+*** ***Education: MS***	$257.00
Technical/Business Specialist Level 1	Performs all operations necessary to test, align, and troubleshoot a variety of modules at the component level. Assists with installations and upgrades of equipment. Monitors and troubleshoots connections, traffic, and outages. Responsible for technical documentation, correspondence, and communication. Some contact with customers and outside vendors. Must have good customer interface skills. Responsible for performing administrative and clerical duties for individuals in an organization. Uses automated office equipment, such as a computer to compose routine letters, reports, and other materials. Maintains filing systems, screens calls and takes messages, and makes appointments and travel arrangements. Assists in the preparation of reports, graphs, and presentations using graphic software. Acts as an information source on organization policies and procedures. May assist in establishing office policies and procedures, and coordinating special projects and departmental activities. ***Years of Experience: 2-4*** ***Education: AA***	$70.50

132-51 IT PROFESSIONAL SERVICES	Description	Hourly Rate
Technical/Business Specialist Level 2	Performs all operations necessary to test, align, and troubleshoot a variety of modules at the component level. Assists with installations and upgrades of equipment. Monitors and troubleshoots connections, traffic, and outages. Responsible for technical documentation, correspondence, and communication. Some contact with customers and outside vendors. Must have good customer interface skills. Responsible for performing administrative and clerical duties for individuals in an organization. Uses automated office equipment, such as a computer to compose routine letters, reports, and other materials. Maintains filing systems, screens calls and takes messages, and makes appointments and travel arrangements. Assists in the preparation of reports, graphs, and presentations using graphic software. Acts as an information source on organization policies and procedures. May assist in establishing office policies and procedures, and coordinating special projects and departmental activities. ***Years of Experience: 4-6*** ***Education: AA***	$71.00
Technical/Business Specialist Level 3	Performs all operations necessary to test, align, and troubleshoot a variety of modules at the component level. Assists with installations and upgrades of equipment. Monitors and troubleshoots connections, traffic, and outages. Responsible for technical documentation, correspondence, and communication. Some contact with customers and outside vendors. Must have good customer interface skills. ***Years of Experience: 6-8*** ***Education: AA***	$80.50
Engineering/Business Vice President	Responsible for overseeing the lifecycle of a specific product or for directing the activities of a business unit within the company that is not a separate internal division. Responsibilities include planning with respect to the product line or business unit, engineering, R&D, marketing, financial planning, manpower planning, and may include manufacturing. Sometimes does not have profit and loss accountability but will be responsible for budget and expense. Direct reports would include senior management to ensure the attainment of financial and operational goals of the business unit. ***Years of Experience: 15+*** ***Education: BA/BS***	$314.45