INVITATION FOR BID

IFB C4DNCS19
Data Networks and Communications Services

CATEGORY 20 – MPLS DATA NETWORK

Verizon Business Services

Statement of Work

TECHNICAL REQUIREMENTS

March 5, 2020

BAFO

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AMENDMENT LOG

Amendment #	Date	Amendment Description
5	04/01/2021	Added Document Header Updated Table 20.2.9.3.b – Unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds. Updated Section 20.4.8 – Technical Service Level Agreements (SLAs) to include unsolicited service offereings.
8	09/28/2021	Updated Table 20.2.9.3.b – Unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds.s

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TECHNICAL REQUIREMENTS

Category 20 – MPLS DATA NETWORK

20.1 OVERVIEW

This Category 20 IFB C4DNCS19 (IFB) provides the State's solicitation for best value solutions for MPLS Data Network Services. This IFB also describes the CALNET technical requirements necessary to support the CALNET program requirements.

This IFB will be awarded to Bidders that meet the award criteria as described in IFB Part 1, Bid Evaluation. The CALNET Data Network and Communication Services (DNCS) Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET Contractor Management Organization (CALNET CMO).

20.1.1 Bidder Response Requirements

Throughout this IFB, Bidders are required to acknowledge acceptance of the requirements described herein by responding to one of the following:

1. Example A (for responses that require confirmation that the Bidder understands and accepts the requirement):

"Bidder understands this requirement and shall meet or exceed it? Choose an item.**"**

Or,

2. Example B (for responses that require the Bidder to provide a description or written response to the requirement):

Bidder understands this requirement and shall meet or exceed it? Choose an item.

Bidder's Description:

Or,

3. Example C (for responses contained in Technical Feature and/or Service Tables):

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
1					**Choose an item.**

20.1.2 Designation of Requirements

All Technical Requirements specified in this IFB are Mandatory and must be responded to as identified in IFB Part 1, SOW Mandatory Technical Requirements by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)".

Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the Category Cost Worksheets. Items not listed in the Category Cost Worksheets will not be billable by the Contractor. If additional unsolicited items include the features described in this IFB and are not included as billable in the Category Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

Services and features included in the Category Cost Worksheets are those that the Bidder must provide. All Bidders must provide individual prices as indicated in the Category Cost Worksheets in the Bidder's Final Proposal. Items submitted with no price will be considered as offered at no cost.

20.1.3 Pacific Time Zone

Unless specified otherwise, all times stated herein are times in the Pacific Time Zone.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2 MULTI-PROTOCOL LABEL SWITCHING (MPLS) SERVICES

Bidders shall confirm that the Contractor's Multi-Protocol Label Switching (MPLS) Wide Area Network (WAN) Virtual Private Network (VPN) service will meet all of the requirements described below.

20.2.1 MPLS Service Functionality

1. Contractors shall provide a private MPLS WAN VPN service for the networking of all voice, video and data applications.

Bidder understands this requirement and shall meet or exceed it? Yes

2. The MPLS WAN VPN service shall support voice, video and data applications over a single access connection with individual Class of Service (CoS) to allow each set of applications to be transported within its service specifications.

Bidder understands this requirement and shall meet or exceed it? Yes

3. The MPLS WAN VPN service shall support the ability to assign specific application priority over other applications.

Bidder understands this requirement and shall meet or exceed it? Yes

4. The MPLS WAN VPN service shall provide any-to-any connectivity.

Bidder understands this requirement and shall meet or exceed it? Yes

5. The MPLS WAN VPN service shall not use the public Internet for transport. Remote access to this solution may use the public Internet.

Bidder understands this requirement and shall meet or exceed it? Yes

6. The MPLS WAN VPN service shall be a fully Managed Service that includes the Customer edge layer 3 routing device.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.2 MPLS WAN VPN Configurations

The Bidder's MPLS WAN VPN service shall support the following configurations:

1. Port only configuration;

Bidder understands this requirement and shall meet or exceed it? Yes

2. Bundled port and access configuration; and,

Bidder understands this requirement and shall meet or exceed it? Yes

3. Bundled port, access and Customer edge layer 3 routing device configuration.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.3 MPLS Industry Security Standards

1. Upon request by the CALNET CMO, Contractor will provide for viewing at Contractor's facility the security controls in force for the MPLS WAN infrastructure as well as independent audit results of those controls for authorized State personnel (under NDA). This will include the full scope of controls NIST SP 800-53, ISO/IEC 27001, or equivalent. Where NDAs are not sufficient to allow access to Contractor's facility, the Contractor shall provide independent audit results to the State Information Security Officer.

Bidder understands this requirement and shall meet or exceed it? Yes

2. If Contractor determines that a breach of data has occurred within the Contractor's MPLS WAN that may involve CALNET Customer data, the nature and scope of the breach (as it affects Customer data) must be

reported to both the Customer and the CALNET CMO within 24 hours of that determination.

Bidder understands this requirement and shall meet or exceed it? Yes

3. If Contractor determines that a breach of infrastructure has occurred within the Contractor's MPLS WAN that may involve CALNET Customer data, the nature and scope of the breach (as it affects Customer data) must be reported to both the Customer and the CALNET CMO within 24 hours of that determination.

Bidder understands this requirement and shall meet or exceed it? Yes

4. Contractor shall apply available patches and/or updates which remediate published vulnerabilities in accordance CVSS v3.0 Base Score.

Bidder understands this requirement and shall meet or exceed it? Yes

5. Contractor shall provide to the CALNET CMO a report upon request detailing all (if any) actual violations of security protections, policies, practices, and/or procedures involving Contractor managed Customer edge devices and what remediation was implemented.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.3.1 MPLS Physical Security

Contractor shall physically secure all data and networking facilities through which data traverses Contractor's MPLS network complying with the physical security controls of NIST SP 800-53, ISO/IEC 27001, or equivalent standards.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.3.2 Protection against Unauthorized Access

Contractor shall provide access controls for all equipment through which data traverses Contractor's MPLS WAN complying with the physical security controls of NIST SP 800-53, ISO/IEC 27001, or equivalent standards.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.3.3 Data Breach Reporting

If Contractor determines that a breach of data has occurred that may involve CALNET Customer data, the nature and scope of the breach (as it affects

Customer data) shall be reported to both the Customer and the CALNET CMO within 24 hours of that determination.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.4 MPLS WAN VPN Standards

Bidders shall confirm that the Contractor's CALNET MPLS WAN VPN services meet all International Engineering Task Force (IETF) Standards and Request for Comments (RFC's).

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.5 MPLS Performance Metrics

Bidders shall confirm that the Contractor's solution will meet all of the requirements described below.

1. Service availability shall be 99.9% measured port to port.

Bidder understands this requirement and shall meet or exceed it? Yes

2. MPLS shall have a packet loss of <0.2% measured port to port.

Bidder understands this requirement and shall meet or exceed it? Yes

3. MPLS shall have jitter <10ms measured port to port.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.6 MPLS Geographic Service Areas

The Contractor shall provide the service where commercially available through Contractor owned facilities, third-party agreements, and as allowed by State or Federal regulations. Commitment to provide service is subject to facility availability as determined by the Bidder at time of bid submission and may be reassessed by Contractor at time of service order.

Special construction charges that may be required to provide this service are not included in this offering or contained within the CALNET contracts and must be acquired by the customer directly through other procurement means.

Table 20.2.6 – Bidder's MPLS Service Locations

Line Item	Service Location – City or ZIP Code
1	Sacramento: CLLI Code FROKCA11W12
2	Los Angeles: CLLI Code LSANCA03
3	

Line Item	Service Location – City or ZIP Code
4	
5	
6	
7	
8	
9	
10	

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.7 MPLS Network Designs and Diagrams

Bidders shall provide network designs and diagrams for the network and MPLS services.

Bidders shall provide one electronic copy with their proposal. Electronic drawings shall be in .dwg, .dfx, .vsd, .pdf or any mutually agreed format. Drawings must identify how the Contractor's network(s) deployed for each service type will address the following:

1. **Redundancy** – Having one or more circuits/systems deployed in case of failure of the main circuits/systems; and
2. **Diversity** – Backbone network paths and infrastructure offered in such a way as to minimize the chance of a single point of failure.

The Contractor shall provide soft and hard copy revisions upon CALNET CMO request.

Drawings shall include both topology and logical representations of all critical network backbone elements to include but not be limited to the following:

1. Geographic location of equipment;
2. Type and capacity of equipment at each location including any backup systems;
3. Service type;
4. Unique identifier for each element;
5. Circuit type; and,
6. General circuit route

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.8 MPLS Technical Requirements

Bidder shall confirm that its MPLS solution to be deployed for CALNET DNCS will include the technical features and functionality described below.

1. Contractor shall be able to scale the number of VPNs supported by the network.

Bidder understands this requirement and shall meet or exceed it? Yes

2. Contractor shall support multiple VPNs per access.

Bidder understands this requirement and shall meet or exceed it? Yes

3. Contractor shall support multiple VPNs across the MPLS network.

Bidder understands this requirement and shall meet or exceed it? Yes

4. Contractor shall provide the rapid service restoration practices for all MPLS deployments in accordance with the SLAs in the Technical Service Level Agreements Section.

Bidder understands this requirement and shall meet or exceed it? Yes

5. Contractor shall provide redundant network circuits in the backbone network.

Bidder understands this requirement and shall meet or exceed it? Yes

6. Contractor shall provide network diversity to eliminate single points of failure in the backbone network.

Bidder understands this requirement and shall meet or exceed it? Yes

7. Contractor shall provide a remote access service that allows an out of band access to any Customer site contained within the same VPN. The solution may utilize the public Internet.

Bidder understands this requirement and shall meet or exceed it? Yes

8. The remote access service shall be secured.

Bidder understands this requirement and shall meet or exceed it? Yes

9. The MPLS WAN VPN service shall support controlled and monitored connections between the MPLS network and the public Internet via a hardened trusted managed firewall.

Bidder understands this requirement and shall meet or exceed it? Yes

10. The MPLS WAN VPN service shall be resilient.

Bidder understands this requirement and shall meet or exceed it? Yes

11. Contractor shall provide support for multiple Layer 2 access protocols.

Bidder understands this requirement and shall meet or exceed it? Yes

12. Contractor shall provide segregation of Customer traffic in a VPN environment.

Bidder understands this requirement and shall meet or exceed it? Yes

13. The MPLS WAN VPN service shall support IPv4/v6 capability.

Bidder understands this requirement and shall meet or exceed it? Yes

14. The Contractor shall provide MPLS port diversity capability within the same MPLS PoP.

Bidder understands this requirement and shall meet or exceed it? Yes

15. The Contractor shall provide MPLS PoP diversity capability.

Bidder understands this requirement and shall meet or exceed it? Yes

16. The Contractor shall provide out-of-band backup capability to support routing of traffic outside of the MPLS network in case of MPLS network failure.

Bidder understands this requirement and shall meet or exceed it? Yes

17. The MPLS WAN VPN service shall support IP Multicasting.

Bidder understands this requirement and shall meet or exceed it? Yes

18. The MPLS WAN VPN service shall provide Multiple CoS to support the prioritization of Customer applications and traffic flows.

Bidder understands this requirement and shall meet or exceed it? Yes

19. The MPLS WAN VPN service shall support the division of an MPLS port into multiple logical channels such that each logical channel can be used to support a VPN.

Bidder understands this requirement and shall meet or exceed it? Yes

20. The MPLS WAN VPN service shall support multiple Layer 2 protocols.

Bidder understands this requirement and shall meet or exceed it? Yes

21. The MPLS WAN VPN service shall support wireless Customer access capability to the MPLS network.

Bidder understands this requirement and shall meet or exceed it? Yes

22. The Contractor shall provide out-of-band emergency access capability for emergency access to the managed Layer 3 routing device. The solution shall include any data communications equipment as required.

Bidder understands this requirement and shall meet or exceed it? Yes

23. Bidder shall confirm that its MPLS solution to be deployed for CALNET DNCS will provide fully managed Layer 3 routing device service bundles that include the following:

24. Layer 3 Routing Device Maintenance. Proactively detect, isolate and resolve hardware, software and firmware faults associated with the managed Layer 3 routing device and modem used for access to the managed Layer 3 routing device. The Contractor shall also respond to Customer reported faults. Layer 3 routing device maintenance shall be provided 24x7. If dispatch is required, a Field Service Repair Technician shall arrive within four hours of isolating the fault to the managed Layer 3 routing device. Customer shall be notified of Layer 3 routing device faults and be provided trouble status at one hour intervals.

Bidder understands this requirement and shall meet or exceed it? Yes

25. Layer 3 Routing Device Monitoring. Proactively detect, isolate and resolve logical faults associated with the managed Layer 3 routing device. Layer 3 routing device monitoring shall be provided 24x7.

Bidder understands this requirement and shall meet or exceed it? Yes

26. Layer 3 Routing Device Configuration Management. This includes passwords, access lists and configuration changes due to moves, adds, changes and deletes.

Bidder understands this requirement and shall meet or exceed it? Yes

27. The Contractor shall provide full read only access to the managed Layer 3 routing device.

Bidder understands this requirement and shall meet or exceed it? Yes

28. Network Monitoring. Proactively detect, isolate and resolve network faults. Network monitoring shall be provided 24x7. Customer shall be notified of network faults and be provided trouble status at one hour intervals.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.8.1 Network Operations Center

The Contractor shall maintain a Network Operations Center (NOC) that is staffed 24x7 that coordinates and manages all data traffic.

The Contractor shall be responsible for the following:

1. Fault management (trouble identification, isolation and notification); and,

Bidder understands the Requirement and shall meet or exceed it? Yes

2. Monitoring of Contractor's network performance in near real-time to identify capacity blockages and implement controls to optimize network health and performance immediately.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.8.2 Contractor Wi-Fi Hotspot Service Offerings

The Contractor shall not configure services utilizing state-funded (or leased) infrastructure or resources to provide Contractor branded Wi-Fi hotspots for a fee/subscription to the general public. Use of any publicly funded power, facilities, or infrastructure in State leased or owned buildings to provide Contractor fee based Wi-Fi services is considered a gift of public funds.

The Contractor shall not provide Contractor branded Wi-Fi hotspot services for non-CALNET users by piggybacking onto CALNET Customer primary installations or by any other means that utilize publicly funded assets. This restriction includes but is not limited to installation of secondary equipment, circuits, or data channels both land based and wireless.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.9 MPLS Transport Speeds

Bidder's CALNET MPLS solution shall include transport options to one endpoint for each of the speeds detailed in Tables 20.2.9.1 through 20.2.9.5. The Bidder shall identify the delivery method in the Bidder's Product Description (e.g., Ethernet, T1, etc.) Pricing for each of these speeds shall be provided by the Bidder in the response to the Category Cost Worksheets. Alternative delivery methods that differ from those the Bidder has identified in Tables 20.2.9.1.a, 20.2.9.2.a, and 20.2.9.3.a may be proposed in the corresponding unsolicited tables.

20.2.9.1 MPLS Port Transport Speeds

Table 20.2.9.1.a – MPLS Port Transport Speeds

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	MPLS Port Service at 1 Mbps	MPLS Port service at minimum line rate of 1 Mbps	Verizon will provide MPLS Port service at minimum line rate of 1 Mbps	MTRP0001	**Yes**
2	MPLS Port service at 3 Mbps	MPLS Port service at minimum line rate of 3 Mbps	Verizon will provide MPLS Port service at minimum line rate of 3 Mbps	MTRP0003	**Yes**
3	MPLS Port service at 4 Mbps	MPLS Port service at minimum line rate of 4 Mbps	Verizon will provide MPLS Port service at minimum line rate of 4 Mbps	MTRP0004	**Yes**
4	MPLS Port service at 5 Mbps	MPLS Port service at minimum line rate of 5 Mbps	Verizon will provide MPLS Port service at minimum line rate of 5 Mbps	MTRP0005	**Yes**
5	MPLS Port service at 7 Mbps	MPLS Port service at minimum line rate of 7 Mbps	Verizon will provide MPLS Port service at minimum line rate of 7 Mbps	MTRP0007	**Yes**
6	MPLS Port service at 9 Mbps	MPLS Port service at minimum line rate of 9 Mbps	Verizon will provide MPLS Port service at minimum line rate of 9 Mbps	MTRP0009	**Yes**
7	MPLS Port service at 10 Mbps	MPLS Port service at minimum line rate of 10 Mbps	Verizon will provide MPLS Port service at minimum line rate of 10 Mbps	TRPD0010	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
8	MPLS Port service at 12 Mbps	MPLS Port service at minimum line rate of 12 Mbps	Verizon will provide MPLS Port service at minimum line rate of 12 Mbps	TRPD0012	**Yes**
9	MPLS Port service at 15 Mbps	MPLS Port service at minimum line rate of 15 Mbps	Verizon will provide MPLS Port service at minimum line rate of 15 Mbps	TRPD0015	**Yes**
10	MPLS Port service at 20 Mbps	MPLS Port service at minimum line rate of 20 Mbps	Verizon will provide MPLS Port service at minimum line rate of 20 Mbps	TRPD0020	**Yes**
11	MPLS Port service at 30 Mbps	MPLS Port service at minimum line rate of 30 Mbps	Verizon will provide MPLS Port service at minimum line rate of 30 Mbps	TRPD0030	**Yes**
12	MPLS Port service at 40 Mbps	MPLS Port service at minimum line rate of 40 Mbps	Verizon will provide MPLS Port service at minimum line rate of 40 Mbps	TRPD0040	**Yes**
13	MPLS Port service at 50 Mbps	MPLS Port service at minimum line rate of 50 Mbps	Verizon will provide MPLS Port service at minimum line rate of 50 Mbps	TRPE0050	**Yes**
14	MPLS Port service at 60 Mbps	MPLS Port service at minimum line rate of 60 Mbps	Verizon will provide MPLS Port service at minimum line rate of 60 Mbps	TRPE0060	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
15	MPLS Port service at 70 Mbps	MPLS Port service at minimum line rate of 70 Mbps	Verizon will provide MPLS Port service at minimum line rate of 70 Mbps	TRPE0070	**Yes**
16	MPLS Port service at 80 Mbps	MPLS Port service at minimum line rate of 80 Mbps	Verizon will provide MPLS Port service at minimum line rate of 80 Mbps	TRPE0080	**Yes**
17	MPLS Port service at 90 Mbps	MPLS Port service at minimum line rate of 90 Mbps	Verizon will provide MPLS Port service at minimum line rate of 90 Mbps	TRPE0090	**Yes**
18	MPLS Port service at 100 Mbps	MPLS Port service at minimum line rate of 100 Mbps	Verizon will provide MPLS Port service at minimum line rate of 100 Mbps	TRPE0100	**Yes**
19	MPLS Port service at 150 Mbps	MPLS Port service at minimum line rate of 150 Mbps	Verizon will provide MPLS Port service at minimum line rate of 150 Mbps	TRPE0150	**Yes**
20	MPLS Port service at 200 Mbps	MPLS Port service at minimum line rate of 200 Mbps	Verizon will provide MPLS Port service at minimum line rate of 200 Mbps	TRPE0200	**Yes**
21	MPLS Port service at 250 Mbps	MPLS Port service at minimum line rate of 250 Mbps	Verizon will provide MPLS Port service at minimum line rate of 250 Mbps	TRPE0250	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
22	MPLS Port service at 300 Mbps	MPLS Port service at minimum line rate of 300 Mbps	Verizon will provide MPLS Port service at minimum line rate of 300 Mbps	TRPE0300	**Yes**
23	MPLS Port service at 400 Mbps	MPLS Port service at minimum line rate of 400 Mbps	Verizon will provide MPLS Port service at minimum line rate of 400 Mbps	TRPE0400	**Yes**
24	MPLS Port service at 500 Mbps	MPLS Port service at minimum line rate of 500 Mbps	Verizon will provide MPLS Port service at minimum line rate of 500 Mbps	TRPE0500	**Yes**
25	MPLS Port service at 600 Mbps	MPLS Port service at minimum line rate of 600 Mbps	Verizon will provide MPLS Port service at minimum line rate of 600 Mbps	TRPE0600	**Yes**
26	MPLS Port service at 700 Mbps	MPLS Port service at minimum line rate of 700 Mbps	Verizon will provide MPLS Port service at minimum line rate of 700 Mbps	TRPE0700	**Yes**
27	MPLS Port service at 1 Gbps	MPLS Port service at minimum line rate of 1 Gbps	Verizon will provide MPLS Port service at minimum line rate of 1 Gbps	TRPE1000	**Yes**
28	MPLS Port service at 2 Gbps	MPLS Port service at minimum line rate of 2 Gbps	Verizon will provide MPLS Port service at minimum line rate of 2 Gbps	TRPE2000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
29	MPLS Port service at 3 Gbps	MPLS Port service at minimum line rate of 3 Gbps	Verizon will provide MPLS Port service at minimum line rate of 3 Gbps	TRPE3000	**Yes**
30	MPLS Port service at 4 Gbps	MPLS Port service at minimum line rate of 4 Gbps	Verizon will provide MPLS Port service at minimum line rate of 4 Gbps	TRPE4000	**Yes**
31	MPLS Port service at 5 Gbps	MPLS Port service at minimum line rate of 5 Gbps	Verizon will provide MPLS Port service at minimum line rate of 5 Gbps	TRPE5000	**Yes**
32	MPLS Port service at 6 Gbps	MPLS Port service at minimum line rate of 6 Gbps	Verizon will provide MPLS Port service at minimum line rate of 6 Gbps	TRPE6000	**Yes**
33	MPLS Port service at 7 Gbps	MPLS Port service at minimum line rate of 7 Gbps	Verizon will provide MPLS Port service at minimum line rate of 7 Gbps	TRPE7000	**Yes**
34	MPLS Port service at 8 Gbps	MPLS Port service at minimum line rate of 8 Gbps	Verizon will provide MPLS Port service at minimum line rate of 8 Gbps	TRPE8000	**Yes**
35	MPLS Port service at 9 Gbps	MPLS Port service at minimum line rate of 9 Gbps	Verizon will provide MPLS Port service at minimum line rate of 9 Gbps	TRPE9000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
36	MPLS Port service at 10 Gbps	MPLS Port service at minimum line rate of 10 Gbps	Verizon will provide MPLS Port service at minimum line rate of 10 Gbps	TRNE0010	**Yes**

The Contractor may offer additional unsolicited MPLS Port Transport Speeds in Table 20.2.9.1.b.

Table 20.2.9.1.b – Unsolicited MPLS Port Transport Speeds

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	MPLS Port - 1.544 Mbps	TRPN1544	Verizon will provide MPLS port transport service at a minimum line rate of 1.544 Mbps port.
2	MPLS Port - 3.0883 Mbps	TRPN3088	Verizon will provide MPLS port transport service at a minimum line rate of 3.0883 Mbps port.
3	MPLS Port - 4.632 Mbps	TRPN4632	Verizon will provide MPLS port transport service at a minimum line rate of 4.632 Mbps port.
4	MPLS Port - 6.176 Mbps	TRPN6176	Verizon will provide MPLS port transport service at a minimum line rate of 6.176 Mbps port.
5	MPLS Port - 7.720 Mbps	TRPN7720	Verizon will provide MPLS port transport service at a minimum line rate of 7.720 Mbps port.
6	MPLS Port - 9.264 Mbps	TRPN9264	Verizon will provide MPLS port transport service at a minimum line rate of 9.264 Mbps port.
7	MPLS Port - 12.252 Mbps	TRPL0012	Verizon will provide MPLS port transport service at a minimum line rate of 12.252 Mbps port.
8	MPLS Port - 45 Mbps	TRPT0045	Verizon will provide MPLS port transport service at a minimum line rate of 45 Mbps port.
9	MPLS Port - 155 Mbps	TRPT0155	Verizon will provide MPLS port transport service at a minimum line rate of 155 Mbps port.
10	MPLS Port - 622 Mbps	TRPT0622	Verizon will provide MPLS port transport service at a minimum line rate of 622 Mbps port.
11	MPLS Port - 2.488 Gbps	TRGP2488	Verizon will provide MPLS port transport service at a minimum line rate of 2.488 Gbps port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
12	MPLS Port - 9.953 Gbps	TRGP9953	Verizon will provide MPLS port transport service at a minimum line rate of 9.953 Gbps port.
13	MPLS Port - 2 Mbps	ETNP0002	Verizon will provide MPLS Transport Ethernet Port service at 2 Mbps.
14	MPLS Port - 6 Mbps	ETNP0006	Verizon will provide MPLS Transport Ethernet Port service at 6 Mbps.
15	MPLS Port - 8 Mbps	ETNP0008	Verizon will provide MPLS Transport Ethernet Port service at 8 Mbps.

20.2.9.2 MPLS Port and Access Bundled Transport Speeds

Table 20.2.9.2.a – MPLS Port and Access Bundled Transport Speeds

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	MPLS Port and Access service at 1 Mbps	MPLS Port and Access service at minimum line rate of 1 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 1 Mbps.	MTRA0001	**Yes**
2	MPLS Port and Access service at 3 Mbps	MPLS Port and Access service at minimum line rate of 3 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 3 Mbps.	MTRA0003	**Yes**
3	MPLS Port and Access service at 4 Mbps	MPLS Port and Access service at minimum line rate of 4 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 4 Mbps.	MTRA0004	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
4	MPLS Port and Access service at 5 Mbps	MPLS Port and Access service at minimum line rate of 5 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 5 Mbps.	MTRA0005	**Yes**
5	MPLS Port and Access service at 7 Mbps	MPLS Port and Access service at minimum line rate of 7 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 7 Mbps.	MTRA0007	**Yes**
6	MPLS Port and Access service at 9 Mbps	MPLS Port and Access service at minimum line rate of 9 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 9 Mbps.	MTRA0009	**Yes**
7	MPLS Port and Access service at 10 Mbps	MPLS Port and Access service at minimum line rate of 10 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 10 Mbps.	TRDA0010	**Yes**
8	MPLS Port and Access service at 12 Mbps	MPLS Port and Access service at minimum line rate of 12 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 12 Mbps.	TRDA0012	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	MPLS Port and Access service at 15 Mbps	MPLS Port and Access service at minimum line rate of 15 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 15 Mbps.	TRDA0015	**Yes**
10	MPLS Port and Access service at 20 Mbps	MPLS Port and Access service at minimum line rate of 20 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 20 Mbps.	TRDA0020	**Yes**
11	MPLS Port and Access service at 30 Mbps	MPLS Port and Access service at minimum line rate of 30 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 30 Mbps.	TRDA0030	**Yes**
12	MPLS Port and Access service at 40 Mbps	MPLS Port and Access service at minimum line rate of 40 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 40 Mbps.	TRDA0040	**Yes**
13	MPLS Port and Access service at 50 Mbps	MPLS Port and Access service at minimum line rate of 50 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 50 Mbps.	TREA0050	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
14	MPLS Port and Access service at 60 Mbps	MPLS Port and Access service at minimum line rate of 60 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 60 Mbps.	TREA0060	**Yes**
15	MPLS Port and Access service at 70 Mbps	MPLS Port and Access service at minimum line rate of 70 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 70 Mbps.	TREA0070	**Yes**
16	MPLS Port and Access service at 80 Mbps	MPLS Port and Access service at minimum line rate of 80 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 80 Mbps.	TREA0080	**Yes**
17	MPLS Port and Access service at 90 Mbps	MPLS Port and Access service at minimum line rate of 90 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 90 Mbps.	TREA0090	**Yes**
18	MPLS Port and Access service at 100 Mbps	MPLS Port and Access service at minimum line rate of 100 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 100 Mbps.	TREA0100	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
19	MPLS Port and Access service at 150 Mbps	MPLS Port and Access service at minimum line rate of 150 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 150 Mbps.	TREA0150	**Yes**
20	MPLS Port and Access service at 200 Mbps	MPLS Port and Access service at minimum line rate of 200 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 200 Mbps.	TREA0200	**Yes**
21	MPLS Port and Access service at 250 Mbps	MPLS Port and Access service at minimum line rate of 250 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 250 Mbps.	TREA0250	**Yes**
22	MPLS Port and Access service at 300 Mbps	MPLS Port and Access service at minimum line rate of 300 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 300 Mbps.	TREA0300	**Yes**
23	MPLS Port and Access service at 400 Mbps	MPLS Port and Access service at minimum line rate of 400 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 400 Mbps.	TREA0400	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
24	MPLS Port and Access service at 500 Mbps	MPLS Port and Access service at minimum line rate of 500 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 500 Mbps.	TREA0500	**Yes**
25	MPLS Port and Access service at 600 Mbps	MPLS Port and Access service at minimum line rate of 600 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 600 Mbps.	TREA0600	**Yes**
26	MPLS Port and Access service at 700 Mbps	MPLS Port and Access service at minimum line rate of 700 Mbps	Verizon will provide MPLS Port and Access service at minimum line rate of 700 Mbps.	TREA0700	**Yes**
27	MPLS Port and Access service at 1 Gbps	MPLS Port and Access service at minimum line rate of 1 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 1 Gbps.	TREA1000	**Yes**
28	MPLS Port and Access service at 2 Gbps	MPLS Port and Access service at minimum line rate of 2 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 2 Gbps.	TREA2000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
29	MPLS Port and Access service at 3 Gbps	MPLS Port and Access service at minimum line rate of 3 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 3 Gbps.	TREA3000	**Yes**
30	MPLS Port and Access service at 4 Gbps	MPLS Port and Access service at minimum line rate of 4 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 4 Gbps.	TREA4000	**Yes**
31	MPLS Port and Access service at 5 Gbps	MPLS Port and Access service at minimum line rate of 5 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 5 Gbps.	TREA5000	**Yes**
32	MPLS Port and Access service at 6 Gbps	MPLS Port and Access service at minimum line rate of 6 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 6 Gbps.	TREA6000	**Yes**
33	MPLS Port and Access service at 7 Gbps	MPLS Port and Access service at minimum line rate of 7 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 7 Gbps.	TREA7000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
34	MPLS Port and Access service at 8 Gbps	MPLS Port and Access service at minimum line rate of 8 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 8 Gbps.	TREA8000	**Yes**
35	MPLS Port and Access service at 9 Gbps	MPLS Port and Access service at minimum line rate of 9 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 9 Gbps.	TREA9000	**Yes**
36	MPLS Port and Access service at 10 Gbps	MPLS Port and Access service at minimum line rate of 10 Gbps	Verizon will provide MPLS Port and Access service at minimum line rate of 10 Gbps.	TRET0010	**Yes**

The Contractor may offer additional unsolicited MPLS Port and Access Transport Speeds in Table 20.2.9.2.b.

Table 20.2.9.2.b – Unsolicited MPLS Port and Access Bundled Transport Speeds

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	MPLS Port and Access - 1.544 Mbps UNI Speed	TRPA1544	Verizon will provide MPLS Port and Access - 1.544 Mbps UNI Speed
2	MPLS Port and Access - 3.0883 Mbps UNI Speed	TRPA3088	Verizon will provide MPLS Port and Access - 3.0883 Mbps UNI Speed

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
3	MPLS Port and Access - 4.632 Mbps UNI Speed	TRPA4632	Verizon will provide MPLS Port and Access - 4.632 Mbps UNI Speed
4	MPLS Port and Access - 6.176 Mbps UNI Speed	TRPA6176	Verizon will provide MPLS Port and Access - 6.176 Mbps UNI Speed
5	MPLS Port and Access - 7.720 Mbps UNI Speed	TRPA7720	Verizon will provide MPLS Port and Access - 7.720 Mbps UNI Speed
6	MPLS Port and Access - 9.264 Mbps UNI Speed	TRPA9264	Verizon will provide MPLS Port and Access - 9.264 Mbps UNI Speed
7	MPLS Port and Access - 12.252 Mbps UNI Speed	MACP0000	Verizon will provide MPLS Port and Access - 12.252 Mbps UNI Speed
8	MPLS Port and Access - 45 Mbps UNI Speed	MCEA0045	Verizon will provide MPLS Port and Access - 45 Mbps UNI Speed
9	MPLS Port and Access - 155 Mbps UNI Speed	MCEA0155	Verizon will provide MPLS Port and Access - 155 Mbps UNI Speed
10	MPLS Port and Access - 622 Mbps UNI Speed	MCEA0622	Verizon will provide MPLS Port and Access - 622 Mbps UNI Speed
11	MPLS Port and Access - 2.488 Gbps UNI Speed	MCAC2488	Verizon will provide MPLS Port and Access - 2.488 Gbps UNI Speed
12	MPLS Port and Access - 9.953 Gbps UNI Speed	MCAC9953	Verizon will provide MPLS Port and Access - 9.953 Gbps UNI Speed
13	MPLS Port and Access - 2 Mbps UNI Speed	EACS0002	Verizon will provide MPLS Port and Access - 2 Mbps UNI Speed
14	MPLS Port and Access - 6 Mbps UNI Speed	EACS0006	Verizon will provide MPLS Port and Access - 6 Mbps UNI Speed
15	MPLS Port and Access - 8 Mbps UNI Speed	EACS0008	Verizon will provide MPLS Port and Access - 8 Mbps UNI Speed

20.2.9.3 MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds

Table 20.2.9.3.a – MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	MPLS port, access and Layer 3 routing device bundled service at 1 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Mbps	MPTR1544	**Yes**
2	MPLS port, access and Layer 3 routing device bundled service at 3 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Mbps	MPTR3088	**Yes**
3	MPLS port, access and Layer 3 routing device bundled service at 4 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Mbps	MPTR4362	**Yes**
4	MPLS port, access and Layer 3 routing device bundled service at 5 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Mbps	MPTR6176	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
5	MPLS port, access and Layer 3 routing device bundled service at 7 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Mbps	MPTR7720	**Yes**
6	MPLS port, access and Layer 3 routing device bundled service at 9 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Mbps	MPTR9264	**Yes**
7	MPLS port, access and Layer 3 routing device bundled service at 10 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Mbps	MTAL0010	**Yes**
8	MPLS port, access and Layer 3 routing device bundled service at 12 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 12 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 12 Mbps	MPTD0012	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	MPLS port, access and Layer 3 routing device bundled service at 15 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 15 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 15 Mbps	MTAL0015	**Yes**
10	MPLS port, access and Layer 3 routing device bundled service at 20 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 20 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 20 Mbps	MTAL0020	**Yes**
11	MPLS port, access and Layer 3 routing device bundled service at 30 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 30 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 30 Mbps	MTAL0030	**Yes**
12	MPLS port, access and Layer 3 routing device bundled service at 40 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 40 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 40 Mbps	MTAL0040	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
13	MPLS port, access and Layer 3 routing device bundled service at 50 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 50 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 50 Mbps	MPAC0050	**Yes**
14	MPLS port, access and Layer 3 routing device bundled service at 60 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 60 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 60 Mbps	MPAC0060	**Yes**
15	MPLS port, access and Layer 3 routing device bundled service at 70 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 70 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 70 Mbps	MPAC0070	**Yes**
16	MPLS port, access and Layer 3 routing device bundled service at 80 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 80 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 80 Mbps	MPAC0080	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
17	MPLS port, access and Layer 3 routing device bundled service at 90 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 90 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 90 Mbps	MPAC0090	**Yes**
18	MPLS port, access and Layer 3 routing device bundled service at 100 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 100 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 100 Mbps	MPAC0100	**Yes**
19	MPLS port, access and Layer 3 routing device bundled service at 150 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 150 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 150 Mbps	MPAC0150	**Yes**
20	MPLS port, access and Layer 3 routing device bundled service at 200 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 200 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 200 Mbps	MPAC0200	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
21	MPLS port, access and Layer 3 routing device bundled service at 250 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 250 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 250 Mbps	MPAC0250	**Yes**
22	MPLS port, access and Layer 3 routing device bundled service at 300 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 300 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 300 Mbps	MPAC0300	**Yes**
23	MPLS port, access and Layer 3 routing device bundled service at 400 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 400 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 400 Mbps	MPAC0400	**Yes**
24	MPLS port, access and Layer 3 routing device bundled service at 500 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 500 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 500 Mbps	MPAC0500	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
25	MPLS port, access and Layer 3 routing device bundled service at 600 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 600 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 600 Mbps	MPAC0600	**Yes**
26	MPLS port, access and Layer 3 routing device bundled service at 700 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 700 Mbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 700 Mbps	MPAC0700	**Yes**
27	MPLS port, access and Layer 3 routing device bundled service at 1 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Gbps	MPAC1000	**Yes**
28	MPLS port, access and Layer 3 routing device bundled service at 2 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 2 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 2 Gbps	MPAC2000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
29	MPLS port, access and Layer 3 routing device bundled service at 3 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Gbps	MPAC3000	**Yes**
30	MPLS port, access and Layer 3 routing device bundled service at 4 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Gbps	MPAC4000	**Yes**
31	MPLS port, access and Layer 3 routing device bundled service at 5 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Gbps	MPAC5000	**Yes**
32	MPLS port, access and Layer 3 routing device bundled service at 6 Gbps	MPLS port, access and Layer 3 routing device bundled service at a minimum line rate of 6 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 6 Gbps	MPAC6000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
33	MPLS port, access and Layer 3 routing device bundled service at 7 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Gbps	MPAC7000	**Yes**
34	MPLS port, access and Layer 3 routing device bundled service at 8 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 8 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 8 Gbps	MPAC8000	**Yes**
35	MPLS port, access and Layer 3 routing device bundled service at 9 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Gbps	MPAC9000	**Yes**
36	MPLS port, access and Layer 3 routing device bundled service at 10 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Gbps	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Gbps	MPAA0010	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
37	Out-of-band access to the managed layer 3 routing device	Out-of-band emergency access capability for emergency access to the managed layer 3 routing device.	Verizon will provide Out-of-band emergency access capability for emergency access to the managed layer 3 routing device	OBML0000	**Yes**

The Contractor may offer additional unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds in Table 20.2.9.3.b.

Table 20.2.9.3.b – Unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	MPLS port, access and Layer 3 routing device bundled service at 1.544 Mbps	MPLR1544	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 1.544 Mbps
2	MPLS port, access and Layer 3 routing device bundled service at 3.0883 Mbps	MPLR3088	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 3.0883 Mbps

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
3	MPLS port, access and Layer 3 routing device bundled service at 4.632 Mbps	MPLR4632	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 4.632 Mbps
4	MPLS port, access and Layer 3 routing device bundled service at 6.176 Mbps	MPLR6176	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 6.176 Mbps
5	MPLS port, access and Layer 3 routing device bundled service at 7.720 Mbps	MPLR7720	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 7.720 Mbps
6	MPLS port, access and Layer 3 routing device bundled service at 9.264 Mbps	MPLR9264	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 9.264 Mbps
7	MPLS port, access and Layer 3 routing device bundled service at 12.252 Mbps	MLLR0012	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 12.252 Mbps

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
8	MPLS port, access and Layer 3 routing device bundled service at 45 Mbps	MPAL0045	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 45 Mbps
9	MPLS port, access and Layer 3 routing device bundled service at 155 Mbps	MPAL0155	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 155 Mbps
10	MPLS port, access and Layer 3 routing device bundled service at 622 Mbps	MPAL0622	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 622 Mbps
11	MPLS port, access and Layer 3 routing device bundled service at 2.488 Gbps	MPLC2488	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 2.488 Gbps
12	MPLS port, access and Layer 3 routing device bundled service at 9.953 Gbps	MPLC9953	Verizon will provide MPLS port, access and Layer 3 routing device bundled service at 9.953 Gbps

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
13	Expedite MPLS Service	MXEP0000	Verizon is proposing Expedite MPLS as an unsolicited service offering in Category 20. Verizon is providing Expedite MPLS Service which will provide to the customer improved installation intervals less than the standard intervals. Standard intervals for provisioning the following services include: Service: MPLS Port Transport /Interval: 35 Type: Coordinated/Managed Project Service: MPLS Port and Access Bundle Transport Interval: 35 Type: Coordinated/Managed Project Service: MPLS Port, Access and Router Transport Interval: 45 Type: Coordinated/Managed Project Service: MPLS Port, Access and Router Bundled On-Net Transport Speeds Interval: 45 Type: Coordinated/Managed Project Service: MPLS Port, Access and Router Bundled Off-Net Transport Speeds Interval: 45 Type: Coordinated/Managed Project Service: MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Interval: 45 Type: Coordinated/Managed Project
14	MPLS EF Gold CAR at 8 Kbps	EFGC0008	MPLS EF Gold CAR at 8 Kbps provides one additional queue for Expedited Forwarding (EF) traffic added to the customer's IP Transport Service.
15	MPLS EF Gold CAR at 16 Kbps	EFGC0016	Verizon will provide MPLS EF Gold EF CAR at 16 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
16	MPLS EF Gold CAR at 32 Kbps	EFGC0032	Verizon will provide MPLS EF Gold CAR at 32 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
17	MPLS EF Gold CAR at 128 Kbps	EFGC0128	Verizon will provide MPLS EF Gold CAR at 128 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
18	MPLS EF Gold CAR at 256 Kbps	EFGC0256	Verizon will provide MPLS EF Gold CAR at 256 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
19	MPLS EF Gold CAR at 384 Kbps	EFGC0384	Verizon will provide MPLS EF Gold CAR at 384 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
20	MPLS EF Gold CAR at 512 Kbps	EFGC0512	Verizon will provide MPLS EF Gold CAR at 512 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
21	MPLS EF Gold CAR at 768 Kbps	EFGC0768	Verizon will provide MPLS EF Gold CAR at 768 Kbps provides one additional queue for Expedited Forwarding (EF) traffic.
22	MPLS EF Gold CAR at 1.024 Mbps	EFGC1024	Verizon will provide MPLS EF Gold CAR at 1.024 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
23	MPLS EF Gold CAR at 1.376 Mbps	EFGC1376	Verizon will provide MPLS EF Gold CAR at 1.376 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
24	MPLS EF Gold CAR at 1.536 Mbps	EFGC1536	Verizon will provide MPLS EF Gold CAR at 1.536 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
25	MPLS EF Gold CAR at 1.728 Mbps	EFGC1728	Verizon will provide MPLS EF Gold CAR at 1.728 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
26	MPLS EF Gold CAR at 2 Mbps	EMGC0002	Verizon will provide MPLS EF Gold CAR at 2 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
27	MPLS EF Gold CAR at 3 Mbps	EMGC0003	Verizon will provide MPLS EF Gold CAR at 3 Mbps provides one additional queue for Expedited F1 (EF) traffic.
28	MPLS EF Gold CAR at 3.5 Mbps	EFMC0003	Verizon will provide MPLS EF Gold CAR at 3.5 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
29	MPLS EF Gold CAR at 4.096 Mbps	EMGC4096	Verizon will provide MPLS EF Gold CAR at 4.096 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
30	MPLS EF Gold CAR at 5 Mbps	EMGC0005	Verizon will provide MPLS EF Gold CAR at 5 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
31	MPLS EF Gold CAR at 7.2 Mbps	EMGC0007	Verizon will provide MPLS EF Gold CAR at 7.2 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
32	MPLS EF Gold CAR at 9.216 Mbps	EMGC9216	Verizon will provide MPLS EF Gold CAR at 9.216 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
33	MPLS EF Gold CAR at 10 Mbps	EMGC0010	Verizon will provide MPLS EF Gold CAR at 10 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
34	MPLS EF Gold CAR at 13.488 Mbps	EMGC0013	Verizon will provide MPLS EF Gold CAR at 13.488 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
35	MPLS EF Gold CAR at 15.360 Mbps	EMGC0015	Verizon will provide MPLS EF Gold CAR at 15.360 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
36	MPLS EF Gold CAR at 17.808 Mbps	EMGC0017	Verizon will provide MPLS EF Gold CAR at 17.808 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
37	MPLS EF Gold CAR at 18.432 Mbps	EMGC0018	Verizon will provide MPLS EF Gold CAR at 18.432 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
38	MPLS EF Gold CAR at 20 Mbps	EMGC0020	Verizon will provide MPLS EF Gold CAR at 20 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
39	MPLS EF Gold CAR at 24.576 Mbps	EMGC0024	Verizon will provide MPLS EF Gold CAR at 24.576 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
40	MPLS EF Gold CAR at 30 Mbps	EMGC0030	Verizon will provide MPLS EF Gold CAR at 30 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
41	MPLS EF Gold CAR at 40 Mbps	EMGC0040	Verizon will provide MPLS EF Gold CAR at 40 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
42	MPLS EF Gold CAR at 44.992 Mbps	EMGC0044	Verizon will provide MPLS EF Gold CAR at 44.992 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
43	MPLS EF Gold CAR at 50 Mbps	EMGC0050	Verizon will provide MPLS EF Gold CAR at 50 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
44	MPLS EF Gold CAR at 72 Mbps	EMGC0072	Verizon will provide MPLS EF Gold CAR at 72 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
45	MPLS EF Gold CAR at 90 Mbps	EMGC0090	Verizon will provide MPLS EF Gold CAR at 90 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
46	MPLS EF Gold CAR at 110.500 Mbps	EMGC0110	Verizon will provide MPLS EF Gold CAR at 110.500 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
47	MPLS EF Gold CAR at 139.936 Mbps	EMGC0139	Verizon will provide MPLS EF Gold CAR at 139.936 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
48	MPLS EF Gold CAR at 180 Mbps	EMGC0180	Verizon will provide MPLS EF Gold CAR at 180 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
49	MPLS EF Gold CAR at 248.8 Mbps	EMGC0248	Verizon will provide MPLS EF Gold CAR at 248.8 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
50	MPLS EF Gold CAR at 450 Mbps	EMGC0450	Verizon will provide MPLS EF Gold CAR at 450 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
51	MPLS EF Gold CAR at 700 Mbps	EMGC0700	Verizon will provide MPLS EF Gold CAR at 700 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.
52	MPLS EF Gold CAR at 900 Mbps	EMGC0900	Verizon will provide MPLS EF Gold CAR at 900 Mbps provides one additional queue for Expedited Forwarding (EF) traffic.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
53	MPLS Multicast Tier 8 - 100 Mbps-499.99 Mbps	MMTC0100	Verizon will provide MPLS Multicast Tier 8 - 100 Mbps-499.99 Mbps
54	MPLS Multicast Tier 9 - 500 Mbps-999.99 Mbps	MMTC0500	Verizon will provide MPLS Multicast Tier 9 - 500 Mbps-999.99 Mbps
55	MPLS Port Only Cross Connect 200 Mbps Ethernet	MPOC0200	Verizon will provide MPLS Port Only Cross Connect 200 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 200 Mbps Ethernet.
56	MPLS Port Only Cross Connect 250 Mbps Ethernet	MPOC0250	Verizon will provide MPLS Port Only Cross Connect 250 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 250 Mbps Ethernet.
57	MPLS Port Only Cross Connect 300 Mbps Ethernet	MPOC0300	Verizon will provide MPLS Port Only Cross Connect is a Point-to-point Intra-building Cross Connect at 300 Mbps Ethernet.
58	MPLS Port Only Cross Connect 350 Mbps Ethernet	MPOC0350	Verizon will provide MPLS Port Only Cross Connect 350 is a Point-to-point Intra-building Cross Connect at 350 Mbps Ethernet.
59	MPLS Port Only Cross Connect 400 Mbps Ethernet	MPOC0400	Verizon will provide MPLS Port Only Cross Connect 400 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 400 Mbps Ethernet.
60	MPLS Port Only Cross Connect 450 Mbps Ethernet	MPOC0450	Verizon will provide MPLS Port Only Cross Connect 450 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 450 Mbps Ethernet.
61	MPLS Port Only Cross Connect 500 Mbps Ethernet	MPOC0500	Verizon will provide MPLS Port Only Cross Connect 500 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 500 Mbps Ethernet.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
62	MPLS Port Only Cross Connect 600 Mbps Ethernet	MPOC0600	Verizon will provide MPLS Port Only Cross Connect 600 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 600 Mbps Ethernet.
63	MPLS Port Only Cross Connect 700 Mbps Ethernet	MPOC0700	Verizon will provide MPLS Port Only Cross Connect 700 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 700 Mbps Ethernet.
64	MPLS Port Only Cross Connect 800 Mbps Ethernet	MPOC0800	Verizon will provide MPLS Port Only Cross Connect 800 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 800 Mbps Ethernet.
65	MPLS Port Only Cross Connect 900 Mbps Ethernet	MPOC0900	Verizon will provide MPLS Port Only Cross Connect 900 Mbps Ethernet is a Point-to-point Intra-building Cross Connect at 900 Mbps Ethernet.
66	MPLS Port Only Cross Connect 1 Gbps Ethernet	MPOC1000	Verizon will provide MPLS Port Only Cross Connect 1 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 1 Gbps Ethernet.
67	MPLS Port Only Cross Connect 1.5 Gbps Ethernet	MPOC1005	Verizon will provide MPLS Port Only Cross Connect 1.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 1.5 Gbps Ethernet.
68	MPLS Port Only Cross Connect 2 Gbps Ethernet	MPOC2000	Verizon will provide MPLS Port Only Cross Connect 2 Gbps Ethernet is an Intra-building Cross Connect at 2 Gbps Ethernet.
69	MPLS Port Only Cross Connect 2.5 Gbps Ethernet	MPOC2005	Verizon will provide MPLS Port Only Point-to-point Intra-building Cross Connect at 2.5 Gbps Ethernet.
70	MPLS Port Only Cross Connect 3 Gbps Ethernet	MPOC3000	Verizon will provide MPLS Port Only Cross Connect 3 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 3 Gbps Ethernet.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
71	MPLS Port Only Cross Connect 3.5 Gbps Ethernet	MPOC3005	Verizon will provide MPLS Port Only Cross Connect 3.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 3.5 Gbps Ethernet.
72	MPLS Port Only Cross Connect 4 Gbps Ethernet	MPOC4000	Verizon will provide MPLS Port Only Cross Connect 4 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 4 Gbps Ethernet.
73	MPLS Port Only Cross Connect 4.5 Gbps	MPOC4005	Verizon will provide MPLS Port Only Cross Connect 4.5 Gbps is a Point-to-point Intra-building Cross Connect at 4.5 Gbps Ethernet.
74	MPLS Port Only Cross Connect 5 Gbps Ethernet	MPOC5000	Verizon will provide MPLS Port Only Cross Connect 5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 5 Gbps Ethernet.
75	MPLS Port Only Cross Connect 5.5 Gbps Ethernet	MPOC5005	Verizon will provide MPLS Port Only Cross Connect 5.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 5.5 Gbps Ethernet.
76	MPLS Port Only Cross Connect 6 Gbps Ethernet	MPOC6000	Verizon will provide MPLS Port Only Cross Connect 6 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 6 Gbps Ethernet.
77	MPLS Port Only Cross Connect 6.5 Gbps Ethernet	MPOC6005	Verizon will provide MPLS Port Only Cross Connect 6.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 6.5 Gbps Ethernet.
78	MPLS Port Only Cross Connect 7 Gbps Ethernet	MPOC7000	Verizon will provide MPLS Port Only Cross Connect 7 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 7 Gbps Ethernet.
79	MPLS Port Only Cross Connect 7.5 Gbps Ethernet	MPOC7005	Verizon will provide MPLS Port Only Cross Connect 7.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 7.5 Gbps Ethernet.
80	MPLS Port Only Cross Connect 8 Gbps Ethernet	MPOC8000	Verizon will provide MPLS Port Only Cross Connect 8 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 8 Gbps Ethernet.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
81	MPLS Port Only Cross Connect 8.5 Gbps Ethernet	MPOC8005	Verizon will provide MPLS Port Only Cross Connect 8.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 8.5 Gbps Ethernet.
82	MPLS Port Only Cross Connect 9 Gbps Ethernet	MPOC9000	Verizon will provide MPLS Port Only Cross Connect 9 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 9 Gbps Ethernet.
83	MPLS Port Only Cross Connect 9.5 Gbps Ethernet	MPOC9005	Verizon will provide MPLS Port Only Cross Connect 9.5 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 9.5 Gbps Ethernet.
84	MPLS Port Only Cross Connect 10 Gbps Ethernet	MCCN0010	Verizon will provide MPLS Port Only Cross Connect 10 Gbps Ethernet is a Point-to-point Intra-building Cross Connect at 10 Gbps Ethernet.
85	MPLS Layer 2 – 64 Kbps PVC	MPVC0064	Verizon will provide MPLS Layer 2 – 64 Kbps PVC
86	MPLS Layer 2 – 128 Kbps PVC	MPVC0128	Verizon will provide MPLS Layer 2 – 128 Kbps PVC
87	MPLS Layer 2 – 256 Kbps PVC	MPVC0256	Verizon will provide MPLS Layer 2 – 256 Kbps PVC
88	MPLS Layer 2 – 384 Kbps PVC	MPVC0384	Verizon will provide MPLS Layer 2 – 384 Kbps PVC
89	MPLS Layer 2 – 512 Kbps PVC	MPVC0512	Verizon will provide MPLS Layer 2 – 512 Kbps PVC
90	MPLS Layer 2 – 768 Kbps PVC	MPVC0768	Verizon will provide MPLS Layer 2 – 768 Kbps PVC
91	MPLS Layer 2 – 1.024 Mbps PVC	MPVC1024	Verizon will provide MPLS Layer 2 – 1.024 Mbps PVC
92	MPLS Layer 2 – 3.072 Mbps PVC	MPVC3072	Verizon will provide MPLS Layer 2 – 3.072 Mbps PVC
93	MPLS Layer 2 – 4.608 Mbps PVC	MPVC4608	Verizon will provide MPLS Layer 2 – 4.608 Mbps PVC

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
94	MPLS Layer 2 – 6.144 Mbps PVC	MPVC6144	Verizon will provide MPLS Layer 2 – 6.144 Mbps PVC
95	MPLS Layer 2 – 7.680 Mbps PVC	MPVC7680	Verizon will provide MPLS Layer 2 – 7.680 Mbps PVC
96	MPLS Layer 2 – 8 Mbps PVC	MPVC0008	Verizon will provide MPLS Layer 2 – 8 Mbps PVC
97	MPLS Layer 2 – 9 Mbps PVC	MPVC0009	Verizon will provide MPLS Layer 2 – 9 Mbps PVC
98	MPLS Layer 2 – 9.216 Mbps PVC	MPVC9216	Verizon will provide MPLS Layer 2 – 9.216 Mbps PVC
99	MPLS Layer 2 – 10 Mbps PVC	MPVC0010	Verizon will provide MPLS Layer 2 – 10 Mbps PVC
100	MPLS Layer 2 – 10.752 Mbps PVC	MPVC1075	Verizon will provide MPLS Layer 2 – 10.752 Mbps PVC
101	MPLS Layer 2 – 12 Mbps PVC	MPVC0012	Verizon will provide MPLS Layer 2 – 12 Mbps PVC
102	MPLS Layer 2 – 12.288 Mbps PVC	MPVC1228	Verizon will provide MPLS Layer 2 – 12.288 Mbps PVC
103	MPLS Layer 2 – 15 Mbps PVC	MPVC0015	Verizon will provide MPLS Layer 2 – 15 Mbps PVC
104	MPLS Layer 2 – 18 Mbps PVC	MPVC0018	Verizon will provide MPLS Layer 2 – 18 Mbps PVC
105	MPLS Layer 2 – 20 Mbps PVC	MPVC0020	Verizon will provide MPLS Layer 2 – 20 Mbps PVC
106	MPLS Layer 2 – 21 Mbps PVC	MPVC0021	Verizon will provide MPLS Layer 2 – 21 Mbps PVC
107	MPLS Layer 2 – 24 Mbps PVC	MPVC0024	Verizon will provide MPLS Layer 2 – 24 Mbps PVC
108	MPLS Layer 2 – 25 Mbps PVC	MPVC0025	Verizon will provide MPLS Layer 2 – 25 Mbps PVC
109	MPLS Layer 2 – 27 Mbps PVC	MPVC0027	Verizon will provide MPLS Layer 2 – 27 Mbps PVC

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
110	MPLS Layer 2 – 30 Mbps PVC	MPVC0030	Verizon will provide MPLS Layer 2 – 30 Mbps PVC
111	MPLS Layer 2 – 33 Mbps PVC	MPVC0033	Verizon will provide MPLS Layer 2 – 33 Mbps PVC
112	MPLS Layer 2 – 35 Mbps PVC	MPVC0035	Verizon will provide MPLS Layer 2 – 35 Mbps PVC
113	MPLS Layer 2 – 36 Mbps PVC	MPVC0036	Verizon will provide MPLS Layer 2 – 36 Mbps PVC
114	MPLS Layer 2 – 40 Mbps PVC	MPVC0040	Verizon will provide MPLS Layer 2 – 40 Mbps PVC
115	MPLS Layer 2 – 44.736 Mbps PVC	MPVC4473	Verizon will provide MPLS Layer 2 – 44.736 Mbps PVC
116	MPLS Layer 2 – 155 Mbps / 155.52 PVC	MPVC0155	Verizon will provide MPLS Layer 2 – 155/155.52 Mbps PVC
117	MPLS Layer 2 – 622.08 Mbps PVC	MPVC0622	Verizon will provide MPLS Layer 2 – 622.08 Mbps PVC
118	Secure Cloud Interconnect (SCI) Non-Aggregation Usage Only Plan Service	SCNU0000	SCI Non-Aggregation Usage Only Plan Service charged on a Per GB of usage basis.
119	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Aggregation Shared Plan Service	SCSA1000	SCI 1,000 GB Aggregation Shared Plan Service.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
120	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SCAO1000	SCI 1,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 1,000 GB Plan.
121	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Non-Aggregation Plan Service	SCNA1000	SCI 1,000 GB Non-Aggregation Plan Service.
122	Secure Cloud Interconnect (SCI)1,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SCNO1000	SCI 1,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 1,000 GB Plan.
123	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Aggregation Shared Plan Service	SCSA3000	SCI 3,000 GB Aggregation Shared Plan Service.
124	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SCAO3000	SCI 3,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 3,000 GB Plan.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
125	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Non-Aggregation Plan Service	SCNA3000	SCI 3,000 GB Non-Aggregation Plan Service.
126	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SCNO3000	SCI 3,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 3,000 GB Plan.
127	Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0010	SCI 10,000 GB Aggregation Shared Plan Service.
128	Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0010	SCI 10,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 10,000 GB Plan.
129	Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Non-Aggregation Plan Service	SINA0010	SCI 10,000 GB Non-Aggregation Plan Service.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
130	Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SINO0010	SCI 10,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 10,000 GB Plan.
131	Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0030	SCI 30,000 GB Aggregation Shared Plan Service.
132	Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0030	SCI 30,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 30,000 GB Plan.
133	Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Non-Aggregation Plan Service	SINA0030	SCI 30,000 GB Non-Aggregation Plan Service.
134	Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SINO0030	SCI 30,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 30,000 GB Plan.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
135	Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0045	SCI 45,000 GB Aggregation Shared Plan Service.
136	Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0045	SCI 45,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 45,000 GB Plan.
137	Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Non-Aggregation Plan Service	SINA0045	SCI 45,000 GB Non-Aggregation Plan Service.
138	Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SINO0045	SCI 45,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 45,000 GB Plan.
139	Secure Cloud Interconnect (SCI) 100,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0100	SCI 100,000 GB Aggregation Shared Plan Service.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
140	Secure Cloud Interconnect (SCI) 100,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0100	SCI 100,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 100,000 GB Plan.
141	Secure Cloud Interconnect (SCI) 150,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0150	SCI 150,000 GB Aggregation Shared Plan Service.
142	Secure Cloud Interconnect (SCI) 150,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0150	SCI 150,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 150,000 GB Plan.
143	Secure Cloud Interconnect (SCI) 300,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0300	SCI 300,000 GB Aggregation Shared Plan.
144	Secure Cloud Interconnect (SCI) 300,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0300	SCI 300,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 300,000 GB Plan.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
145	Secure Cloud Interconnect (SCI) 500,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0500	SCI 500,000 GB Aggregation Shared Plan Service.
146	Secure Cloud Interconnect (SCI) 500,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0500	SCI 500,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 500,000 GB Plan.
147	Secure Cloud Interconnect (SCI) 700,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAS0700	SCI 700,000 GB Aggregation Shared Plan Service.
148	Secure Cloud Interconnect (SCI) 700,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SIAO0700	SCI 700,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 700,000 GB Plan.
149	Secure Cloud Interconnect (SCI) 1,000,000 Gigabyte (GB) Aggregation Shared Plan Service	SIAG0000	SCI 1,000,000 GB Aggregation Shared Plan Service.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
150	Secure Cloud Interconnect (SCI) 1,000,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SASO0000	SCI 1,000,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 1,000,000 GB Plan.
151	Secure Cloud Interconnect (SCI) Unlimited Gigabyte (GB) Non-Aggregation Plan Service	SUNL0000	Secure Cloud Interconnect (SCI) Unlimited Gigabyte (GB) Non-Aggregation Plan Service
152	TSP Emergency Provisioning and Essential Provisioning – Circuits without LEC Termination	TEWO0000	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.
153	TSP Emergency Provisioning and Essential Provisioning – Circuits with LEC Termination – Single & Additional	TEPW0000	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.
154	CA TSP Priority Restoration – Circuits without LEC Termination	TPRL0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
155	CA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	TPRT0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
156	CO TSP Priority Restoration – Circuits without LEC Termination	TPLC0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
157	CO TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	TPRC0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
158	NY TSP Priority Restoration – Circuits without LEC Termination	TPLN0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
159	NY TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	TPRN0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
160	VA TSP Priority Restoration – Circuits without LEC Termination	TPLV0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
161	VA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	TPRV0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
162	WA TSP Priority Restoration – Circuits without LEC Termination	TPLW0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
163	WA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	TPRW0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
164	CA TSP Local Access Channel Charge - Provisioning	TLAC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
165	CA TSP Local Access Channel Charge - Priority Restoration	TLAC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
166	CO TSP Local Access Channel Charge - Provisioning	TLCO0001	TSP Local Access Channel Charge are available on a per channel one time charge state.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
167	CO TSP Local Access Channel Charge - Priority Restoration	TLCO0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
168	NY TSP Local Access Channel Charge - Provisioning	TLNY0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
169	NY TSP Local Access Channel Charge - Priority Restoration	TLNY0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
170	VA TSP Local Access Channel Charge - Provisioning	TLVA0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
171	VA TSP Local Access Channel Charge - Priority Restoration	TLVA0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
172	WA TSP Local Access Channel Charge - Provisioning	TLWA0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
173	WA TSP Local Access Channel Charge - Priority Restoration	TLWA0002	TSP Local Access Channel Charge are available on a per channel one time charge state.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
174	Managed MPLS Wireless 5GB Usage Shared Extra Small Bridge	MMWS0001	Bidder's Product Description: Verizon will provide, install and monitor a wireless access bridge device to connect to an existing managed (Extra Small) router.
175	Managed MPLS Wireless 5GB Usage Shared Small Bridge	MMWS0002	Bidder's Product Description: Verizon will provide, install and monitor a wireless access bridge device to connect to an existing managed (Small) router.
176	Managed MPLS Wireless 5GB Usage Shared Medium Bridge	MMWS0003	Bidder's Product Description: Verizon will provide, install and monitor a wireless access bridge device to connect to an existing managed (Medium) router.
177	Managed MPLS Wireless 5GB Usage Shared Large Bridge	MMWS0004	Bidder's Product Description: Verizon will provide, install and monitor a wireless access bridge device to connect to an existing managed (Large) router.
178	Managed MPLS Wireless 5GB Usage Shared Extra Small Card	MMWC0001	Bidder's Product Description: Verizon will provide, install and monitor a wireless access card for an existing managed (Extra Small) router.
179	Managed MPLS Wireless 5GB Usage Shared Small Card	MMWC0002	Bidder's Product Description: Verizon will provide, install and monitor a wireless access card for an existing managed (Small) router.
180	Managed MPLS Wireless 5GB Usage Shared Medium Card	MMWC0003	Bidder's Product Description: Verizon will provide, install and monitor a wireless access card for an existing managed (Medium) router.
181	Managed MPLS Wireless 5GB Usage Shared Large Card	MMWC0004	Bidder's Product Description: Verizon will provide, install and monitor a wireless access card for an existing managed (Large) router.
182	Managed MPLS Wireless Overage	MMWO0000	Bidder's Product Description: Usage is measured in GB Usage over the subscribed allotment. This is measured and charged on a per GB basis.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
183	Managed MPLS Wireless - PWG Port Setup	MMWP0000	Bidder's Product Description: Managed MPLS Wireless – PWG Port Setup is for the Network to Network Interface (NNI) between the Verizon Wireless network and the Verizon MPLS. It provides: □ PWG Port Setup Extension to MPLS Wireless Access □ Traffic flows over the MPLS Wireless Gateway (PWG). This is the Network to Network Interface (NNI) between the Verizon Wireless network and the Verizon MPLS network and is ordered separately. Sized per Port.
184	Managed MPLS Wireless – Static IP Address Set Up&Assignment	MMWS0000	Bidder's Product Description: Managed MPLS Wireless – Static IP Address Set Up & Assignment is the set up and assignment of Static IP Addressing on the Verizon MPLS Network. It provides: □ Static IP Addressing Extension to MPLS Wireless Access □ Set Up and Assignment of Static IP Addressing on the Verizon Private Network (required for MPLS - Wireless Access – Managed)
185	Managed MPLS Wireless – DMNR	MMWD0000	Bidder's Product Description: Managed MPLS Wireless Access - Dynamic Mobile Network Routing (DMNR) with extension to MPLS Wireless Access. It provides: □ Dynamic Mobile Network Routing (DMNR) Extension to MPLS Wireless Access □ DMNR □ Allows the use of a dynamic routing protocol - ideal to leverage the any-to-any nature of MPLS used in Private MPLS network

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
186	VSAT Site Pre-Qualification	VSPR0000	VSAT Site Pre-Qualification conducted by Verizon field personnel. This exercise is required to provide a valid quote to scope the VSAT Terminal Antenna and Antenna Mounts and system that will vary based on the site location environment (i.e. size of antenna, high-wind and de-Ice options). This effort includes, but not limited to, satellite line of site confirmation, outdoor antenna placement, mount type selection, Inter Facility Link (IFL) cable placement, cable run length requirements between outdoor equipment and the indoor satellite router. This activity is required before a valid quote is assembled for any location.
187	Site Ready Installation Standard – .98 Meter Antenna 3w Kit	SRIS0003	A fixed VSAT system with a .98m antenna, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 256Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
188	Site Ready Installation Standard – .98 Meter Antenna 6w Kit	SRIS0006	A fixed VSAT system with a .98m antenna, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 256Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
189	Site Ready Installation Standard – .98 Meter Deice Antenna 3w Kit	SRID0003	A fixed VSAT system with a .98m antenna with automatic deice system, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 256Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
190	Site Ready Installation Standard – .98 Meter Deice Antenna 6w Kit	SRID0006	A fixed VSAT system with a .98m antenna with automatic deice system, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 256Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
191	Site Ready Installation Standard – 1.2 Meter Antenna 3w Kit	SRAN0003	A fixed VSAT system with a 1.2m antenna, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
192	Site Ready Installation Standard – 1.2 Meter Antenna 6w Kit	SRAN0006	A fixed VSAT system with a 1.2m antenna, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
193	Site Ready Installation Standard – 1.2 Meter Antenna 8w Kit	SRAN0008	A fixed VSAT system with a 1.2m antenna, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
194	Site Ready Installation High-Wind – 1.2 Meter Antenna 3w Kit	SRIH0003	A fixed VSAT system with a 1.2m High-Wind antenna, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
195	Site Ready Installation High-Wind – 1.2 Meter Antenna 6w Kit	SRIH0006	A fixed VSAT system with a 1.2m High-Wind antenna, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
196	Site Ready Installation High-Wind – 1.2 Meter Antenna 8w Kit	SRIH0008	A fixed VSAT system with a 1.2m High-Wind antenna, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
197	Site Ready Installation Standard – 1.2 Meter Deice Antenna 3w Kit	STRI0003	A fixed VSAT system with a 1.2m antenna with automatic deice system, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
198	Site Ready Installation Standard – 1.2 Meter Deice Antenna 6w Kit	STRI0006	A fixed VSAT system with a 1.2m antenna with automatic deice system, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
199	Site Ready Installation Standard – 1.2 Meter Deice Antenna 8w Kit	STRI0008	A fixed VSAT system with a 1.2m antenna with automatic deice system, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
200	Site Ready Installation High-Wind – 1.2 Meter Deice Antenna 3w Kit	SRHD0003	A fixed VSAT system with a 1.2m High-Wind antenna with automatic deice system, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
201	Site Ready Installation High-Wind – 1.2 Meter Deice Antenna 6w Kit	SRHD0006	A fixed VSAT system with a 1.2m High-Wind antenna with automatic deice system, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
202	Site Ready Installation High-Wind – 1.2 Meter Deice Antenna 8w Kit	SRHD0008	A fixed VSAT system with a 1.2m High-Wind antenna with automatic deice system, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
203	Site Ready Installation Standard – 1.8 Meter Antenna 3w Kit	SRAI0003	A fixed VSAT system with a 1.8m antenna, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
204	Site Ready Installation Standard – 1.8 Meter Antenna 6w Kit	SRAI0006	A fixed VSAT system with a 1.8m antenna, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
205	Site Ready Installation Standard – 1.8 Meter Antenna 8w Kit	SRIS0008	A fixed VSAT system with a 1.8m antenna, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
206	Site Ready Installation Standard – 1.8 Meter Antenna 16w Kit	SRIS0016	A fixed VSAT system with a 1.8m antenna, 16 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
207	Site Ready Installation High-Wind – 1.8 Meter Antenna 3w Kit	SRHW0003	A fixed VSAT system with a 1.8m High-Wind antenna, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
208	Site Ready Installation High-Wind – 1.8 Meter Antenna 6w Kit	SRHW0006	A fixed VSAT system with a 1.8m High-Wind antenna, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
209	Site Ready Installation High-Wind – 1.8 Meter Antenna 8w Kit	SRHW0008	A fixed VSAT system with a 1.8m High-Wind antenna, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
210	Site Ready Installation High-Wind – 1.8 Meter Antenna 16w Kit	SRHW0016	A fixed VSAT system with a 1.8m High-Wind antenna, 16 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
211	Site Ready Installation Standard – 1.8 Meter Deice Antenna 3w Kit	SRSD0003	A fixed VSAT system with a 1.8m antenna with automatic deice system, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
212	Site Ready Installation Standard – 1.8 Meter Deice Antenna 6w Kit	SRSD0006	A fixed VSAT system with a 1.8m antenna with automatic deice system, 36Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
213	Site Ready Installation Standard – 1.8 Meter Deice Antenna 8w Kit	SRSD0008	A fixed VSAT system with a 1.8m antenna with automatic deice system, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
214	Site Ready Installation Standard – 1.8 Meter Deice Antenna 16w Kit	SRSD0016	A fixed VSAT system with a 1.8m antenna with automatic deice system, 16 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
215	Site Ready Installation High-Wind – 1.8 Meter Deice Antenna 3w Kit	SHWD0003	A fixed VSAT system with a 1.8m High-Wind antenna with automatic deice system, 3 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 512Kbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
216	Site Ready Installation High-Wind – 1.8 Meter Deice Antenna 6w Kit	SHWD0006	A fixed VSAT system with a 1.8m High-Wind antenna with automatic deice system, 6 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 1.5Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
217	Site Ready Installation High-Wind – 1.8 Meter Deice Antenna 8w Kit	SHWD0008	A fixed VSAT system with a 1.8m High-Wind antenna with automatic deice system, 8 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.
218	Site Ready Installation High-Wind– 1.8 Meter Deice Antenna 16w Kit	SHWD0016	A fixed VSAT system with a 1.8m High-Wind antenna with automatic deice system, 16 Watt Block Up Converter (BUC), Spare BUC, Low Noise Block Converter (LNB), Spare LNB, 250 Feet Dual RG6 Inter Facility Link (IFL) Cable. This system supports transmission speeds between 32Kbps to 2Mbps that connects to the Wireline service (MPLS Network). VSAT Antenna Mount, Router/Modem, Bandwidth and Site Pre-Qualification is ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
219	Mount, Non-Penetrating, for 1.2m Antenna = 37.5 sq.ft.	MNPA0001	VSAT Antenna Mount includes a Non-Penetrating, 6.25' x 6.00' = 37.5 sq.ft. w/Pad's for 1.2m antenna w/2.88" O.D. x 36" Mast (2 - Ballast Trays/ 16 Blocks). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
220	Mount, Non-Penetrating, for 1.2m Antenna = 54.2 sq.ft.	MNPA0002	VSAT Antenna Mount includes a Non-Penetrating, 6.25' x 8.67' = 54.2 sq.ft. w/Pad's for 1.2m antenna w/2.88" O.D. x 36" Mast (4 - Ballast Trays/ 32 Blocks). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
221	Mount, Non-Penetrating, for 1.2m High-Wind Antenna = 118.8 sq.ft.	MNPA0003	VSAT Antenna Mount includes a Non-Penetrating, 10.9' x 10.9' = 118.8 sq.ft. w/Pad's for 1.2m High-Wind antenna w/2.88" O.D. x 36" Mast (1 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
222	Mount, Non-Penetrating, for 1.2m High-Wind Antenna = 182.3 sq.ft.	MNPA0004	VSAT Antenna Mount includes a Non-Penetrating, 13.5' x 13.5' = 182.3 sq.ft. w/Pad's for 1.2m High-Wind antenna w/2.88" O.D. x 36" Mast (2 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
223	Mount, Non-Penetrating, for 1.8m Antenna = 118.8 sq.ft.	MNPA0005	VSAT Antenna Mount includes a Non-Penetrating, 10.9' x 10.9' = 118.8 sq.ft. w/Pad's for 1.8m antenna w/4.00" O.D. x 36" Mast (1 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
224	Mount, Non-Penetrating, for 1.8m Antenna = 182.3 sq.ft.	MNPA0006	VSAT Antenna Mount includes a Non-Penetrating, 13.5' x 13.5' = 182.3 sq.ft. w/Pad's for 1.8m antenna w/4.00" O.D. x 36" Mast (2 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
225	Mount, Non-Penetrating, for 1.8m High-Wind Antenna = 244.61 sq.ft.	MNPA0007	VSAT Antenna Mount includes a Non-Penetrating, 15.64' x 15.64' = 244.61 sq.ft. w/Pad's for 1.8m High-Wind antenna w/6.62" O.D. x 36" Mast (3 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
226	Mount, Non-Penetrating, for 1.8m High-Wind Antenna = 313.3 sq.ft.	MNPA0008	VSAT Antenna Mount includes a Non-Penetrating, 17.7' x 17.7' = 313.3 sq.ft. w/Pad's for 1.8m High-Wind antenna w/6.62" O.D. x 36" Mast (4 - Ballast Tray per Leg). VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
227	Mount, Non-Penetrating Ridgemount, for 1.2m Antenna = 53.7 sq.ft.	MNPA0009	VSAT Antenna Mount includes a Non-Penetrating Ridgemount, 6.4' x 8.4' = 53.7 sq.ft. w/Pad's for 1.2m antenna w/2.88" O.D. x 36" Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
228	Mount, Non-Penetrating Ridgemount, for 1.2m Antenna = 107 sq.ft.	MNPA0010	VSAT Antenna Mount includes a Non-Penetrating Ridgemount, 10' x 10.7' = 107 sq.ft. w/Pad's for 1.2m antenna w/2.88" O.D. x 36" Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
229	Mount, Non-Penetrating Ridgemount, for 1.8m Antenna = 107 sq.ft.	MNPA0011	VSAT Antenna Mount includes a Non-Penetrating Ridgemount, 10' x 10.7' = 107 sq.ft. w/Pad's for 1.8m antenna w/4.00" O.D. x 36" Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
230	Mount, Non-Penetrating Ridgemount, for 1.8m Antenna = 170.2 sq.ft.	MNPA0012	VSAT Antenna Mount includes a Non-Penetrating Ridgemount, 13.3' x 12.8' = 170.2 sq.ft. w/Pad's for 1.8m antenna w/4.00" O.D. x 36" Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
231	Mount, Wall Mount, for 1.2m antenna	MNWA0000	VSAT Antenna Mount includes a Wall Mount for 1.2m antenna w/2.88" O.D. Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
232	Mount, Universal Beam Mount for 1.2m antenna	MNBM0000	VSAT Antenna Mount includes a Universal I-Beam Mount for 1.2m antenna w/2.88" O.D. x 36" Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
233	Mount, Wall Mount w/23" offset from wall for 1.8m antenna	MNWM0023	VSAT Antenna Mount includes a Wall Mount for 1.8m antenna w/4.00" O.D. Mast with 23" Offset from the wall. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
234	Mount, Wall Mount w/36" offset from wall for 1.8m antenna	MNWM0036	Antenna Mount includes a Wall Mount for 1.8m antenna w/4.00" O.D. Mast with 36" Offset from the wall. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
235	Mount, Wall Mount w/48" offset from wall for 1.8m antenna	MNWM0048	VSAT Antenna Mount includes a Wall Mount for 1.8m antenna w/4.00" O.D. Mast with 48" Offset from the wall. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
236	Mount, Wall Mount w/60" offset from wall for 1.8m antenna	MNWM0060	VSAT Antenna Mount includes a Wall Mount for 1.8m antenna w/4.00" O.D. Mast with 60" Offset from the wall. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
237	Mount, Ground Pole, for 1.2m Antenna	MGRP0001	VSAT Antenna Mount includes a Ground Pole Mount for 1.2m antenna w/2.88" O.D. x 8' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
238	Mount, Ground Pole, for 1.8m Antenna	MGRP0002	VSAT Antenna Mount includes a Ground Pole Mount for 1.8m antenna w/4.00" O.D. x 9' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
239	Mount, Ground Pole, for 1.8m High-Wind Antenna	MGRP0003	VSAT Antenna Mount includes a Ground Pole Mount for 1.8m High-Wind antenna w/6.62" O.D. x 10.5' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
240	Mount, Ground Pole Stabilizer w/23" Offset from wall	MGRP0004	VSAT Antenna Mount includes a Ground Pole Mount Stabilizer with 23" Offset from the wall. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
241	Mount, Pedestal Mount for 1.2m Antenna	MNPM0001	VSAT Antenna Mount includes a Pedestal Mount w/mounting hardware for 1.2m antenna w/2.88" O.D. (S40) x 3' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
242	Mount, Pedestal Mount for 1.8m Antenna	MNPM0002	VSAT Antenna Mount includes a Pedestal Mount w/mounting hardware for 1.8m antenna w/4.00" O.D. (S40) x 4' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
243	Mount, Pedestal Mount for 1.8m High-Wind Antenna	MNPH0000	VSAT Antenna Mount includes a Pedestal Mount w/mounting hardware for 1.8m High-Wind antenna w/6.62" O.D. (S80) x 6' Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
244	Mount, Mast Adapter, Converts from 4.00" to 2.88" O.D. Mast	MNMA0001	VSAT Antenna Mount includes a Mast Adapter to convert a 4.00" O.D. Mast Mount down to a 2.88" O.D. Mast for 1.2m antenna w/2.88" O.D. Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
245	Mount, Mast Adapter, Converts from 6.62" to 2.88" O.D. Mast	MNMA0002	VSAT Antenna Mount includes a Mast Adapter to convert a 6.62" O.D. Mast Mount down to a 2.88" O.D. Mast for 1.2m antenna w/2.88" O.D. Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
246	Mount, Mast Adapter, Converts from 6.62" to 4.00" O.D. Mast	MNMA0003	VSAT Antenna Mount includes a Mast Adapter to convert a 6.62" O.D. Mast Mount down to a 4.00" O.D. Mast for 1.8m antenna w/4.00" O.D. Mast. VSAT Terminal Antenna, Router/Modem and Bandwidth and Site Pre-Qualification are ordered separately.
247	.98 Meter and 1.2 Meter VSAT Retermination consist of De-Install, Move, Re-Install within 50 miles of original location) Within 50 Miles of Original Location	MVRT0000	This includes the de-install, move and re-installation of .98 or 1.2m fixed antenna system both the outdoor and indoor satellite components within 50 miles of original location. The move includes shipping and handling of the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
248	.98 Meter and 1.2 Meter VSAT De-installation Only Greater then 50 miles of Original Location	MVRD0000	This includes the de-installation of .98 or 1.2m fixed antenna system both the outdoor and indoor satellite components. The de-installation includes both the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of: satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units. Customer is responsible for shipping and/or storage of this equipment.
249	.98 Meter and 1.2 Meter VSAT Re-installation Only Greater then 50 miles of Original Location	MVRI0000	This includes the re-installation of .98 or 1.2m fixed antenna system both the outdoor and indoor satellite components. The re-installation includes both the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of: satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units. Customer is responsible to provide equipment on-site prior to re-installation.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
250	1.8 Meter VSAT VSAT with deice: Retermination consist of De-Install, Move, Re-Install within 50 miles of original location) Within 50 Miles of Original Location	MVSD0001	This includes the de-install, move and re-installation of 1.8m fixed antenna system with deice both the outdoor and indoor satellite components within 50 miles of original location. The move includes shipping and handling the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of: satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units.
251	1.8 Meter VSAT VSAT with deice: Retermination consist of De-Install within 50 miles of original location) Within 50 Miles of Original Location	MVSD0002	This includes the de-installation of 1.8m fixed antenna system both the outdoor and indoor satellite components. The de-installation includes both the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of: satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units. Customer is responsible for shipping and/or storage of this equipment.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
252	1.8 Meter VSAT Re-installation Greater then 50 Miles of Original Location	MVRN0000	This includes the re-installation of 1.8m fixed antenna system both the outdoor and indoor satellite components. The re-installation includes both the outdoor and indoor satellite systems. This includes the following items relevant to the outdoor unit: antenna main reflector, antenna mount, and all RF "radio frequency" components: Block up Converter and Low noise block converter. The indoor unit consists of: satellite modem/router. In addition, the Inter Facility Link (IFL) cables that connects the outdoor and indoor units. Customer is responsible to provide equipment on-site prior to re-installation.
253	Moving VSAT Antenna on the Same Roof. (.98, 1.2, 1.8 and 2.4m)	MVSA0000	This charge is for moving .98, 1.2, 1.8 or 2.4m satellite outdoor antenna assembly from one location to another on the same roof. This would include moving of the standard non-penetrating antenna system, re-pointing of the antenna and moving existing cables (additional cable can be provided at additional cost). This excludes moving the customer provided AC outlet used for the electric deice.
254	VSAT System Antenna Repoint	VSSA0000	This charge is for Repointing a .98, 1.2, 1.8 or 2.4m satellite outdoor antenna assembly from one satellite to another based on customer requested network move/change. This would include testing and recommissioning the system onto the new satellite network.
255	VSAT Install Canceling Fee 48 Hour Notice	VSIF0000	Cancelling fee for install or Maintenance of service. Remote site cancellation policy is 48 hours (2 Business Day) in advance of scheduled installation.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
256	VSAT Field Service Rep Installation labor to complete other on-site work	VFSI0000	This field service rep is certified on complete installation of VSAT systems. Installation labor fee to complete other On-Site work such as external customer provided router and/or other customer provided protocol translation equipment. This hourly rate also applies to additional installations for those occasions when a VSAT Field Service Rep is required after the standard VSAT Terminal CPE installation for the truck roll (drive time).
257	VSAT Change Management Fee	VSCM0000	This is a Service Fee to upgrade or downgrade satellite link bandwidth (within antenna capability).
258	Dual RG6 PVC Inter Facility Link (IFL) Cable	DRGP0001	Dual RG6 PVC IFL Cable. Standard VSAT CPE Options service includes cable and installation up to 250 feet. This price per foot includes labor, connectors, tie-wraps and cable at time of installation of the VSAT Terminal CPE. This item is only for VSAT installation to support this service.
259	Dual RG6 Plenum Inter Facility Link (IFL) Cable	DRGP0002	Dual RG6 Plenum IFL Cable. This price per foot includes labor, connectors, tie-wraps and cable at time of installation of the VSAT Terminal CPE.
260	Dual RG11 PVC Inter Facility Link (IFL) Cable	DRGP0003	Dual RG11 PVC (IFL) Cable. . This price per foot includes labor, connectors, tie-wraps and cable at time of installation of the VSAT Terminal CPE.
261	Dual RG11 Plenum PVC Inter Facility Link (IFL) Cable	DRGP0004	Dual RG11 Plenum PVC IFL Cable. This price per foot includes labor, connectors, tie-wraps and cable at time of installation of the VSAT Terminal CPE.
262	PVC Conduit – 1.5 inch. Dia	PVCC0000	This is for PVC conduit - 1.5 inch diameter for external to internal unit.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
263	iDirect X1 Indoor Satellite Router w/3-Watt BUC & LNB Spares Kit	IDIR0001	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X1 Satellite Router, 3-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
264	iDirect X1 Outdoor Satellite Router w/3-Watt BUC & LNB Spares Kit	IDIO0003	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X1 Outdoor Satellite Router, 3-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
265	iDirect X7 Indoor Satellite Router w/3-Watt BUC & LNB Spares Kit	IDIR0003	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X7 Satellite Router, 3-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
266	iDirect X7 Indoor Satellite Router w/6-Watt BUC & LNB Spares Kit	IDIR0006	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X7 Satellite Router, 6-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
267	iDirect X7 Indoor Satellite Router w/8-Watt BUC & LNB Spares Kit	IDIR0008	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X7 Satellite Router, 8-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
268	iDirect X7 Indoor Satellite Router w/16-Watt BUC & LNB Spares Kit	IDIR0016	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of an iDirect X7 Satellite Router, 16-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
269	Newtec 3310 Indoor Satellite Router w/16-Watt BUC & LNB Spares Kit	TISR3310	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of a Newtec 3310 Satellite Router, 16-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
270	Newtec 5010 Indoor Satellite Router w/16-Watt BUC & LNB Spares Kit	TISR5010	Replacement Spare's Kit to replace Verizon supplied spares that end up being lost, stolen or damaged while in the customer's possession. The kit consists of a Newtec 5010 Satellite Router, 16-Watt Ku-Band Block Up Converter (BUC), and Low Noise Block Converter (LNB).
271	Snow Shield (Passive), for 1.2m Antenna, Full Reflector cover w/ PTEF Coating and Feed Cover	SHLP0001	Walton Passive Gore-Tex® Snow Shield for the 1.2-meter round single reflector optics antenna consisting of reflector cover made from UV Stable PTFE Coated Gore-Tex® radome material with ports to add heater option at a later date. This includes installation of the Snow Shield at time of installation of the VSAT Terminal CPE. Feed Horn Cover also recommended.
272	Snow Shield (Passive), for 1.8m Antenna, Full Reflector cover w/ PTEF Coating and Feed Cover	SHLP0002	Walton Passive Gore-Tex® Snow Shield for the 1.8-meter round single reflector optics antenna consisting of reflector cover made from UV Stable PTFE Coated Gore-Tex® radome material with ports to add heater option at a later date. This includes installation of the Snow Shield at time of installation of the VSAT Terminal CPE. Feed Horn Cover also recommended.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
273	Training for Quick / Auto Deploy and VSAT Terminal CPE System	TRNV0000	One day on-site customer operational training fee for Quick / Auto Deploy and VSAT Terminal CPE Systems at time of service installation.
274	Router Bundle 11 - iDirect X1 Satellite Router, Spare iDirect X1 Satellite Router, Proactive Mgmt., 24x7 Maintenance and Installation	BIDR0011	This is the Router/Modem bundle assembly that works in conjunction with the VSAT Terminal Antenna, VSAT Antenna Mount, and Bandwidth Line Rate Data Channel. This bundle includes the iDirect X1 Satellite Router, Router Spare, Proactive InBand Management to the iDirect Router, Installation of the Router and 24x7 Same Day Maintenance (must be within 150 miles of the nearest service city otherwise next day maintenance will apply).
275	Router Bundle 12 - iDirect X1 NEMA Satellite Router, Spare iDirect X1 NEMA Satellite Router, Proactive Mgmt., 24x7 Maintenance and Installation	BIDR0012	This is the Router/Modem bundle assembly that works in conjunction with the VSAT Terminal Antenna, VSAT Antenna Mount, and Bandwidth Line Rate Data Channel. This bundle includes the iDirect X1 National Electrical Manufacturers Association (NEMA) 6 Outdoor rated Satellite Router, Router Spare, Proactive InBand Management to the iDirect Router, Installation of the Router and 24x7 Same Day Maintenance (must be within 150 miles of the nearest service city otherwise next day maintenance will apply).
276	Router Bundle 14 - iDirect X7 Satellite Router, Spare iDirect X7 Satellite Router, Proactive Mgmt., 24x7 Maintenance and Installation	BIDR0014	This is the Router/Modem bundle assembly that works in conjunction with the VSAT Terminal Antenna, VSAT Antenna Mount, and Bandwidth Line Rate Data Channel. This bundle includes the iDirect X7 Satellite Router, Router Spare, Proactive InBand Management to the iDirect Router, Installation of the Router and 24x7 Same Day Maintenance (must be within 150 miles of the nearest service city otherwise next day maintenance will apply).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
277	Router Bundle 16 - Required with Service - Newtec 3310 Satellite Router, Spare Newtec 3310 Satellite Router, Proactive Mgmt., 24x7 Same Day Maintenance (when available), and Installation	BIDR0016	This is the Router/Modem bundle assembly that works in conjunction with the VSAT Terminal Antenna, VSAT Antenna Mount, and Bandwidth Line Rate Data Channel. This bundle includes the Newtec 3310 Satellite Router, Router Spare Newtec 3310 Router, Proactive InBand Management to the iDirect Router, Installation of the Router and 24x7 Same Day Maintenance (must be within 150 miles of the nearest service city otherwise next day maintenance will apply).
278	Router Bundle 17 - Required with Service - Newtec 5010 Satellite Router, Spare Newtec 5010 Satellite Router, Proactive Mgmt., 24x7 Same Day Maintenance (when available), and Installation	BIRD0017	This is the Router/Modem bundle assembly that works in conjunction with the VSAT Terminal Antenna, VSAT Antenna Mount, and Bandwidth Line Rate Data Channel. This bundle includes the Newtec 5010 Satellite Router, Router Spare Newtec 5010 Router, Proactive InBand Management to the iDirect Router, Installation of the Router and 24x7 Same Day Maintenance (must be within 150 miles of the nearest service city otherwise next day maintenance will apply).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
279	Quick Deploy 1.2 Meter Antenna, 16 watt BUC, LNB and iDirect X7	DPLA0001	Quick Deploy VSAT system with a 1.2m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, 100 foot Dual RG6 Inter Facility Link (IFL) Cable, reusable transit cases and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 4Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is required for Quick Deploy.
280	Quick Deploy 1.2 Meter Antenna, 16 watt BUC, LNB, Newtec 5010	DPLA0002	Quick Deploy VSAT system with a 1.2m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, 100 foot Dual RG6 Inter Facility Link (IFL) Cable, reusable transit cases and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 4Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is required for Quick Deploy.
281	Quick Deploy 1.8 Meter Antenna, 16 watt BUC, LNB and iDirect X7	DPLA0003	Quick Deploy VSAT system with a 1.8m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, 100 foot Dual RG6 Inter Facility Link (IFL) Cable, reusable transit cases and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 8Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is required for Quick Deploy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
282	Quick Deploy 1.8 Meter Antenna, 16 watt BUC, LNB, Newtec 5010	DPLA0004	Quick Deploy VSAT system with a 1.8m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), Newtec 5010 Satellite Router, 100 foot Dual RG6 Inter Facility Link (IFL) Cable, reusable transit cases and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 8Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is required for Quick Deploy.
283	Auto Pointing (Vehicle Mount Ready) 1.2 Meter 1-Piece Antenna, 16 watt BUC, LNB and iDirect X7	APNV0001	Auto-Pointing VSAT system that is vehicle/trailer mountable ready with a 1.2m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, 30 foot Dual RG6 Inter Facility Link (IFL) Cable and antenna controller cable, and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 4Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is recommended for Auto-Pointing systems.
284	Auto Pointing (Vehicle Mount Ready) 1.2 Meter 1-Piece Antenna, 16 watt BUC, LNB, Newtec 5010	APNV0002	Auto-Pointing VSAT system that is vehicle/trailer mountable ready with a 1.2m antenna, 16 Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, 30 foot Dual RG6 Inter Facility Link (IFL) Cable and antenna controller cable, and Next Business Day Maintenance. This system supports transmission speeds between 32Kbps to 4Mbps that connects to the Wireline service (MPLS Network). Satellite Bandwidth and an Electronics spares kit are ordered separately. Training is recommended for Auto-Pointing systems.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
285	Auto Pointing (Rugged) 1.2 Meter 4-Piece Antenna, 16 watt BUC, LNB and iDirect X7	APNR0001	New Auto-Pointing Antenna system for installation on customer provided Trailer or Mobile Command Vehicle (NO INSTALL)
286	Auto Pointing (Rugged) 1.2 Meter 4-Piece Antenna, 16 watt BUC, LNB, Newtec 5010	APNR0002	New Auto-Pointing Antenna system for installation on customer provided Trailer or Mobile Command Vehicle (NO INSTALL)
287	QD/AP 16-Watt Spare's Kit with Transit Case	QDSP0000	Quick-Deploy / Auto-Pointing transportable Electronics Spares Kit. The Kit includes 16-Watt Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect X7 Satellite Router, Power Conditioner and Transit Case. One Spares Kit is recommended per system but at a minimum one (1) is "Required" to be available and onsite prior to maintenance dispatch.
288	QD/AP 16-Watt Newtec 5010 Spare's Kit with Transit Case	QDNS0000	Spare's Kit for use with Newtec 5010 Equipped Quick Deploy and Auto-Pointing Systems.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
289	Emergency Response Satellite Communication System Option 1 - Bumper Pull Trailer (Daily Use Rate)	ESTC0001	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a bumper pull trailer, ranging from single axle ~8ft trailers to larger ~20ft trailers with multiple workstations with roof mounted 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router, 2Mbps transmit x 2Mbps receive or higher Private MPLS Satellite Data Connectivity, and Generator with fuel and transportation of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system and generator operation and fueling. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
290	Emergency Response Satellite Communication System Option 1 - Bumper Pull Trailer (Weekly Use Rate)	ESTC0002	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a bumper pull trailer, ranging from single axle ~8ft trailers to larger ~20ft trailers with multiple workstations with VoIP Phones and data connections and a roof mounted 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router, 2Mbps transmit x 2Mbps receive or higher Private MPLS Satellite Data Connectivity, and Generator with fuel and transportation of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system and generator operation and fueling. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
291	Emergency Response Satellite Communication System Option 2 - Gooseneck / Semi Trailer or RV (Daily Use Rate)	ESTC0003	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a larger dual axle gooseneck/semi-trailer or RV style Command center with a minimum of 4 workstations with VoIP Phones and data connections and a roof mounted 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router, 2Mbps x 2Mbps or higher Private IP MPLS Satellite Data Connectivity, and Generator with fuel and transportation of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system and generator operation and fueling. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate. CALNET Form 20 is required in advanced to gather network connectivity requirements to connect to the necessary MPLS sites and deployment environment to qualify the correct asset. Depart within a 24 Hour period based on request.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
292	Emergency Response Satellite Communication System Option 2 - Gooseneck / Semi Trailer or RV (Weekly Use Rate)	ESTC0004	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a larger dual axle gooseneck/semi-trailer or RV style Command center with a minimum of 4 workstations with VoIP Phones and data connections and a roof mounted 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router, 2Mbps x 2Mbps or higher Private IP MPLS Satellite Data Connectivity, and Generator with fuel and transportation of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system and generator operation and fueling. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate.
293	Emergency Response Satellite Communication System Option 3 - Case Based Auto-Pointing System (Daily Use Rate)	ESTC0005	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a reusable case based 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router and 2Mbps x 2Mbps or higher Private IP MPLS Satellite Data Connectivity and shipment of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
294	Emergency Response Satellite Communication System Option 3 - Case Based Auto-Pointing System (Weekly Use Rate)	ESTC0006	Use of Verizon owned Emergency Response Satellite Communications System consisting of at a minimum a reusable case based 1.2m Antenna or larger Auto-Pointing Satellite system with an 8-Watt or Larger Block Up Converter (BUC), Low Noise Block Converter (LNB), iDirect Satellite Router and 2Mbps x 2Mbps or higher Private IP MPLS Satellite Data Connectivity and shipment of the asset to/from the customers requested location with onsite / local area support staff available for support during the deployment period to maintain communications system. Use of the system is based asset availability at time of request. Day of travel and return will be a part of the daily rate.
295	64 Kbps / 64 Kbps	STRR0001	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
296	128 Kbps / 128 Kbps	STRR0002	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
297	256 Kbps / 256 Kbps	STRR0003	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
298	512 Kbps / 512 Kbps	STRR0004	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
299	512 Kbps / 1024 Kbps	STRR0005	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
300	512kb Kbps / 1.5 Mbps	STRR0006	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
301	512 Kbps / 2048 Kbps	STRR0007	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
302	512 Kbps / 3 Mbps	STRR0008	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
303	1.5 Mbps / 1.5 Mbps	STRR0009	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
304	1.5 Mbps / 3 Mbps	STRR0010	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
305	1.5 Mbps / 6 Mbps	STRR0011	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
306	1.5Mbps / 10Mbps	STRR0012	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
307	3 Mbps / 3 Mbps	STRR0013	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
308	3 Mbps / 6 Mbps	STRR0014	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
309	3 Mbps / 10 Mbps	STRR0015	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
310	3 Mbps / 15 Mbps	STRR0016	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
311	4 Mbps / 4 Mbps	STRR0017	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
312	4 Mbps / 8 Mbps	STRR0018	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
313	4 Mbps / 10 Mbps	STRR0019	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
314	4 Mbps / 15 Mbps	STRR0020	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
315	4 Mbps / 16 Mbps	STRR0021	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
316	5 Mbps / 5 Mbps	VNSD0001	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
317	5 Mbps / 10 Mbps	VNSD0002	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
318	5 Mbps / 15 Mbps	VNSD0003	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
319	5 Mbps / 20 Mbps	VNSD0004	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
320	10 Mbps / 10 Mbps	VNSD0005	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
321	10 Mbps / 20 Mbps	VNSD0006	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
322	10 Mbps / 30 Mbps	VNSD0007	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
323	10 Mbps / 40 Mbps	VNSD0008	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
324	20 Mbps / 20 Mbps	VNSD0009	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
325	20 Mbps / 30 Mbps	VNSD0010	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
326	20 Mbps / 40 Mbps	VNSD0011	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
327	20 Mbps / 50 Mbps	VNSD0012	This service includes VSAT systems transmit and receive bandwidth for 1 end point. Reactive network management includes notification of outage, trouble ticket generation and escalations.
328	64 Kbps / 64 Kbps	VBKB0001	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
329	128 Kbps / 128 Kbps	VBKB0002	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
330	256 Kbps / 256 Kbps	VBKB0003	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
331	512 Kbps / 512 Kbps	VBKB0004	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
332	512 Kbps / 1024 Kbps	VBKB0005	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
333	512 Kbps / 2.5 Mbps	VBKB0006	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
334	512 Kbps / 2048 Kbps	VBKB0007	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
335	512 Kbps / 3 Mbps	VBKB0008	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
336	1.5 Mbps / 1.5 Mbps	VBKB0009	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
337	1.5 Mbps / 3 Mbps	VBKB0010	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
338	1.5 Mbps / 6 Mbps	VBKB0011	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
339	1.5 Mbps / 10 Mbps	VBKB0012	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
340	3 Mbps / 3 Mbps	VBKB0013	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
341	3 Mbps / 6 Mbps	VBKB0014	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
342	3 Mbps / 10 Mbps	VBKB0015	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
343	3 Mbps / 15 Mbps	VBKB0016	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
344	4 Mbps / 4 Mbps	VBKB0017	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
345	4 Mbps / 8 Mbps	VBKB0018	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
346	4 Mbps / 10 Mbps	VBKB0019	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
347	4 Mbps / 15 Mbps	VBKB0020	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
348	4 Mbps / 16 Mbps	VBKB0021	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
349	5 Mbps / 5 Mbps	VBKS0001	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
350	5 Mbps / 10 Mbps	VBKS0002	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
351	5 Mbps / 15 Mbps	VBKS0003	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
352	5 Mbps / 20 Mbps	VBKS0004	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
353	10 Mbps / 10 Mbps	VBKS0005	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
354	10 Mbps / 20 Mbps	VBKS0006	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
355	10 Mbps / 30 Mbps	VBKS0007	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
356	10 Mbps / 40 Mbps	VBKS0008	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
357	20 Mbps / 20 Mbps	VBKS0009	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
358	20 Mbps / 30 Mbps	VBKS0010	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
359	20 Mbps / 40 Mbps	VBKS0011	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
360	20 Mbps / 50 Mbps	VBKS0012	Backup bandwidth is based on 10% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of bandwidth available to each of the two sites.
361	64 Kbps / 64 Kbps	VBBW0001	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
362	128 Kbps / 128 Kbps	VBBW0002	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
363	256 Kbps / 256 Kbps	VBBW0003	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
364	512 Kbps / 512 Kbps	VBBW0004	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
365	512 Kbps / 1024 Kbps	VBBW0005	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
366	512 Kbps / 1.5 Mbps	VBBW0006	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
367	512 Kbps / 2048 Kbps	VBBW0007	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
368	512 Kbps / 3 Mbps	VBBW0008	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
369	1.5 Mbps / 1.5 Mbps	VBBW0009	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
370	1.5 Mbps / 3 Mbps	VBBW0010	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
371	1.5 Mbps / 6 Mbps	VBBW0011	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
372	1.5 Mbps / 10 Mbps	VBBW0012	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
373	3 Mbps / 3 Mbps	VBBW0013	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
374	3 Mbps / 6 Mbps	VBBW0014	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
375	3 Mbps / 10 Mbps	VBBW0015	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
376	3 Mbps / 15 Mbps	VBBW0016	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
377	4 Mbps / 4 Mbps	VBBW0017	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
378	4 Mbps / 8 Mbps	VBBW0018	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
379	4 Mbps / 10 Mbps	VBBW0019	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
380	4 Mbps / 15 Mbps	VBBW0020	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
381	4 Mbps / 16 Mbps	VBBW0021	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
382	5 Mbps / 5 Mbps	VBDN0001	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
383	5 Mbps / 10 Mbps	VBDN0002	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
384	5 Mbps / 15 Mbps	VBDN0003	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
385	5 Mbps / 20 Mbps	VBDN0004	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
386	10 Mbps / 10 Mbps	VBDN0005	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
387	10 Mbps / 20 Mbps	VBDN0006	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
388	10 Mbps / 30 Mbps	VBDN0007	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
389	10 Mbps / 40 Mbps	VBDN0008	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
390	20 Mbps / 20 Mbps	VBDN0009	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
391	20 Mbps / 30 Mbps	VBDN0010	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
392	20 Mbps / 40 Mbps	VBDN0011	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
393	20 Mbps / 50 Mbps	VBDN0012	Backup bandwidth is based on 25% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of bandwidth available to each of the two sites.
394	64 Kbps / 64 Kbps	VBKW0001	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
395	128 Kbps / 128 Kbps	VBKW0002	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
396	256 Kbps / 256 Kbps	VBKW0003	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
397	512 Kbps / 512 Kbps	VBKW0004	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
398	512 Kbps / 1024 Kbps	VBKW0005	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
399	512 Kbps / 1.5 Mbps	VBKW0006	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
400	512 Kbps / 2048 Kbps	VBKW0007	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
401	512 Kbps / 3 Mbps	VBKW0008	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
402	1.5 Mbps / 1.5 Mbps	VBKW0009	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
403	1.5 Mbps / 3 Mbps	VBKW0010	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
404	1.5 Mbps / 6 Mbps	VBKW0011	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
405	1.5 Mbps / 10 Mbps	VBKW0012	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
406	3 Mbps / 3 Mbps	VBKW0013	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
407	3 Mbps / 6 Mbps	VBKW0014	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
408	3 Mbps / 10 Mbps	VBKW0015	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
409	3 Mbps / 15 Mbps	VBKW0016	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
410	4 Mbps / 4 Mbps	VBKW0017	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
411	4 Mbps / 8 Mbps	VBKW0018	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
412	4 Mbps / 10 Mbps	VBKW0019	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
413	4 Mbps / 15 Mbps	VBKW0020	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
414	4 Mbps / 16 Mbps	VBKW0021	Backup bandwidth is based on 50% of the total aggregate bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of bandwidth available to each of the two sites.
415	0 Kbps / 0 Kbps (VSAT Enhanced Traffic Management)	VHNT0000	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
416	32 Kbps / 32 Kbps	VTRE0001	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
417	64 Kbps / 64 Kbps	VTRE0002	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
418	128 Kbps / 128 Kbps	VTRE0003	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
419	256 Kbps / 256 Kbps	VTRE0004	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
420	512 Kbps / 512 Kbps	VTRE0005	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
421	1024 Kbps / 1024 Kbps	VTRE0006	This service includes VSAT transmit and receive Expedite Forwarding (EF) bandwidth for 1 end point for customer tagged traffic. This service provides QoS to allow for priority queuing across the VSAT link only.
422	0 Kbps / 0 Kbps (VSAT Enhanced Traffic Management)	VPER0001	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.
423	32 kbps / 32 kbps	VPER0002	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
424	64 Kbps / 64 Kbps	VPER0003	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.
425	128 Kbps / 128 Kbps	VPER0004	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
426	256 Kbps / 256 Kbps	VPER0005	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.
427	512 Kbps / 512 Kbps	VPER0006	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
428	1024 Kbps / 1024 Kbps	VPER0007	Backup Expedite Forwarding (EF) bandwidth is based on 10% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the ten VSAT sites at 1Mbps each is 10Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 500 kbps of EF bandwidth available to each of the two sites.
429	0 Kbps / 0 Kbps (VSAT Enhanced Traffic Management)	BEFW0001	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
430	32 Kbps / 32 Kbps	BEFW0002	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.
431	64 Kbps / 64 Kbps	BEFW0003	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.
432	128 Kbps / 128 Kbps	BEFW0004	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
433	256 Kbps / 256 Kbps	BEFW0005	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.
434	512 Kbps / 512 Kbps	BEFW0006	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.
435	1024 Kbps / 1024 Kbps	BEFW0007	Backup Expedite Forwarding (EF) bandwidth is based on 25% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the four VSAT sites is 4 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 2Mbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
436	0 Kbps / 0 Kbps (VSAT Enhanced Traffic Management)	BEPF0001	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.
437	32 Kbps / 32 Kbps	BEPF0002	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.
438	64 Kbps / 64 Kbps	BEPF0003	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
439	128 Kbps / 128 Kbps	BEPF0004	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.
440	256 Kbps / 256 Kbps	BEPF0005	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.
441	512 Kbps / 512 Kbps	BEPF0006	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
442	1024 Kbps / 1024 Kbps	BEPF0007	Backup Expedite Forwarding (EF) bandwidth is based on 50% of the total aggregate EF bandwidth associated with the VSAT sites (not to exceed the per site subscription rate, e.g. 1MB T/R). For example, if the total EF bandwidth of the two VSAT sites is 2 Mbps, then there is 1 Mbps of backup EF bandwidth available to be shared across all VSAT sites accessing the VSAT network at a given time. Therefore, if two VSAT sites are accessing the VSAT network simultaneously, there will be 1Mbps of EF bandwidth available to each of the two sites.
443	MAAS Host Probe Server Premise	MHPR0000	Onsite Deployment: Provides centralized onsite storage of all analyzed Performance Data with expert alert notification and Portal Access for all Monitoring, Diagnostics and Reporting.
444	MAAS Host Probe Server Cloud	MHPC0000	Cloud Deployment: Provides centralized cloud storage of all analyzed Performance Data with expert alert notification and Portal Access for all Monitoring, Diagnostics and Reporting.
445	MAAS Probe Remote - Small	MPRM0001	MAAS Virtual Small features include: Deep Packet visibility of remote sites to provide Performance Monitoring, Diagnostics and Reporting for up to 100Mbps of networked Voice, Video and Application services.
446	MAAS Probe Remote - Medium	MPRM0002	MAAS Virtual Medium features include: Deep Packet visibility of remote sites to provide Performance Monitoring, Diagnostics and Reporting for up to 500Mbps of networked Voice, Video and Application services.
447	MAAS Probe Remote - Large	MPRM0003	MAAS Virtual Large features include: Deep Packet visibility of remote sites to provide Performance Monitoring, Diagnostics and Reporting for up to 1Gbps of networked Voice, Video and Application services.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
448	MAAS Probe Data Center - Small	MPDC0001	MAAS Small Probe Monitoring features include: Deep Packet visibility of Data Center sites to provide Performance Monitoring, Diagnostics and Reporting for up to 1Gbps of networked Voice, Video and Application services.
449	MAAS Probe Data Center - Medium	MPDC0002	MAAS Medium Probe Monitoring features include: Deep Packet visibility of Data Center sites to provide Performance Monitoring, Diagnostics and Reporting for up to 10Gbps of networked Voice, Video and Application services.
450	MAAS Probe Data Center - Large	MPDC0003	MAAS Large Probe Monitoring features include: Deep Packet visibility of Data Center sites to provide Performance Monitoring, Diagnostics and Reporting for greater than 10Gbps of networked Voice, Video and Application services.
451	MAAS ≤100 Mbps	MAPA0001	Bidder's Product Description: Managed Application Assurance Service ≤ 100 Mbps - Provides NetFlow collection and active testing for sites with less than ≤ 100 Mbps WAN connectivity. This service includes the basic monitoring and troubleshooting dashboards, reports, and alert threshold notifications that are available with Application Assurance.
452	MAAS > 100 Mbps	MAPA0002	Bidder's Product Description: Managed Application Assurance Service > 100 – Provides everything provided by Application Assurance Service > 100 for WAN connectivity.
453	MAAS Virtual Pulse - Simulate an End User	MVPS0000	MAAS Virtual Pulse features include: Active testing for service level validation of performance and reliability.
454	MAAS Hardware Pulse - Simulate an End User	MHPS0000	MAAS Hardware Pulse features include: Active testing for service level validation of performance and reliability.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
455	MAAS Customer Care 25 Sites	MCCR0025	MAAS Customer Care Small features include: Professional Monthly Review, Summarized Reporting and expert Troubleshooting Assistance for up to 25 sites.
456	MAAS Customer Care 50 Sites	MCCR0050	MAAS Customer Care Medium features include: Professional Monthly Review, Summarized Reporting and expert Troubleshooting Assistance for up to 50 sites.
457	MAAS Customer Care 100 Sites	MCCR0100	MAAS Customer Care Large features include: Professional Monthly Review, Summarized Reporting and expert Troubleshooting Assistance for up to 100 sites.
458	MAAS Customer Care 100> Sites	MCST0100	MAAS Customer Care Extra Large features include: Professional Monthly Review, Summarized Reporting and expert Troubleshooting Assistance for greater than 100 sites.
459	MWAN Monitor and Notify - Small	MMNS0000	Managed WAN Monitor & Notify - Small provides the monitoring of Small managed device. The device is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to access, transport, or CPE and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will own the resolution of the access and transport issues related to the fault. The customer retains responsibility for resolving all physical and logical CPE issues.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
460	MWAN Monitor and Notify - Medium	MMNM0000	Bidder's Product Description: Managed WAN Monitor & Notify - Medium provides everything provided by Managed WAN Monitor & Notify Small except for a Medium class device. MWAN Monitor and Notify – Medium features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
461	MWAN Monitor and Notify - Large	MMNL0000	Bidder's Product Description: Managed WAN Monitor & Notify - Large provides everything provided by Managed WAN Monitor & Notify Small except for a Large class device. MWAN Monitor and Notify – Large features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification
462	MWAN Physical - Small	MMPS0000	Bidder's Product Description: Managed WAN Physical - Small provides all of the monitoring features of Managed WAN Monitory & Notify Small as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MWAN Physical – Small features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
463	MWAN Physical - Medium	MMPM0000	Bidder's Product Description: Managed WAN Physical - Medium provides all of the monitoring features of Managed WAN Monitory & Notify Medium as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MWAN Physical - Medium features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
464	MWAN Physical - Large	MMPL0000	Bidder's Product Description: Managed WAN Physical - Large provides all of the monitoring features of Managed WAN Monitory & Notify Large as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MWAN Physical - Large features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
465	MWAN Full - Small	MFLS0000	Bidder's Product Description: Managed WAN Full - Small provides all of the monitoring features of Managed WAN Physical - Small as well as Verizon owning the resolution of any logical CPE issues. MWAN Full - Small Full features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
466	MWAN Full - Medium	MFLM0000	Bidder's Product Description: Managed WAN Full - Medium provides all of the monitoring features of Managed WAN Physical - Medium as well as Verizon owning the resolution of any logical CPE issues. MWAN Full - Medium features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
467	MWAN Full - Large	MFLG0000	Bidder's Product Description: MWAN Full - Large provides all of the monitoring features of Managed WAN Physical – Large as well as Verizon owning the resolution of any logical CPE issues. MWAN Full - Large features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
468	MWAN Device Installation	MDVI0000	Bidder's Product Description: Managed WAN Device Installation provides for the process of installing, implementing, and activating a new device under management
469	MWAN Takeover of Existing Device	MTEV0000	Bidder's Product Description: Managed WAN Takeover of Existing Device provides for the takeover process of previously installed and working device for management.
470	MWAN Order Expedite	MOEX0000	Bidder's Product Description: MWAN Order Expedite provides for an expedited process for activating a WAN device in fifteen (15) days or less. . This service is solely for the purposes of expediting the CPE installation process and does not affect circuit installation and activation.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
471	Adtran NETVANTA 3430, 2ND GEN Single T1 router	ADTN3430	Verizon will provide one modular access router that includes one (1) network interface slot and two (2) integral 10/100BaseT Ethernet ports. Supports all current NetVanta Interface Modules. Desktop, wallmount, or rackmount 1U metal chassis. 19" rackmount brackets and wallmount bracket included.
472	Adtran Total Access 908e, w/Lifeline FXO 3rd Gen Dual T1 router	ADTA0908	Verizon will provide one Total Access 908e IP Business Gateway router. Designed for WAN flexibility using Ethernet or T1 WAN. Includes 1 Gigabit 10/100/1000 BaseT port, two 10/100 BaseT interfaces, four T1 interfaces, 8 FXS ports, and IP Router. Includes lifeline FXO interface.
473	Adtran NETVANTA 4430 3xT1 - 8xT1 router	ADTN4430	Verizon will provide one Access Router designed for Internet access, MPLS, frame relay, Ethernet services, point-to-point, and VPN connectivity.
474	Adtran NetVanta 3140 up to 100mb EA router	ADTN3140	Verizon will provide one Fixed-port Ethernet access Router designed for Internet access, MPLS, Ethernet services, VPN connectivity, and Hosted VoIP. Includes 3 integral 10/100/1000BaseT Ethernet interfaces and one USB interface for 3G/4G access.
475	Adtran Total Access 908e, w/Lifeline FXO 3rd Gen SBC 100 SIP Sessions	ATAC0908	Verizon will provide one Total Access 908e IP Business Gateway router with 100 SIP Session license. Designed for WAN flexibility using Ethernet or T1 WAN. Includes 1 Gigabit 10/100/1000 BaseT port, two 10/100 BaseT interfaces, four T1 interfaces, 8 FXS ports, and IP Router. Includes lifeline FXO interface.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
476	Verizon Managed Router single T1 TDM	MRTR0002	Fully Managed Cisco 4321 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with (1) 1xT1 card, 2 GE ports (1 RJ45 copper and 1 combo GE/SFP Fiber) ports. Supports max 1xT1 TDM circuit.
477	Verizon Managed Router 2xT1 TDM	MRTR0003	Fully Managed Cisco 4321 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with (1) 2xT1 card, 2 GE ports (1 RJ45 copper and 1 combo GE/SFP Fiber) ports. Supports max 2xT1 TDM circuit.
478	Verizon Managed Router 3xT1, 4xT1 TDM	MRTR0004	Fully Managed Cisco 4321 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with (2) 2xT1 card, 2 GE ports (1 RJ45 copper and 1 combo GE/SFP Fiber) ports. Supports max 4xT1 TDM circuit.
479	Verizon Managed Router 5xT1, 6xT1 TDM	MRTR0005	Fully Managed Cisco 4321 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with (1) 2xT1 card, (1) 4xT1 card, 2 GE ports (1 RJ45 copper and 1 combo GE/SFP Fiber) ports. Supports max 6xT1 TDM circuit.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
480	Verizon Managed Router Full or Partial DS3 T3 TDM	MRTR0006	Fully Managed Cisco 4331 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with (1) DS3 T3 card, 3 GE ports (3 combo RJ45 GE/SFP Fiber) ports. Supports partial or full 45mb TDM circuit.
481	Verizon Managed Router up to 25mb	MGTR0025	Fully Managed Cisco 4321 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 2 GE ports (1 RJ45 copper and 1 combo RJ45 GE/SFP Fiber) ports. Supports max 25 Mbps circuit.
482	Verizon Managed Router up to 50mb	MGTR0050	Fully Managed Cisco 4331 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 2 GE ports (2 combo RJ45 GE/SFP Fiber) ports. Supports max 50 Mbps circuit.
483	Verizon Managed Router up to 100mb	MGTR0100	Fully Managed Cisco 4351 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 3 GE ports (3 combo RJ45 GE/SFP Fiber) ports. Supports max 100 Mbps circuit.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
484	Verizon Managed Router up to 250mb	MGTR0250	Fully Managed Cisco 4431 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 4 GE ports (4 combo RJ45 GE/SFP Fiber) ports and dual power supplies. Supports max 250 Mbps circuit.
485	Verizon Managed Router up to 500mb	MGTR0500	Fully Managed Cisco 4451 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 4 GE ports (4 combo RJ45 GE/SFP Fiber) ports and dual power supplies. Supports max 500 Mbps circuit.
486	Verizon Managed Router up to 750mb	MGTR0750	Fully Managed Cisco 4461 (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 4 GE ports (4 combo RJ45 GE/SFP Fiber) ports and dual power supplies. Supports max 750 Mbps circuit.
487	Verizon Managed Router up to 1000mb	MGTR1000	Fully Managed Cisco ASR1001X-2.5G (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 6 SFP Fiber ports and dual power supplies. Supports max 1000 Mbps circuit.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
488	Verizon Managed Router up to 10GB	MNGR0010	Fully Managed Cisco ASR1001X-20G (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with 2 10GB SFP Fiber ports, 6 GE ports SFP Fiber ports and dual power supplies. Supports max 10 Gbps circuit.
489	Verizon Managed Router 4G LTE	MRTR0001	Fully Managed Cisco C1111-4P-LTEEA (or equivalent) Verizon provided and maintained router. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base router with Verizon 4G LTE modem, 1 combo GE/SFP Fiber WAN port, 4 GE (4 GE RJ45 copper LAN ports. Supports Verizon Wireless LTE.
490	Encryption/Firewall license Cisco Security license for ISR4321	ENFL4321	Verizon Managed router addition/option - Encryption/Firewall license SL-4320-SEC-K9= Cisco Security license for ISR4321
491	Encryption/Firewall license Cisco Security license for ISR4331	ENFL4331	Verizon Managed router addition/option - Encryption/Firewall license SL-4330-SEC-K9= Cisco Security license for ISR4331
492	Encryption/Firewall license Cisco Security license for ISR4351	ENFL4351	Verizon Managed router addition/option - Encryption/Firewall license SL-4350-SEC-K9= Cisco Security license for ISR4351
493	Encryption/Firewall license Cisco Security license for ISR4431 and ISR4451	ECFL0000	Verizon Managed router addition/option - Encryption/Firewall license SL-44-SEC-K9= Cisco Security license for ISR4431 and ISR4451

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
494	Performance license - doubles throughput allowance for ISR4431 and ISR4451	LCNP0000	Verizon Managed router addition/option - Performance license - doubles throughput allowance FL-44-PERF-K9= for ISR4431 and ISR4451
495	LTE Backup Application license for ISR4321	LBCL4321	Verizon Managed router addition/option - LTE Backup Application license L-SL-4320-APP-K9= for ISR4321
496	LTE Backup Application license for ISR4331	LBCL4331	Verizon Managed router addition/option - LTE Backup Application license L-SL-4330-APP-K9= for ISR4331
497	LTE Backup Application license for ISR4351	LBCL4351	Verizon Managed router addition/option - LTE Backup Application license L-SL-4350-APP-K9= for ISR4351
498	LTE Backup Application license for ISR4431 and ISR4451	LBCA0000	Verizon Managed router addition/option - LTE Backup Application license L-SL-44-APP-K9= for ISR4431 and ISR4451
499	Performance license - doubles throughput allowance for ISR4321	LBCP4321	Verizon Managed router addition/option - Performance license - doubles throughput allowance FL-4320-PERF-K9= for ISR4321
500	Boost Unrestricted Throughput license for ISR4321	RBSL4321	Verizon Managed router addition/option - Boost Unrestricted Throughput license (max circuit 750 Mbps) FL-4320-BOOST-K9= for ISR4321

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
501	Performance license - doubles throughput allowance for ISR4331	LBCP4331	Verizon Managed router addition/option - Performance license - doubles throughput allowance FL-4330-PERF-K9= for ISR4331
502	Boost Unrestricted Throughput license for ISR4331	RBSL4331	Verizon Managed router addition/option - Boost Unrestricted Throughput license (max circuit 1000 Mbps) FL-4330-BOOST-K9= for ISR4331
503	Performance license - doubles throughput allowance for ISR4351	LBCP4351	Verizon Managed router addition/option - Performance license - doubles throughput allowance FL-4350-PERF-K9= for ISR4351
504	Boost Unrestricted Throughput license for ISR4351	RBSL4351	Verizon Managed router addition/option - Boost Unrestricted Throughput license (max circuit 1000 Mbps) FL-4350-BOOST-K9= for ISR4351
505	Boost Unrestricted Throughput license for ISR4431 and ISR4451	RBLC0000	Verizon Managed router addition/option - Boost Unrestricted Throughput license (max circuit 2000 Mbps) FL-44-BOOST-K9= for ISR4431 and ISR4451
506	Performance license - doubles throughput allowance for ISR4461	LBCP4461	Verizon Managed router addition/option - Performance license - doubles throughput allowance FL-4460-PERF-K9= for ISR4461
507	Boost Unrestricted Throughput license for ISR4461	RBSL4461	Verizon Managed router addition/option - Boost Unrestricted Throughput license (max circuit 3000 Mbps) FL-4460-BOOST-K9= for ISR4461

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
508	MMF Fiber SFP 1GB	MMFS0000	Verizon Managed router addition/option - GLC-SX-MMD= 1GB optical multimode SF
509	SMF Fiber SFP 1GB	SNMS0000	Verizon Managed router addition/option - GLC-LH-SMD= 1GB optical single mode SFP
510	Copper RJ45 SFP 1GB	RTCP0000	Verizon Managed router addition/option - GLC-TE= 1GB RJ45 copper SFP
511	10GB optical short range SFP	RTSR0000	Verizon Managed router addition/option - SFP-10G-SR= 10GB optical short range SFP
512	10GB optical long range SFP	RTLR0000	Verizon Managed router addition/option - SFP-10G-LR= 10GB optical long range SFP
513	1GB Single port RJ45/SFP WAN/LAN port card	RTWL0001	Verizon Managed router addition/option - NIM-1GE-CU-SFP= 1GB single port WAN card - must have NIM slot on router
514	1GB Dual port RJ45/SFP WAN/LAN port card	RTWL0002	Verizon Managed router addition/option - NIM-2GE-CU-SFP= 1GB dual port WAN card - must have NIM slot on router
515	4-port PoE Power over Ethernet NIM card	RTPN0004	Verizon Managed router addition/option - NIM-ES2-4= PoE 4-port card - must have NIM slot on router
516	8-port PoE Power over Ethernet NIM card	RTPN0008	Verizon Managed router addition/option - NIM-ES2-8-P= PoE 8-port card - must have NIM slot on router
517	16-port PoE Power over Ethernet SM card	RTPN0016	Verizon Managed router addition/option - SM-X-ES3-16-P= PoE 16-port card - must have SM slot on router
518	Single Port T1 TDM card	SNPR0000	Verizon Managed router addition/option - NIM-1MFT-T1/E1= single port T1 card - must have NIM slot on router
519	Dual port T1 TDM card	DDUH0000	Verizon Managed router addition/option - NIM-2MFT-T1/E1= dual port T1 card - must have NIM slot on router

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
520	4-port T1 TDM card	TPVA0000	Verizon Managed router addition/option - NIM-4MFT-T1/E1= 4-port T1 card - must have NIM slot on router
521	DS3 Card for TDM	RTDC0000	Verizon Managed router addition/option - SM-X-1T3/E3= DS3 card for TDM - must have SM slot on router
522	4G LTE card includes base antennas	LHWT0000	Verizon Managed router addition/option - NIM-4G-LTE-NA Verizon LTE card - includes two (2) standard indoor diversity antennas - requires SIM/service - must have NIM slot on router
523	AC Power Supply for ISR4430	PTSI4430	Verizon Managed router addition/option - PWR-4430-AC= secondary power supply 4430
524	AC Power Supply for ISR4450	PTSI4450	Verizon Managed router addition/option - PWR-4450-AC= secondary power supply 4450
525	AC Power Supply for ISR4460	PTSI4460	Verizon Managed router addition/option - PWR-4460-650-AC= secondary power supply 4460
526	Single Port 10GB Ethernet card	SETN0000	Verizon Managed router addition/option - SPA-1X10GE-WL-V2= single port 10GB Ethernet - must have SPA card slot on router
527	10GB optical MMF Fiber XFP	GPMR0000	Verizon Managed router addition/option - XFP-10G-MM-SR= SFP/XPF 10GB optical
528	10GB optical short range SFP	RGSF0000	Verizon Managed router addition/option - SFP-10G-SR= 10GB optical short range SFP
529	10GB optical long range SFP	RGCB0000	Verizon Managed router addition/option - SFP-10G-LR= 10GB optical long range SFP
530	Packet over Sonet OC12 card	OUOL0000	Verizon Managed router addition/option - SPA-1XOC12-POS-V2= OC12 card for TDM - must have SPA card slot on router
531	Packet over Sonet OC3 card	OCNK0000	Verizon Managed router addition/option - SPA-2XOC3-POS-V2= OC3 card for TDM - must have SPA card slot on router
532	Optical SFP OC3 MMF fiber	OSFM0000	Verizon Managed router addition/option - SFP-OC3-MM= oc3 mulitmode SFP

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
533	Optical SFP OC3 short range	OSFS0000	Verizon Managed router addition/option - SFP-OC3-SR= oc3 short range SFP
534	Optical SFP OC3 Intermediate range	OSFI0000	Verizon Managed router addition/option - SFP-OC3-IR1= oc3 intermediate range SFP
535	Optical SFP OC12 MMF	OPSM0000	Verizon Managed router addition/option - SFP-OC12-MM= oc12 mulitmode SFP
536	Optical SFP OC12 short range	OPSR0000	Verizon Managed router addition/option - SFP-OC12-SR= oc12 short range SFP
537	Optical SFP OC12 Intermediate range	OPSI0000	Verizon Managed router addition/option - SFP-OC12-IR1= oc12 intermediate range SFP
538	MWAN Report - Threshold Proactive Performance Monitoring	MWTH0000	Bidder's Product Description: MWAN Report - Threshold Proactive Performance Monitoring features include: Add-on service to Managed WAN for proactively monitoring specific predefined performance thresholds.
539	MWAN - Reporting - ETM Reporting	MWRE0000	Bidder's Product Description: Managed WAN Analysis – ETM Reporting – This feature includes all of the benefits from the basic reporting included with the managed service. ETM reporting adds the ability to report on QoS, CE-CE path performance, and high-level application data. CE-CE path performance allows reports of information, such as latency, for up to ten (10) paths per managed device. CE network performance allows for monitoring and detailed reporting on traffic volumes for up to twenty (20) Customer defined and selected network protocols. QoS performance reports can be generated on the quality and performance of DSCP and CoS on managed devices. Customer may generate At-a-Glance, Top-N, and Trend reports with PE elements.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
540	MWAN Reporting – Analysis ETM Select w/NetFlow Reporting	MWRA0000	Bidder's Product Description: MWAN Reporting Analysis ETM Select w/NetFlow features include Live Health reporting and collection and reporting from NetFlow data.

541	MWAN Reporting - Network Analysis	MWRN0000	Is an optional service that provides for a Verizon Analysis Professional to review the Customer entitled reports and provides a monthly summarization of issues and provides recommendations to improve network performance. The analyst will analyze the network performance based on key variables such as, but not limited to, utilization, queue drops, and error conditions from the perspective of the Verizon managed device. With a preliminary report established, the analyst has the capability to utilize other Verizon tools and reporting systems, as required, to validate finds and further clarify the nature of the identified issue in finalizing the report. This service also includes a monthly review of the post monthly network performance report with Customer and Verizon account team as well as notification to Customer and/or the appropriate Verizon organization to isolate and resolve performance anomalies discovered outside of the reporting cycle. The monthly report will include up to thirty (30) performance affecting issues as well as volume statistics for the Verizon managed network. The monthly report is based on the prior month's performance data, further investigation of any identified issues, incorporation of relevant and factual information, and recommendation to resolve identified issues. The target date of the first monthly report, upon initiation of the service, is between 60-90 days. A prearranged and schedule conference call will be held between the Verizon Analyst, Verizon Account Team, and Customer to review each month's report. The Verizon Analyst is available between standard business hours Monday through Friday.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
542	MWAN Network Engineering – Small Router	MNSR0000	Bidder's Product Description: Managed WAN Network Engineering – Small Router – Places a small sized router under NE support.
543	MWAN Network Engineering – Medium Router	MNMR0000	Bidder's Product Description: Managed WAN Network Engineering – Medium Router – Places a medium sized router under NE support. MWAN Network Engineering – Medium Router features include: Design Planning, Support Services, and Change Management Support
544	MWAN Network Engineering – Large Router	MNLR0000	Bidder's Product Description: Managed WAN Network Engineering – Large Router – Places a large sized router under NE support.
545	MWAN – Opt Change Mgmt - DHCP IP Helper Configuration	MNOC0000	Bidder's Product Description: Managed WAN Optional Change Management - DHCP IP Helper Configuration - This optional service provides configuration on an existing fully managed WAN device for adding, deleting, or modifying DHCP IP Helper information. This service is performed remotely.
546	MWAN – Opt Change Mgmt - IP NAT Configuration	MNIC0000	Bidder's Product Description: Managed WAN Optional Change Management IP NAT Configuration - This optional service provides router configuration on an existing fully managed WAN device for adding, deleting, or modifying IP NAT configurations entries. This service is performed remotely. MWAN – Opt Change Mgmt - IP NAT Configuration – Add, modify, and/or delete IP Network Address Translation (NAT) configuration

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
547	MWAN – Opt Change Mgmt Network Routed Protocol Configuration	MWNR0000	Bidder's Product Description: Managed WAN Optional Change Management Network Routed Protocol Configuration - This optional service provides router configuration on an existing fully managed router for adding, deleting, or modifying routed protocol entries such as IPX, DLSW, RTP, SIP, HSRP, etc. This service is performed remotely.
548	MWAN – Opt Change Mgmt - MSO IP Address Chg	MWIA0000	Bidder's Product Description: Managed WAN Optional Change Management MSO IP Address Change – This optional service provides router configuration on an existing fully managed router for adding, deleting, or modifying IP Address and/or Mask per the Managed Services Operations (MSO) approved IP addressing plan. This service is performed remotely.
549	MWAN – Opt Change Mgmt - Virtual Circuit Chg	MWVC0000	Bidder's Product Description: Managed WAN Optional Change Management Virtual Circuit Change – This optional service provides router configuration on an existing fully managed router for adding, deleting, or modifying virtual circuit configurations. This service is performed remotely.
550	MWAN – Opt Change Mgmt-Routing Protocol Chg	MWRP0000	Bidder's Product Description: Managed WAN Optional Change Management Routing Protocol Change – This optional service provides router configuration on an existing fully managed router for adding, deleting, or modifying routing protocol configuration and entries (static, EIGRP, OSPF, RIP, BGP, etc.). This service is performed remotely.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
551	MWAN – Opt Change Mgmt - VPN Tunnel Change	MWVT0000	Bidder's Product Description: Managed WAN Optional Change Management VPN Tunnel Change – This optional service provides router configuration on an existing fully managed router for adding, deleting, or modifying Virtual Private Network (VPN) tunnel configuration. This service is performed remotely.
552	MWAN – Opt Change Mgmt-Bandwidth Change-Physical	MWBC0000	Bidder's Product Description: Managed WAN Optional Change Management Bandwidth Change-Physical – This on-site service is for changing out a CSU/DSU or router module required to support a change in physical bandwidth on an existing router.
553	MWAN – Opt Change Mgmt - Hardware Module Upgrade	MWHM0000	Bidder's Product Description: Managed WAN Optional Change Management Hardware Module Upgrade – This on-site service is for the addition of or swapping of a hardware module on an existing router.
554	MWAN – Opt Change Mgmt - Device Move	MWCM0000	Bidder's Product Description: Managed WAN Optional Change Management Device Move – This on-site service provides for the relocation of an existing router between two different buildings up to thirty (30) miles apart. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design changes.
555	MWAN – Opt Change Mgmt - Memory Upgrade	MWMU0000	Bidder's Product Description: Managed WAN Optional Change Management Memory Upgrade – This on-site service is for upgrading memory capacity on an existing router by adding or swapping flash or RAM modules.
556	MWAN – Opt Change Mgmt - Device Exchange	MOCD0000	Bidder's Product Description: Managed WAN Optional Change Management Device Exchange – This on-site service provides for swapping out an existing router for another.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
557	MWAN – Opt Change Mgmt - IOS Change Support New Features	MOIC0000	Bidder's Product Description: Managed WAN Optional Change Management IOS Change Support New Features – This service provides for the installation of a new version or feature set of router software in order to support a new feature.
558	MWAN – Opt Change Mgmt-Traffic Shaping & Queuing Config	MCTR0000	Bidder's Product Description: Managed WAN Optional Change Management Traffic Shaping & Queuing Configuration – This service provides for the addition, deletion, and/or modification of traffic shaping, policing and queuing policies on an existing router. All policies and classification maps will be built on customer provided specification.
559	MWAN – Opt Change Mgmt - Traffic Filter Design	MCTF0000	Bidder's Product Description: Managed WAN Optional Change Management Traffic Filter Design – This service provides for the addition, deletion, and/or modification of traffic filters on an existing router.
560	MWAN – Opt Change Mgmt - Traffic Filter Design	MTFD0000	Bidder's Product Description: Managed WAN Optional Change Management Traffic Filter Design – This service provides for the addition, deletion, and/or modification of traffic filters on an existing router.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
561	MWAN – Field Services Dispatch Normal Hours	MWFN0000	Field Services Dispatch Normal - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman during normal business hours. Exclusive of Verizon recognized holidays, Normal Business hours are defined as M-F 8:00 AM to 5:00 PM Pacific Time.
562	MWAN – Field Services Dispatch Off Hours	MWFO0000	Field Services Dispatch Off Hours - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman outside of normal business hours. Exclusive of Verizon recognized holidays, outside of Normal Business hours defined as M-F 8:00 AM to 5:00 PM Pacific Time.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
563	MWOpt Accelerator Monitor & Notify - Small	MTFS0000	MWOpt Accelerator Monitor & Notify - Small provides for the monitoring of a Small sized managed WAN accelerator. The device is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to access, transport, or CPE and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will own the resolution of the access and transport issues related to the fault. The customer retains responsibility for resolving all physical and logical CPE issues. This service is for the Small class of WAN accelerators.
564	MWOpt Accelerator Monitor & Notify - Medium	MTFM0000	Bidder's Product Description: MWOpt Accelerator Monitor & Notify - Medium provides everything provided bay MWOpt Accelerator Monitor & Notify - Small except for a Medium class of WAN accelerators.
565	MWOpt Accelerator Monitor & Notify - Large	MTFL0000	Bidder's Product Description: MWOpt Accelerator Monitor & Notify – Large provides everything provided bay MWOpt Accelerator Monitor & Notify - Small except for a Large class of WAN accelerators.
566	MWOpt Accelerator Monitor & Notify – X Large	MAMN0000	Bidder's Product Description: MWOpt Accelerator Monitor & Notify - X Large provides everything provided bay MWOpt Accelerator Monitor & Notify - Small except for an X Large class of WAN accelerators.
567	MWOpt Accelerator Physical - Small	MOAS0000	Bidder's Product Description: MWOpt Accelerator Physical – Small provides all of the monitoring features of MWOpt Monitory & Notify - Small as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
568	MWOpt Accelerator Physical - Medium	MOAM0000	Bidder's Product Description: MWOpt Accelerator Physical – Medium provides all of the monitoring features of MWOpt Monitory & Notify - Medium as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues.
569	MWOpt Accelerator Physical - Large	MOAL0000	Bidder's Product Description: MWOpt Accelerator Physical – Large provides all of the monitoring features of Managed WAN Monitory & Notify - Large as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues.
570	MWOpt Accelerator Physical – X Large	MOPL0000	Bidder's Product Description: MWOpt Accelerator Physical – X Large provides all of the monitoring features of MWOpt Monitory & Notify - X Large as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues.
571	MWOpt Accelerator Full – Small	MOFS0000	Bidder's Product Description: MWOpt Accelerator Full – Small provides all of the monitoring features of MWOpt Physical - Small as well as Verizon owning the resolution of any logical CPE issues.
572	MWOpt Accelerator Full – Medium	MOFM0000	Bidder's Product Description: MWOpt Accelerator Full – Medium provides all of the monitoring features of MWOpt Physical - Medium as well as Verizon owning the resolution of any logical CPE issues.
573	MWOpt Accelerator Full – Large	MOFL0000	Bidder's Product Description: MWOpt Accelerator Full – Large provides all of the monitoring features of MWOpt Physical - Large as well as Verizon owning the resolution of any logical CPE issues.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
574	MWOpt Accelerator Full – X Large	MFLL0000	Bidder's Product Description: MWOpt Accelerator Full – X Large provides all of the monitoring features of MWOpt Physical – X Large as well as Verizon owning the resolution of any logical CPE issues.
575	MWOpt Management Console - Small	MMCS0000	Bidder's Product Description: MWOpt Management Console - Small provides management of Device Availability and Health Monitoring, Fault Isolation, Physical and Logical Fault Resolution, Trouble Ticket Generation, and Proactive Outage Notification.
576	MWOpt Management Console – Medium	MMCM0000	Bidder's Product Description: MWOpt Management Console - Medium provides management of Device Availability and Health Monitoring, Fault Isolation, Physical and Logical Fault Resolution, Trouble Ticket Generation, and Proactive Outage Notification.
577	MWOpt Management Console – Large	MMCL0000	Bidder's Product Description: MWOpt Management Console - Large provides management of Device Availability and Health Monitoring, Fault Isolation, Physical and Logical Fault Resolution, Trouble Ticket Generation, and Proactive Outage Notification.
578	MWOpt Managed Implementation	MMNI0000	Bidder's Product Description: MWOpt Managed Implementation provides customers implementation of new networks to be managed by Verizon and who 1) do not have existing equipment, and will need to procure new hardware or 2) have existing equipment and want Verizon to reuse existing equipment, re-configure equipment and provide a design. Customers are required to have their own hardware maintenance agreement.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
579	MWOpt Managed Take-Over	MMNO0000	Bidder's Product Description: MWOpt Managed Take-Over
580	MWOpt Order Expedite	MMOE0000	Bidder's Product Description: MWOpt Order Expedite provides for an expedited process for activating a MWOpt Full Management option only device in Forty Five (45) days or less.
581	MWOpt OS Change Support New Features	MOCS0000	Bidder's Product Description: MWOpt OS Change Support New Features - This optional service provides resources on an existing fully managed WLAN device for changing or upgrading OS for new features. This service is performed remotely.
582	MWOpt Intra-building Move	MOIM0000	Bidder's Product Description: MWOpt Intra-building Move - This optional service provides resources on an existing fully managed MWOpt device for relocating an existing WAN accelerator or management console within a given building. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
583	MWOpt Device Move	MDVM0000	Bidder's Product Description: MWOpt Device Move - This optional service provides resources on an existing fully managed MWOpt device for relocating the WAN accelerator or management console between buildings up to thirty (30) miles apart. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
584	MWOpt Device Exchange	MDVE0000	Bidder's Product Description: MWOpt Device Exchange - This optional service provides resources on an existing fully managed MWOpt device for swapping the WAN accelerator or management console with a substitute device. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
585	MWOpt Field Services Dispatch Normal Hours	MFDN0000	Bidder's Product Description: MWOpt Field Services Dispatch Normal Hours - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman during normal business hours. Exclusive of Verizon recognized holidays, Normal Business hours are defined as M-F 8:00 AM to 5:00 PM Pacific Time.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
586	MWOpt Field Services Dispatch Off Hours	MFDO0000	Bidder's Product Description: MWOpt Field Services Dispatch Off Hours - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman outside of normal business hours. Exclusive of Verizon recognized holidays, outside of Normal Business hours defined as M-F 8:00 AM to 5:00 PM Pacific Time.
587	MPLS Technical Junior Analyst Support Services Junior Consultant	MJSS0000	MPLS Technical Junior Analyst will assist the senior analyst in delivery of all aspects of computing (Layer 4 thru Layer 7) to Layer 3 MPLS service. MPLS Technical Junior Analyst will provide specific scope of work to cover the specific requirements as requested by the State. The MPLS Technical Junior Analyst will have 1-3 years' related work experience and 1 or more years of technical experience.
588	MPLS Technical Analyst	MPTA0000	MPLS Technical Analyst will assist the senior analysis in delivery of all aspects of computing (Layer 4 thru Layer 7) to Layer 3 MPLS service. MPLS Technical Analyst will provide specific scope of work to cover the specific requirements as requested by the State. The MPLS Technical Analyst will have 2-5 years' related work experience and 3 or more years of technical experience.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
589	MPLS Technical Senior Analyst	MPSN0000	MPLS Technical Sr Analyst will assist the senior analysis in delivery of all aspects of computing (Layer 4 thru Layer 7) to Layer 3 MPLS service. MPLS Technical Sr Analyst will provide specific scope of work to cover the specific requirements as requested by the State. The MPLS Technical Sr Analyst will have 5 years' related work experience and 8 or more years of technical experience.
590	MPLS Technical Executive Analyst	MPEA0000	MPLS Technical Executive Analyst will lead delivery of all aspects of computing (Layer 4 thru Layer 7) to Layer 3 MPLS service. MPLS Technical Executive Analyst will provide specific scope of work to cover the specific requirements as requested by the State. The MPLS Technical Executive Analyst will have 10+ years' of technical experience.
591	Premise uCPE Lanner 2.0 - 4	UCHL0004	Verizon owned and managed uCPE Lanner 4 Core to include 16GB DDR4 2400 ECC, 128G SSD, 6 port GBE, 2 port SFP all SRIOV (i350), w/TPM1.2. VNS uCPE Verizon pre-design approval required to properly size the uCPE for VNF size, bandwidth and features. VNF also requires Verizon pre-approved VNF service chaining is required.
592	Premise uCPE Lanner 2.0 - 8	UCHL0008	Verizon owned and managed uCPE Lanner 4 Core to include 32GB DDR4 2400 ECC, 512G SSD, 6 port GBE, 2x SFP, all SRIOV (i350), w/TPM1.2. VNS uCPE Verizon pre-design approval required to properly size the uCPE for VNF size, bandwidth and features. VNF also requires Verizon pre-approved VNF service chaining is required.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
593	Premise uCPE Dell R430-8	UCHD0001	Verizon owned and managed uCPE Dell R430 8 Core to include 32GB RAM, 500GB Disk, 4-1GB Ports, 2-10GB Ports, redundant PSU in all modules, SFP/SFP+ Support, TPM2.0, and DPDK enabled ports. VNS uCPE Verizon pre-design approval required to properly size the uCPE for VNF size, bandwidth and features. VNF also requires Verizon pre-approved VNF service chaining is required.
594	Premise uCPE Dell R430-16	UCHD0002	Verizon owned and managed uCPE Dell R430 16 Core to include 64GB RAM, 1000GB Disk, 4-1GB Ports, 2-10GB Ports, redundant PSU in all modules, SFP/SFP+ Support, TPM2.0, and DPDK enabled ports. VNS uCPE Verizon pre-design approval required to properly size the uCPE for VNF size, bandwidth and features. VNF also requires Verizon pre-approved VNF service chaining is required.
595	Premise uCPE Dell R630-36	UCHD0003	Verizon owned and managed uCPE Dell R630 32 Core to include 128GB RAM, 2880GB Disk, 4-1GB Ports, 4-10GB Ports, redundant PSU in all modules, SFP/SFP+ Support, TPM2.0, and DPDK enabled ports. VNS uCPE Verizon pre-design approval required to properly size the uCPE for VNF size, bandwidth and features. VNF also requires Verizon pre-approved VNF service chaining is required.
596	Cisco CSR 50 Mbps Managed Core	CSRM0050	Verizon Managed Cisco CSR with capacity of 50Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
597	Cisco CSR 100 Mbps Managed Core	CSRM0100	Verizon Managed Cisco CSR with capacity of 100Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
598	Cisco CSR 250 Mbps Managed Core	CSRM0250	Verizon Managed Cisco CSR with capacity of 250Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
599	Cisco CSR 500 Mbps Managed Core	CSRM0500	Verizon Managed Cisco CSR with capacity of 500Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
600	Cisco CSR 1000 Mbps Managed Core	CSRM1000	Verizon Managed Cisco CSR with capacity of 1Gbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
601	Juniper vSRX 20 Mbps Managed Core	MCRX0020	Verizon Managed Juniper vSRX with capacity of 20Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
602	Juniper vSRX 50 Mbps Managed Core	MCRX0050	Verizon Managed Juniper vSRX with capacity of 50Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
603	Juniper vSRX 100 Mbps Managed Core	MCRX0100	Verizon Managed Juniper vSRX with capacity of 100Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
604	Juniper vSRX 1000 Mbps Managed Core	MCRX1000	Verizon Managed Juniper vSRX with capacity of 1GB loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
605	Juniper vSRX 2000 Mbps Managed Core	MCRX2000	Verizon Managed Juniper vSRX with capacity of 2GB loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
606	Viptela vEdge 10 Mbps Managed Complete	WNFV0010	Verizon Managed Viptela vEdge with capacity of 10Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
607	Viptela vEdge 20 Mbps Managed Complete	WNFV0020	Verizon Managed Viptela vEdge with capacity of 20Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
608	Viptela vEdge 50 Mbps Managed Complete	WNFV0050	Verizon Managed Viptela vEdge with capacity of 50Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
609	Viptela vEdge 100 Mbps Managed Complete	WNFV0100	Verizon Managed Viptela vEdge with capacity of 100Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
610	Viptela vEdge 1000 Mbps Managed Complete	WNFV1000	Verizon Managed Viptela vEdge with capacity of 1Gbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
611	Versa 10 Mbps Managed Essential	MESE0010	Verizon Managed Versa with capacity of 10Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity.
612	Versa 20 Mbps Managed Essential	MESE0020	Verizon Managed Versa with capacity of 20Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
613	Versa 50 Mbps Managed Essential	MESE0050	Verizon Managed Versa with capacity of 50Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity.
614	Versa 100 Mbps Managed Essential	MESE0100	Verizon Managed Versa with capacity of 100Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity.
615	Versa 1000 Mbps Managed Essential	MESE1000	Verizon Managed Versa with capacity of 1Gbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity.
616	Versa 10 Mbps Managed Core	MESC0010	Verizon Managed Versa with capacity of 10Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
617	Versa 20 Mbps Managed Core	MESC0020	Verizon Managed Versa with capacity of 20Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
618	Versa 50 Mbps Managed Core	MESC0050	Verizon Managed Versa with capacity of 50Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
619	Versa 100 Mbps Managed Core	MESC0100	Verizon Managed Versa with capacity of 100Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
620	Versa 1000 Mbps Managed Core	MESC1000	Verizon Managed Versa with capacity of 1GMbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
621	Versa 10 Mbps Managed Complete	MNGC0010	Verizon Managed Versa with capacity of 10Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
622	Versa 20 Mbps Managed Complete	MNGC0020	Verizon Managed Versa with capacity of 20Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
623	Versa 50 Mbps Managed Complete	MNGC0050	Verizon Managed Versa with capacity of 50Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
624	Versa 100 Mbps Managed Complete	MNGC0100	Verizon Managed Versa with capacity of 100Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
625	Versa 1000 Mbps Managed Complete	MNGC1000	Verizon Managed Versa with capacity of 1Gbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
626	Fortinet FortiGate 20 Mbps Monitor Essential	MOES0020	Verizon Monitor Fortinet with capacity of 20Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
627	Fortinet FortiGate 50 Mbps Monitor Essential	MOES0050	Verizon Monitor Fortinet with capacity of 50Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
628	Fortinet FortiGate 100 Mbps Monitor Essential	MOES0100	Verizon Monitor Fortinet with capacity of 100Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
629	Fortinet FortiGate 1000 Mbps Monitor Essential	MOES1000	Verizon Monitor Fortinet with capacity of 1Gbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
630	Fortinet FortiGate 20 Mbps Monitor Core	MNEC0020	Verizon Monitor Fortinet with capacity of 20Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
631	Fortinet FortiGate 50 Mbps Monitor Core	MNEC0050	Verizon Monitor Fortinet with capacity of 50Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
632	Fortinet FortiGate 100 Mbps Monitor Core	MNEC0100	Verizon Monitor Fortinet with capacity of 100Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
633	Fortinet FortiGate 1000 Mbps Monitor Core	MNEC1000	Verizon Monitor Fortinet with capacity of 1Gbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
634	Fortinet FortiGate 20 Mbps Monitor Complete	MOCM0020	Verizon Monitor Fortinet with capacity of 20Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
635	Fortinet FortiGate 50 Mbps Monitor Complete	MOCM0050	Verizon Monitor Fortinet with capacity of 50Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
636	Fortinet FortiGate 100 Mbps Monitor Complete	MOCM0100	Verizon Monitor Fortinet with capacity of 100Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
637	Fortinet FortiGate 1000 Mbps Monitor Complete	MOCM1000	Verizon Monitor Fortinet with capacity of 1Gbps loaded with Complete service features as described above. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
638	Fortinet FortiGate 20 Mbps Managed Essential	MNES0020	Verizon Monitor Fortinet with capacity of 20Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
639	Fortinet FortiGate 50 Mbps Managed Essential	MNES0050	Verizon Monitor Fortinet with capacity of 50Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
640	Fortinet FortiGate 100 Mbps Managed Essential	MNES0100	Verizon Monitor Fortinet with capacity of 100Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
641	Fortinet FortiGate 1000 Mbps Managed Essential	MNES1000	Verizon Monitor Fortinet with capacity of 1Gbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
642	Fortinet FortiGate 20 Mbps Managed Core	FRMC0020	Verizon Managed Fortinet with capacity of 20Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
643	Fortinet FortiGate 50 Mbps Managed Core	FRMC0050	Verizon Managed Fortinet with capacity of 50Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
644	Fortinet FortiGate 100 Mbps Managed Core	FRMC0100	Verizon Managed Fortinet with capacity of 100Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
645	Fortinet FortiGate 1000 Mbps Managed Core	FRMC1000	Verizon Managed Fortinet with capacity of 1Gbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
646	Fortinet FortiGate 20 Mbps Managed Complete	MNCL0020	Verizon Managed Fortinet with capacity of 20Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
647	Fortinet FortiGate 50 Mbps Managed Complete	MNCL0050	Verizon Managed Fortinet with capacity of 50Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
648	Fortinet FortiGate 100 Mbps Managed Complete	MNCL0100	Verizon Managed Fortinet with capacity of 100Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
649	Fortinet FortiGate 1000 Mbps Managed Complete	MNCL1000	Verizon Managed Fortinet with capacity of 1Gbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
650	Palo Alto 20 Mbps Monitor Essential	MOME0020	Verizon Monitor Palo Alto with capacity of 20Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
651	Palo Alto 50 Mbps Monitor Essential	MOME0050	Verizon Monitor Palo Alto with capacity of 50Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
652	Palo Alto 100 Mbps Monitor Essential	MOME0100	Verizon Monitor Palo Alto with capacity of 100Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
653	Palo Alto 1000 Mbps Monitor Essential	MOME1000	Verizon Monitor Palo Alto with capacity of 1Gbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
654	Palo Alto 20 Mbps Monitor Core	MMCR0020	Verizon Monitor Palo Alto with capacity of 20Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
655	Palo Alto 50 Mbps Monitor Core	MMCR0050	Verizon Monitor Palo Alto with capacity of 50Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
656	Palo Alto 100 Mbps Monitor Core	MMCR0100	Verizon Monitor Palo Alto with capacity of 100Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
657	Palo Alto 1000 Mbps Monitor Core	MMCR1000	Verizon Monitor Palo Alto with capacity of 1Gbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
658	Palo Alto 20 Mbps Monitor Complete	MCMP0020	Verizon Monitor Palo Alto with capacity of 20Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
659	Palo Alto 50 Mbps Monitor Complete	MCMP0050	Verizon Monitor Palo Alto with capacity of 50Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
660	Palo Alto 100 Mbps Monitor Complete	MCMP0100	Verizon Monitor Palo Alto with capacity of 100Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
661	Palo Alto 1000 Mbps Monitor Complete	MCMP1000	Verizon Monitor Palo Alto with capacity of 1Gbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
662	Palo Alto 20 Mbps Managed Essential	MESN0020	Verizon Managed Palo Alto with capacity of 20Mbps loaded with Essential service features.
663	Palo Alto 50 Mbps Managed Essential	MESN0050	Verizon Managed Palo Alto with capacity of 50Mbps loaded with Essential service features.
664	Palo Alto 100 Mbps Managed Essential	MESN0100	Verizon Managed Palo Alto with capacity of 100Mbps loaded with Essential service features.
665	Palo Alto 1000 Mbps Managed Essential	MESN1000	Verizon Managed Palo Alto with capacity of 1Gbps loaded with Essential service features.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
666	Palo Alto 20 Mbps Managed Core	MNCR0020	Verizon Managed Palo Alto with capacity of 20Mbps loaded with Core service features.
667	Palo Alto 50 Mbps Managed Core	MNCR0050	Verizon Managed Palo Alto with capacity of 50Mbps loaded with Core service features.
668	Palo Alto 100 Mbps Managed Core	MNCR0100	Verizon Managed Palo Alto with capacity of 100Mbps loaded with Core service features.
669	Palo Alto 1000 Mbps Managed Core	MNCR1000	Verizon Managed Palo Alto with capacity of 1Gbps loaded with Core service features.
670	Palo Alto 20 Mbps Managed Complete	MGCM0010	Verizon Managed Palo Alto with capacity of 20Mbps loaded with Complete service features.
671	Palo Alto 50 Mbps Managed Complete	MGCM0050	Verizon Managed Palo Alto with capacity of 50Mbps loaded with Complete service features.
672	Palo Alto 100 Mbps Managed Complete	MGCM0100	Verizon Managed Palo Alto with capacity of 100Mbps loaded with Complete service features.
673	Palo Alto 1000 Mbps Managed Complete	MGCM1000	Verizon Managed Palo Alto with capacity of 1Gbps loaded with Complete service features.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
674	Check Point 10 Mbps Monitor Essential	SCPE0010	Verizon Monitor Check Point with capacity of 10Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
675	Check Point 20 Mbps Monitor Essential	SCPE0020	Verizon Monitor Check Point with capacity of 20Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
676	Check Point 50 Mbps Monitor Essential	SCPE0050	Verizon Monitor Check Point with capacity of 50Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
677	Check Point 100 Mbps Monitor Essential	SCPE0100	Verizon Monitor Check Point with capacity of 100Mbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
678	Check Point 1000 Mbps Monitor Essential	SCPE1000	Verizon Monitor Check Point with capacity of 1Gbps loaded with Essential service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
679	Check Point 10 Mbps Monitor Core	SCPM0010	Verizon Monitor Check Point with capacity of 10Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
680	Check Point 20 Mbps Monitor Core	SCPM0020	Verizon Monitor Check Point with capacity of 20Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
681	Check Point 50 Mbps Monitor Core	SCPM0050	Verizon Monitor Check Point with capacity of 50Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
682	Check Point 100 Mbps Monitor Core	SCPM0100	Verizon Monitor Check Point with capacity of 100Mbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
683	Check Point 1000 Mbps Monitor Core	SCPM1000	Verizon Monitor Check Point with capacity of 1Gbps loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
684	Check Point 10 Mbps Monitor Complete	SCMC0010	Verizon Monitor Check Point with capacity of 10Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
685	Check Point 20 Mbps Monitor Complete	SCMC0020	Verizon Monitor Check Point with capacity of 20Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
686	Check Point 50 Mbps Monitor Complete	SCMC0050	Verizon Monitor Check Point with capacity of 50Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
687	Check Point 100 Mbps Monitor Complete	SCMC0100	Verizon Monitor Check Point with capacity of 100Mbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
688	Check Point 1000 Mbps Monitor Complete	SCMC1000	Verizon Monitor Check Point with capacity of 1Gbps loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
689	Check Point 10 Mbps Managed Essential	SCME0010	Verizon Managed Check Point with capacity of 10Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
690	Check Point 20 Mbps Managed Essential	SCME0020	Verizon Managed Check Point with capacity of 20Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
691	Check Point 50 Mbps Managed Essential	SCME0050	Verizon Managed Check Point with capacity of 50Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
692	Check Point 100 Mbps Managed Essential	SCME0100	Verizon Managed Check Point with capacity of 100Mbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
693	Check Point 1000 Mbps Managed Essential	SCME1000	Verizon Managed Check Point with capacity of 1Gbps loaded with Essential service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
694	Check Point 10 Mbps Managed Core	SMCR0010	Verizon Managed Check Point with capacity of 10Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
695	Check Point 20 Mbps Managed Core	SMCR0020	Verizon Managed Check Point with capacity of 20Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
696	Check Point 50 Mbps Managed Core	SMCR0050	Verizon Managed Check Point with capacity of 50Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
697	Check Point 100 Mbps Managed Core	SMCR0100	Verizon Managed Check Point with capacity of 100Mbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
698	Check Point 1000 Mbps Managed Core	SMCR1000	Verizon Managed Check Point with capacity of 1Gbps loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
699	Check Point 10 Mbps Managed Complete	SMNC0010	Verizon Managed Check Point with capacity of 10Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
700	Check Point 20 Mbps Managed Complete	SMNC0020	Verizon Managed Check Point with capacity of 20Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
701	Check Point 50 Mbps Managed Complete	SMNC0050	Verizon Managed Check Point with capacity of 50Mbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.
702	Check Point 100 Mbps Managed Complete	SMNC0100	Verizon Managed Check Point with capacity of 100Mbps loaded with Complete service features.
703	Check Point 1000 Mbps Managed Complete	SMNC1000	Verizon Managed Check Point with capacity of 1Gbps loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
704	Riverbed Steelhead Max Connections 150 Monitor Core	MACN0150	Verizon Monitor Riverbed with capacity of 150 maximum connections loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
705	Riverbed Steelhead Max Connections 650 Monitor Core	MACN0650	Verizon Monitor Riverbed with capacity of 650 maximum connections loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
706	Riverbed Steelhead Max Connections 2,300 Monitor Core	MACN2300	Verizon Monitor Riverbed with capacity of 2,300 maximum connections loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
707	Riverbed Steelhead Max Connections 6,000 Monitor Core	MACN6000	Verizon Monitor Riverbed with capacity of 6,000 maximum connections loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
708	Riverbed Steelhead Max Connections 14,000 Monitor Core	MACN0014	Verizon Monitor Riverbed with capacity of 14,000 maximum connections loaded with Core service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
709	Riverbed Steelhead Max Connections 150 Monitor Complete	MACM0150	Verizon Monitor Riverbed with capacity of 150 maximum connections loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
710	Riverbed Steelhead Max Connections 650 Monitor Complete	MACM0650	Verizon Monitor Riverbed with capacity of 650 maximum connections loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
711	Riverbed Steelhead Max Connections 2,300 Monitor Complete	MACM2300	Verizon Monitor Riverbed with capacity of 2,300 maximum connections loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
712	Riverbed Steelhead Max Connections 6,000 Monitor Complete	MACM6000	Verizon Monitor Riverbed with capacity of 6,000 maximum connections loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
713	Riverbed Steelhead Max Connections 14,000 Monitor Complete	MACM0014	Verizon Monitor Riverbed with capacity of 14,000 maximum connections loaded with Complete service features. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
714	Riverbed Steelhead Max Connections 150 Managed Core	MACR0150	Verizon Managed Riverbed with capacity of 150 maximum connections loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
715	Riverbed Steelhead Max Connections 650 Managed Core	MACR0650	Verizon Managed Riverbed with capacity of 650 maximum connections loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
716	Riverbed Steelhead Max Connections 2,300 Managed Core	MACR2300	Verizon Managed Riverbed with capacity of 2,300 maximum connections loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
717	Riverbed Steelhead Max Connections 6,000 Managed Core	MACR6000	Verizon Managed Riverbed with capacity of 6,000 maximum connections loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
718	Riverbed Steelhead Max Connections 14,000 Managed Core	MACR0014	Verizon Managed Riverbed with capacity of 14,000 maximum connections loaded with Core service features. Requires Verizon Premise based uCPE of adequate capacity.
719	Riverbed Steelhead Max Connections 150 Managed Complete	MCMC0150	Verizon Managed Riverbed with capacity of 150 maximum connections loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
720	Riverbed Steelhead Max Connections 650 Managed Complete	MCMC0650	Verizon Managed Riverbed with capacity of 650 maximum connections loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
721	Riverbed Steelhead Max Connections 2,300 Managed Complete	MCMC2300	Verizon Managed Riverbed with capacity of 2,300 maximum connections loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
722	Riverbed Steelhead Max Connections 6,000 Managed Complete	MCMC6000	Verizon Managed Riverbed with capacity of 6,000 maximum connections loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.
723	Riverbed Steelhead Max Connections 14,000 Managed Complete	MCMC0014	Verizon Managed Riverbed with capacity of 14,000 maximum connections loaded with Complete service features. Requires Verizon Premise based uCPE of adequate capacity.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
724	HNS Cisco CSR 100 Mbps Managed Core	HNSC0100	Verizon Hosted Network Service Managed Cisco CSR with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network.
725	HNS Cisco CSR 1000 Mbps Managed Core	HNSC1000	Verizon Hosted Network Service Managed Cisco CSR with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network.
726	HNS Juniper vSRX 100 Mbps Managed Core	HNSJ0100	Verizon Hosted Network Service Managed Juniper vSRX with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network.
727	HNS Juniper vSRX 1000 Mbps Managed Core	HNSJ1000	Verizon Hosted Network Service Managed Juniper vSRX with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network.
728	HNS Juniper vSRX 10 Gbps Managed Core	HNJM0010	Verizon Hosted Network Service Managed Juniper vSRX with capacity of 10Gbps with Core service features. Includes 10Gbps Internet Connection.
729	HNS Viptela vEdge 100 Mbps Managed Complete	HNSE0100	Verizon Hosted Network Service Managed Viptela vEdge with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network.
730	HNS Viptela vEdge 1000 Mbps Managed Complete	HNSE1000	Verizon Hosted Network Service Managed Viptela vEdge with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
731	HNS Fortinet FortiGate 100 Mbps Monitor Essential	HNSF0001	Verizon Hosted Network Service Monitor Fortinet with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
732	HNS Fortinet FortiGate 1000 Mbps Monitor Essential	HNSF0002	Verizon Hosted Network Service Monitor Fortinet with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
733	HNS Fortinet FortiGate 10 Gbps Monitor Essential	HNSF0003	Verizon Hosted Network Service Monitor Fortinet with capacity of 10Gbps with Essential service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
734	HNS Fortinet FortiGate 100 Mbps Monitor Core	HNSF0004	Verizon Hosted Network Service Monitor Fortinet with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
735	HNS Fortinet FortiGate 1000 Mbps Monitor Core	HNSF0005	Verizon Hosted Network Service Monitor Fortinet with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
736	HNS Fortinet FortiGate 10 Gbps Monitor Core	HNSF0006	Verizon Hosted Network Service Monitor Fortinet with capacity of 10Gbps with Core service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
737	HNS Fortinet FortiGate 100 Mbps Monitor Complete	HNSF0007	Verizon Hosted Network Service Monitor Fortinet with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
738	HNS Fortinet FortiGate 1000 Mbps Monitor Complete	HNSF0008	Verizon Hosted Network Service Monitor Fortinet with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
739	HNS Fortinet FortiGate 10 Gbps Monitor Complete	HNSF0009	Verizon Hosted Network Service Monitor Fortinet with capacity of 10Gbps with Complete service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
740	HNS Fortinet FortiGate 100 Mbps Managed Essential	HNSF0010	Verizon Hosted Network Service Managed Fortinet with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
741	HNS Fortinet FortiGate 1000 Mbps Managed Essential	HNSF0011	Verizon Hosted Network Service Managed Fortinet with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
742	HNS Fortinet FortiGate 10 Gbps Managed Essential	HNSF0012	Verizon Hosted Network Service Managed Fortinet with capacity of 10Gbps with Essential service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
743	HNS Fortinet FortiGate 100 Mbps Managed Core	HNSF0013	Verizon Hosted Network Service Managed Fortinet with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
744	HNS Fortinet FortiGate 1000 Mbps Managed Core	HNSF0014	Verizon Hosted Network Service Managed Fortinet with capacity of 1Gbps with Core service features. Includes 1GMbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
745	HNS Fortinet FortiGate 10 Gbps Managed Core	HNSF0015	Verizon Hosted Network Service Managed Fortinet with capacity of 10Gbps with Core service features. Includes 10GMbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
746	HNS Fortinet FortiGate 100 Mbps Managed Complete	HNSF0016	Verizon Hosted Network Service Managed Fortinet with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
747	HNS Fortinet FortiGate 1000 Mbps Managed Complete	HNSF0017	Verizon Hosted Network Service Managed Fortinet with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
748	HNS Fortinet FortiGate 10 Gbps Managed Complete	HNSF0018	Verizon Hosted Network Service Managed Fortinet with capacity of 10Gbps with Complete service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
749	HNS Palo Alto 100 Mbps Monitor Essential	HNMN0001	Verizon Hosted Network Service Monitor Palo Alto with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
750	HNS Palo Alto 1000 Mbps Monitor Essential	HNMN0002	Verizon Hosted Network Service Monitor Palo Alto with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
751	HNS Palo Alto 10 Gbps Monitor Essential	HNMN0003	Verizon Hosted Network Service Monitor Palo Alto with capacity of 10Gbps with Essential service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
752	HNS Palo Alto 100 Mbps Monitor Core	HNMN0004	Verizon Hosted Network Service Monitor Palo Alto with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
753	HNS Palo Alto 1000 Mbps Monitor Core	HNMN0005	Verizon Hosted Network Service Monitor Palo Alto with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
754	HNS Palo Alto 10 Gbps Monitor Core	HNMN0006	Verizon Hosted Network Service Monitor Palo Alto with capacity of 10Gbps with Core service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
755	HNS Palo Alto 100 Mbps Monitor Complete	HNMN0007	Verizon Hosted Network Service Monitor Palo Alto with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
756	HNS Palo Alto 1000 Mbps Monitor Complete	HNMN0008	Verizon Hosted Network Service Monitor Palo Alto with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
757	HNS Palo Alto 10 Gbps Monitor Complete	HNMN0009	Verizon Hosted Network Service Monitor Palo Alto with capacity of 10Gbps with Complete service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
758	HNS Palo Alto 100 Mbps Managed Essential	HNMN0010	Verizon Hosted Network Service Managed Palo Alto with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
759	HNS Palo Alto 1000 Mbps Managed Essential	HNMN0011	Verizon Hosted Network Service Managed Palo Alto with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
760	HNS Palo Alto 10 Gbps Managed Essential	HNMN0012	Verizon Hosted Network Service Managed Palo Alto with capacity of 10Gbps with Essential service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
761	HNS Palo Alto 100 Mbps Managed Core	HNMN0013	Verizon Hosted Network Service Managed Palo Alto with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
762	HNS Palo Alto 1000 Mbps Managed Core	HNMN0014	Verizon Hosted Network Service Managed Palo Alto with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
763	HNS Palo Alto 10 Gbps Managed Core	HNMN0015	Verizon Hosted Network Service Managed Palo Alto with capacity of 10Gbps with Core service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
764	HNS Palo Alto 100 Mbps Managed Complete	HNMN0016	Verizon Hosted Network Service Managed Palo Alto with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
765	HNS Palo Alto 1000 Mbps Managed Complete	HNMN0017	Verizon Hosted Network Service Managed Palo Alto with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
766	HNS Palo Alto 10 Gbps Managed Complete	HNMN0018	Verizon Hosted Network Service Managed Palo Alto with capacity of 10Gbps with Complete service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
767	HNS Check Point 100 Mbps Monitor Essential	CPME0100	Verizon Hosted Network Service Monitor Check Point with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
768	HNS Check Point 1000 Mbps Monitor Essential	CPME1000	Verizon Hosted Network Service Monitor Check Point with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
769	HNS Check Point 2000 Mbps Monitor Essential	CPME2000	Verizon Hosted Network Service Monitor Check Point with capacity of 10Gbps with Essential service features. Includes 2Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
770	HNS Check Point 100 Mbps Monitor Core	CPMC0100	Verizon Hosted Network Service Monitor Check Point with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
771	HNS Check Point 1000 Mbps Monitor Core	CPMC1000	Verizon Hosted Network Service Monitor Check Point with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
772	HNS Check Point 2000 Mbps Monitor Core	CPMC2000	Verizon Hosted Network Service Monitor Check Point with capacity of 10Gbps with Core service features. Includes 2Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
773	HNS Check Point 100 Mbps Monitor Complete	CMNC0100	Verizon Hosted Network Service Monitor Check Point with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
774	HNS Check Point 1000 Mbps Monitor Complete	CMNC1000	Verizon Hosted Network Service Monitor Check Point with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
775	HNS Check Point 2000 Mbps Monitor Complete	CMNC2000	Verizon Hosted Network Service Monitor Check Point with capacity of 10Gbps with Complete service features. Includes 2Gbps Internet Connection from the Verizon MPLS Network. Verizon provides initial installation, management IP configuration and licensing of VNFs. Once the service is in production, Verizon hands over the responsibility and access to the application VNF to the customer. The customer is responsible for the configuration and policies on the VNF, including fault Isolation, resolution, Configuration back-up, Carrier coordination, trouble ticket tracking and creation (with the vendor and Verizon), performance management, Change management. If the customer requires a new VM to be stood up, they would open a ticket with Verizon to complete the task. Any requested changes to the capability and features set requires a change order and potentially and change in hardware and a reimaging of the VNF. Customer responsibility for security policy.
776	HNS Check Point 100 Mbps Managed Essential	CMNE0100	Verizon Hosted Network Service Managed Check Point with capacity of 100Mbps with Essential service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
777	HNS Check Point 1000 Mbps Managed Essential	CMNE1000	Verizon Hosted Network Service Managed Check Point with capacity of 1Gbps with Essential service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
778	HNS Check Point 2000 Mbps Managed Essential	CMNE2000	Verizon Hosted Network Service Managed Check Point with capacity of 10Gbps with Essential service features. Includes 2Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
779	HNS Check Point 100 Mbps Managed Core	CMCR0100	Verizon Hosted Network Service Managed Check Point with capacity of 100Mbps with Core service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
780	HNS Check Point1000 Mbps Managed Core	CMCR1000	Verizon Hosted Network Service Managed Check Point with capacity of 1Gbps with Core service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
781	HNS Check Point 2000 Mbps Managed Core	CMCR2000	Verizon Hosted Network Service Managed Check Point with capacity of 10Gbps with Core service features. Includes 10Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
782	HNS Check Point 100 Mbps Managed Complete	CHMN0100	Verizon Hosted Network Service Managed Check Point with capacity of 100Mbps with Complete service features. Includes 100Mbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
783	HNS Check Point 1000 Mbps Managed Complete	CHMN1000	Verizon Hosted Network Service Managed Check Point with capacity of 1Gbps with Complete service features. Includes 1Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
784	HNS Check Point 2000 Mbps Managed Complete	CHMN2000	Verizon Hosted Network Service Managed Check Point with capacity of 2Gbps with Complete service features. Includes 2Gbps Internet Connection from the Verizon MPLS Network. Customer responsibility for security policy.
785	HNS SBC Sonus Small (250 Concurrent Calls) Managed Essential	SNSS0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 250 Concurrent Calls with Essential service features.
786	HNS SBC Sonus Medium (1,000 Concurrent Calls) Managed Essential	SNSM0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 1,000 Concurrent Calls with Essential service features.
787	HNS SBC Sonus Small Managed Core	SNMC0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 250 Concurrent Calls with Core service features.
788	HNS SBC Sonus Medium Managed Core	SMDC0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 1,000 Concurrent Calls with Core service features.
789	HNS SBC Sonus Small Managed Complete	SMNC0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 250 Concurrent Calls with Complete service features.
790	HNS SBC Sonus Medium Managed Complete	SMMC0000	Verizon Hosted Network Service Managed SBC Sonus with capacity of 1,000 Concurrent Calls with Complete service features.
791	HNS SBC Sonus License Small Managed Essential	SLSM0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 250 Concurrent Calls with Essential service features.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
792	HNS SBC Sonus License Medium Managed Essential	SLMM0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 1,000 Concurrent Calls with Essential service features.
793	HNS SBC Sonus License Small Managed Core	SLMC0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 250 Concurrent Calls with Core service features.
794	HNS SBC Sonus License Medium Managed Core	SNLM0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 1,000 Concurrent Calls with Core service features.
795	HNS SBC Sonus License Small Managed Complete	SNLC0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 250 Concurrent Calls with Complete service features.
796	HNS SBC Sonus License Medium Managed Complete	SMML0000	Verizon Hosted Network Service Managed SBC Sonus License with capacity of 1,000 Concurrent Calls with Complete service features.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
797	Staging Customer Sw/Rtr/Sec Equip LO Regular Hours	MSLO0000	Labor Only (LO) Regular Hours staging for switch/router/security include unpackaging, power up device, and burn-in the equipment provided by the Customer. IOS will be upgraded to the agreed upon version and installation of customer provided configuration onto the device. Conduct appropriate pre-cutover testing. Inventory of device in Master Database by documenting device specific information (serial number, model and manufacturer), network specific information, such as IP address, subnet in spread sheet format and label each switch in accordance to customer labeling scheme. Create and place asset tags in accordance with customer Asset Tracking Inventory Process. Provide configuration documentation in electronic and hard copies. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. Does not include the network design related to the device or trouble shooting configurations not allowing device to work on customer network. Staging of Switch/Router/ Security Appliance excludes Installation, Test and Turn-up and Configuration support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
798	Installation Customer Sw/Rtr/Sec Equip of Device LO Regular Hours	MNLO0000	Labor Only (LO) Regular Hours transport device (e.g. Device type can be, not limited to, the following: UPS, Switch, Wireless Access Point, Voice Gateways, Router, Security Appliance, Terminal Servers, etc...) to correct location from within the building, unpackage, attach applicable plates / racking brackets, placement of device in rack per customer direction, power up device, and connect the device to the customer provided network patch cords. This would include removing existing equipment from rack, if applicable, and clean up directly related to work performed. Technician will be deployed after customer has confirmed devices are onsite and accessible to perform this work. Must be ordered in conjunction with CALNET services. Does not include the Staging activities, testing post installation at customer site, troubleshooting of the device in the customer network, or Configuration Support related to the device. Switch not to exceed 48 ports. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
799	Customer Switch Basic On-Site Test and Turn-Up LO Regular Hours	MCOS0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality (e.g. Switch or UPS). Standard Layer 2 configuration with non-default security features. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 1 hour per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
800	Customer Switch Advance On-Site Test and Turn-Up LO Regular Hours	MCSA0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality. Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
801	Customer Router Basic On-Site Test and Turn-Up LO Regular Hours	MCRB0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Basic includes static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, and simple access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
802	Customer Router Advanced On-Site Test and Turn-Up LO Regular Hours	MRAD0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Advanced includes dynamic routing, more complex Network Address Translation (NAT), complex access lists, Policy-Based Routing (PBR), and non-default security. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
803	Customer Security Appliance Basic On-Site Test and Turn-Up LO Regular Hours	MSTT0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Basic includes simple access lists and basic Network Address Translation (NAT). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Trouble shooting is limited to 1 hour per device.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
804	Customer Security Appliance Advance On-Site Test and Turn-Up LO Regular Hours	MSAA0000	Labor Only (LO) Regular Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Advance includes complex access list, extensive Port Address Translation (PAT), basic Next Generation Security Appliances, basic IDS, basic IPS, and basic Policy-Based Routing (PBR). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
805	Customer Switch/Router Configuration Support LO Regular Hours	MCSW0000	Labor Only (LO) Regular Hours provide customer configuration support related to design assistance for switch activities to include Standard Layer 2 configuration with non-default security features, Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Router activities to include Static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, simple access lists, dynamic routing, more complex NAT, complex access lists, Policy-Based Routing (PBR), and non-default security. Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
806	Customer Security Appliance Configuration Support LO Regular Hours	MCUA0000	Labor Only (LO) Regular Hours provide customer configuration support related to design assistance for switch activities to include Standard Layer 2 configuration with non-default security features, Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Router activities to include Static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, simple access lists, dynamic routing, more complex NAT, complex access lists, Policy-Based Routing (PBR), and non-default security. Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
807	Technical PM Support Customer Equip LO Regular Hours	MTPM0000	Labor Only (LO) Regular Hours Technical Project Management Support provides for installation of devices supporting ancillary services efforts to develop and implement comprehensive project processes and plans. Verizon project manager will coordinate all project resources including customer staff and other resources related to completing the effort. • Develop and coordinate schedule for configuration and deployment of customer provided devices. • Provide periodic status reports and updates to project schedule throughout duration of project. • Act as liaison between customer point of contact and other resources required to include but not limited to staging, rack and stack, on-site test and turn-up, and configuration support of devices. Provide customer final documentation for final close-out. Must be ordered in conjunction with CALNET services. Not to exceed 48 hours per project. IPR may be available based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
808	Staging Customer Sw/Rtr/Sec Equip LO Overtime Hours	STCO0000	Labor Only (LO) Overtime Hours staging for switch/router/security include unpackaging, power up device, and burn-in the equipment provided by the Customer. IOS will be upgraded to the agreed upon version and installation of customer provided configuration onto the device. Conduct appropriate pre-cutover testing. Inventory of device in Master Database by documenting device specific information (serial number, model and manufacturer), network specific information, such as IP address, subnet in spread sheet format and label each switch in accordance to customer labeling scheme. Create and place asset tags in accordance with customer Asset Tracking Inventory Process. Provide configuration documentation in electronic and hard copies. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. Does not include the network design related to the device or trouble shooting configurations not allowing device to work on customer network. Staging of Switch/Router/ Security Appliance excludes Installation, Test and Turn-up and Configuration support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
809	Installation Customer Sw/Rtr/Sec Equip of Device LO Overtime Hours	ICOH0000	Labor Only (LO) Overtime Hours transport device (e.g. Device type can be, not limited to, the following: UPS, Switch, Wireless Access Point, Voice Gateways, Router, Security Appliance, Terminal Servers, etc.) to correct location from within the building, unpackage, attach applicable plates / racking brackets, placement of device in rack per customer direction, power up device, and connect the device to the customer provided network patch cords. This would include removing existing equipment from rack, if applicable, and clean up directly related to work performed. Technician will be deployed after customer has confirmed devices are onsite and accessible to perform this work. Must be ordered in conjunction with CALNET services. Does not include the Staging activities, testing post installation at customer site, troubleshooting of the device in the customer network, or Configuration Support related to the device. Switch not to exceed 48 ports. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
810	Customer Switch Basic On-Site Test and Turn-Up LO Overtime Hours	CSBH0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality (e.g. Switch or UPS). Standard Layer 2 configuration with non-default security features. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 1 hour per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
811	Customer Switch Advance On-Site Test and Turn-Up LO Overtime Hours	CSAH0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality. Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
812	Customer Router Basic On-Site Test and Turn-Up LO Overtime Hours	CROH0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Basic includes static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, and simple access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
813	Customer Router Advanced On-Site Test and Turn-Up LO Overtime Hours	CRAO0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Advanced includes dynamic routing, more complex Network Address Translation (NAT), complex access lists, Policy-Based Routing (PBR), and non-default security. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
814	Customer Security Appliance Basic On-Site Test and Turn-Up LO Overtime Hours	CSAP0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Basic includes simple access lists and basic Network Address Translation (NAT). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Trouble shooting is limited to 1 hour per device.
815	Customer Security Appliance Advance On-Site Test and Turn-Up LO Overtime Hours	CSOH0000	Labor Only (LO) Overtime Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Advance includes complex access list, extensive Port Address Translation (PAT), basic Next Generation Security Appliances, basic IDS, basic IPS, and basic Policy-Based Routing (PBR). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
816	Customer Switch/Router Configuration Support LO Overtime Hours	CSRC0000	Labor Only (LO) Overtime Hours provide customer configuration support related to design assistance for switch activities to include Standard Layer 2 configuration with non-default security features, Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Router activities to include Static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, simple access lists, dynamic routing, more complex NAT, complex access lists, Policy-Based Routing (PBR), and non-default security. Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.
817	Customer Security Appliance Configuration Support LO Overtime Hours	CSAC0000	Labor Only (LO) Overtime Hours provide customer configuration support related to design assistance for Security Appliance activities to include simple access lists, and Network Address Translation (NAT), Complex access list, extensive Port Address Translation (PAT), Next Generation Security Appliances, IDS, IPS, Policy-Based Routing (PBR). Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
818	Technical PM Support Customer Equip LO Overtime Hours	TPME0000	Labor Only (LO) Overtime Hours staging for switch/router/security include unpackaging, power up device, and burn-in the equipment provided by the Customer. IOS will be upgraded to the agreed upon version and installation of customer provided configuration onto the device. Conduct appropriate pre-cutover testing. Inventory of device in Master Database by documenting device specific information (serial number, model and manufacturer), network specific information, such as IP address, subnet in spread sheet format and label each switch in accordance to customer labeling scheme. Create and place asset tags in accordance with customer Asset Tracking Inventory Process. Provide configuration documentation in electronic and hard copies. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. Does not include the network design related to the device or trouble shooting configurations not allowing device to work on customer network. Staging of Switch/Router/ Security Appliance excludes Installation, Test and Turn-up and Configuration support of device activities. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
819	Staging Customer Sw/Rtr/Sec Equip LO Sunday and Holiday Hours	SRSH0000	Labor Only (LO) Sunday and Holiday Hours staging for switch/router/security include unpackaging, power up device, and burn-in the equipment provided by the Customer. IOS will be upgraded to the agreed upon version and installation of customer provided configuration onto the device. Conduct appropriate pre-cutover testing. Inventory of device in Master Database by documenting device specific information (serial number, model and manufacturer), network specific information, such as IP address, subnet in spread sheet format and label each switch in accordance to customer labeling scheme. Create and place asset tags in accordance with customer Asset Tracking Inventory Process. Provide configuration documentation in electronic and hard copies. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. Does not include the network design related to the device or trouble shooting configurations not allowing device to work on customer network. Staging of Switch/Router/ Security Appliance excludes Installation, Test and Turn-up and Configuration support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
820	Installation Customer Sw/Rtr/Sec Equip of Device LO Sunday and Holiday Hours	ICRS0000	Labor Only (LO) Sunday and Holiday Hours transport device (e.g. Device type can be, not limited to, the following: UPS, Switch, Wireless Access Point, Voice Gateways, Router, Security Appliance, Terminal Servers, etc.) to correct location from within the building, unpackage, attach applicable plates / racking brackets, placement of device in rack per customer direction, power up device, and connect the device to the customer provided network patch cords. This would include removing existing equipment from rack, if applicable, and clean up directly related to work performed. Technician will be deployed after customer has confirmed devices are onsite and accessible to perform this work. Must be ordered in conjunction with CALNET services. Does not include the Staging activities, testing post installation at customer site, troubleshooting of the device in the customer network, or Configuration Support related to the device. Switch not to exceed 48 ports. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
821	Customer Switch Basic On-Site Test and Turn-Up LO Sunday and Holiday Hours	CSWB0000	Labor Only (LO) Sunday and Holiday Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality (e.g. Switch or UPS). Standard Layer 2 configuration with non-default security features. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 1 hour per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
822	Customer Switch Advance On-Site Test and Turn-Up LO Sunday and Holiday Hours	CSWA0000	Labor Only (LO) Sunday and Holiday Hours review customer provided configuration, review customer provided test plan and follow test plan for switch functionality. Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
823	Customer Router Basic On-Site Test and Turn-Up LO Sunday and Holiday Hours	CRBT0000	Labor Only (LO) Sunday and Holiday Hours review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Basic includes static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, and simple access lists. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.
824	Customer Router Advanced On-Site Test and Turn-Up LO Sunday and Holiday Hours	CRTH0000	Labor Only (LO) review customer provided configuration, review customer provided test plan and follow test plan for router functionality. Advanced includes dynamic routing, more complex Network Address Translation (NAT), complex access lists, Policy-Based Routing (PBR), and non-default security. Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
825	Customer Security Appliance Basic On-Site Test and Turn-Up LO Sunday and Holiday Hours	CSAB0000	Labor Only (LO) Sunday and Holiday Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Basic includes simple access lists and basic Network Address Translation (NAT). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Hourly rates scope cannot conflict with scope identified on this feature code. Trouble shooting is limited to 1 hour per device.
826	Customer Security Appliance Advance On-Site Test and Turn-Up LO Sunday and Holiday Hours	CSCS0000	Labor Only (LO) Sunday and Holiday Hours review customer provided configuration, review customer provided test plan and follow test plan for device functionality. Advance includes complex access list, extensive Port Address Translation (PAT), basic Next Generation Security Appliances, basic IDS, basic IPS, and basic Policy-Based Routing (PBR). Remediate defective equipment and return to manufacturer based on customer purchased maintenance agreement as required. Must be ordered in conjunction with CALNET services. This does not include Staging, Installation and Configuration Support of device activities. Trouble shooting is limited to 2 hours per device. Hourly rates scope cannot conflict with scope identified on this feature code. Multiple occurrences may be IPR'ed based on volume.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
827	Customer Switch/Router Configuration Support LO Sunday and Holiday Hours	CSWR0000	Labor Only (LO) Sunday and Holiday Hours provide customer configuration support related to design assistance for switch activities to include Standard Layer 2 configuration with non-default security features, Layer 3 routing features, network policy integration, advanced security features to include DHCP Snooping, dynamic Advanced Routing Protocols (ARP) inspection, MAC filtering, and Layer 2 access lists. Router activities to include Static routing, stub dynamic routing, basic Network Address Translation (NAT), pre-defined Quality of Service (QoS) parameters, simple access lists, dynamic routing, more complex NAT, complex access lists, Policy-Based Routing (PBR), and non-default security. Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.
828	Customer Security Appliance Configuration Support LO Sunday and Holiday Hours	CSSN0000	Labor Only (LO) Sunday and Holiday Hours provide customer configuration support related to design assistance for Security Appliance activities to include simple access lists, and Network Address Translation (NAT), Complex access list, extensive Port Address Translation (PAT), Next Generation Security Appliances, IDS, IPS, Policy-Based Routing (PBR). Configuration support will provide industry best practices and align with customer compliancy requirements. Must be ordered in conjunction with CALNET services. Not to exceed 16 hours per project. Multiple occurrences may be IPR'ed based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
829	Technical PM Support Customer Equip LO Sunday and Holiday Hours	TPMS0000	Labor Only (LO) Sunday and Holiday Hours Technical Project Management Support provides for installation of devices supporting ancillary services efforts to develop and implement comprehensive project processes and plans. Verizon project manager will coordinate all project resources including customer staff and other resources related to completing the effort. • Develop and coordinate schedule for configuration and deployment of customer provided devices. • Provide periodic status reports and updates to project schedule throughout duration of project. • Act as liaison between customer point of contact and other resources required to include but not limited to staging, rack and stack, on-site test and turn-up, and configuration support of devices. Provide customer final documentation for final close-out. Must be ordered in conjunction with CALNET services. Not to exceed 48 hours per project. IPR may be available based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
830	MLAN - Monitor and Notify - Small	MLNS0000	Managed LAN - Monitor & Notify - Small provides the monitoring of a Small managed device. The device is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to access, transport, or CPE and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will own the resolution of the access and transport issues related to the fault. The customer retains responsibility for resolving all physical and logical CPE issues.
831	MLAN - Monitor and Notify - Medium	MLNM0000	Bidder's Product Description: Managed LAN - Monitor & Notify - Medium provides everything provided by Managed LAN Monitor & Notify - Small except this service is for LAN equipment classified as a Medium sized device. MLAN - Monitor and Notify – Medium features include: Device Availability and Health Monitoring, Trouble Ticket Generation, and Proactive Outage Notification.
832	MLAN - Monitor and Notify - Large	MLNL0000	Bidder's Product Description: Managed LAN - Monitor & Notify - Large provides everything provided by Managed LAN Monitor & Notify - Small except this service is for LAN equipment classified as a Large sized device. MLAN - Monitor and Notify – Large features include: Device Availability and Health Monitoring, Trouble Ticket Generation, and Proactive Outage Notification.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
833	MLAN - Physical - Small	MPSM0000	Bidder's Product Description: Managed LAN - Physical - Small provides all of the monitoring features of Managed LAN Monitor and Notify – Small as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MLAN - Physical – Small features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
834	MLAN - Physical - Medium	MPMD0000	Bidder's Product Description: Managed LAN - Physical - Medium provides all of the monitoring features of Managed LAN Monitor and Notify – Medium as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MLAN - Physical - Medium features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
835	MLAN - Physical - Large	MPLG0000	Bidder's Product Description: Managed LAN - Physical - Large provides all of the monitoring features of Managed LAN Monitor and Notify – Large as well as Verizon owning the resolution of any physical CPE issues. The customer retains responsibility for resolving all logical CPE issues. MLAN - Physical - Large features include: Device Availability and Health Monitoring, Fault Isolation, Trouble Ticket Generation, and Proactive Outage Notification.
836	MLAN - Full - Small	MLFS0000	Bidder's Product Description: Managed LAN - Full - Small provides all of the monitoring features of Managed LAN Physical - Small as well as Verizon owning the resolution of any logical CPE issues.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
837	MLAN -Full - Medium	MLFM0000	Bidder's Product Description: Managed LAN - Full - Medium provides all of the monitoring features of Managed LAN Physical - Medium as well as Verizon owning the resolution of any logical CPE issues.
838	MLAN - Full - Large	MLLG0000	Bidder's Product Description: Managed LAN - Full - Large provides all of the monitoring features of Managed LAN Physical - Large as well as Verizon owning the resolution of any logical CPE issues.
839	MLAN - Takeover of Existing Device	MLTO0000	Bidder's Product Description: Managed LAN - Takeover of Existing Device provides for the takeover process of previously installed and working device for management.
840	MLAN -Device Installation	MLIN0000	Bidder's Product Description: Managed LAN - Device Installation provides for the process of installing, implementing, and activating a new device under management
841	MLAN -Order Expedite	MLOE0000	Bidder's Product Description: Managed LAN - Order Expedite provides for an expedited process for activating a LAN device in fifteen (15) days or less. This service is solely for the purposes of expediting the CPE installation process and does not affect circuit installation and activation.
842	Managed PoE Switch Adtran 24 Port	MGLP0024	Fully Managed Adtran 24-port Gigabit Ethernet PoE LAN Switch (or equivalent). Verizon provided and maintained PoE LAN Switch delivering 802.3af (PoE at 15.4 watts/per port) and 802.3at (PoE+ at 25.5 watts per port) to maximum 370 watts. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base switch with (4) 1GB/10GB SFP+ uplink ports.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
843	Managed PoE Switch Adtran 48 Port	MGLP0048	Fully Managed Adtran 48-port Gigabit Ethernet PoE LAN Switch (or equivalent). Verizon provided and maintained PoE LAN Switch delivering 802.3af (PoE at 15.4 watts/per port) and 802.3at (PoE+ at 25.5 watts per port) to maximum 370 watts. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base switch with (4) 1GB/10GB SFP+ uplink ports.
844	Managed Stackable PoE Switch Cisco 24 Port	MGPC0024	Verizon Managed LAN Switch 24-port PoE Layer 2 LAN switch
845	Managed Stackable PoE Switch Cisco 48 Port	MGPC0052	Verizon Managed LAN Switch 48-port PoE Layer 2 LAN switch
846	Cisco Stacking Kit	MLCC0000	Verizon Managed LAN Switch addition/option - Stackable switching module option
847	Cisco Stacking Cable 1 Meter	MGSC0001	Verizon Managed LAN Switch addition/option - Stackable module cable option 1 meter
848	Cisco Stacking Cable 3 Meter	MGCS0003	Verizon Managed LAN Switch addition/option - Stackable module cable option 3 meter
849	Redundant Power Supply for PoE Switch	MGLS0000	Verizon Managed LAN Switch addition/option - Stackable LAN Switch Dual Power option
850	Managed Cisco 12-port Fiber LAN Switch	MGLC0000	Fully Managed Cisco 12-port SFP LAN Switch (or equivalent). Verizon provided and maintained SFP LAN Switch. Includes physical install, configuration, life-cycle hardware/software maintenance and diagnostic monitoring via included OOB line/modem. Base switch with (12) SFP ports (SFP's not included).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
851	MLAN - Reporting Threshold Proactive Perform Monitor	MRTH0000	Bidder's Product Description: Managed LAN - Services Reporting general description applies to the following Managed LAN - Services Reporting line items. Verizon's Managed LAN Services Reporting provides optional reporting capabilities that are in addition to the standard reporting included with Verizon's Managed LAN Services.
852	MLAN - Reporting – ETM Reporting	MLRE0000	Bidder's Product Description: MLAN - Reporting - Analysis – ETM Reporting features includes Enhanced Traffic Management reports of QoS, NBAR, and response times
853	MLAN Reporting - ETM Select Reporting w/NetFlow Reporting	MLNR0000	MLAN - Reporting Analysis ETM Select NetFlow features includes Live Health reporting, collection and reporting from NetFlow data.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
854	MLAN - Reporting Network Analysis	MLRA0000	Bidder's Product Description: Managed LAN - Reporting Network Analysis is an optional service that provides for a Verizon Analysis Professional to review the Customer entitled reports and provides a monthly summarization of issues and provides recommendations to improve network performance. The analyst will analyze the network performance based on key variables such as, but not limited to, utilization, queue drops, and error conditions from the perspective of the Verizon managed device. With a preliminary report established, the analyst has the capability to utilize other Verizon tools and reporting systems, as required, to validate finds and further clarify the nature of the identified issue in finalizing the report. This service also includes a monthly review of the post monthly network performance report with Customer and Verizon account team as well as notification to Customer and/or the appropriate Verizon organization to isolate and resolve performance anomalies discovered outside of the reporting cycle.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
855	MLAN - Network Engineering – Small Switch	MLSS0000	Bidder's Product Description: Managed LAN - Network Engineering Services general description applies to the following Managed LAN - Network Engineering Services line items. Verizon's Managed LAN Network Engineering (NE) Services provide additional support and on-going engineering advice, and is a premium architecture and engineering service that augments the services provided by Verizon's Managed WAN, Managed LAN, and Managed Wireless LAN services. Network Engineering is an offering that includes on-going supplemental architectural, design, and engineering support for Managed Services with a minimum of twenty (20) devices under the Full level of service.
856	MLAN - Network Engineering – Medium Switch	MLMS0000	Bidder's Product Description: Managed LAN - Network Engineering – Medium Switch – Places a medium switch under NE support.
857	MLAN – Optional Change Mgmt - Intra-LAN Routing Turn-up	MLOM0000	Bidder's Product Description: Managed LAN - Optional Change Management Intra-LAN Routing Turn-up – This optional service provides for configuration on a fully managed LAN device of LAN based Layer-3 switching/routing. This service is performed remotely.
858	MLAN – Optional Change Mgmt - Intra-LAN Routing Support	MOIR0000	Bidder's Product Description: Managed LAN – Optional Change Management Intra-LAN Routing Support – This optional service provides for the additional management and support of LAN based Layer-3 switching/routing on a fully managed LAN device. This fee is in addition to the Managed LAN Full – (Small, Medium, Large) management fee.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
859	MLAN – Optional Change Mgmt -DHCP IP Helper Configure	MODI0000	Bidder's Product Description: Managed LAN - Optional Change Management Dynamic Host Configuration Protocol (DHCP) IP Helper Configuration - This optional service provides configuration on an existing fully managed LAN device for adding, deleting, or modifying DHCP IP Helper information. This service is performed remotely.
860	MLAN – Optional Change Mgmt - IP Address Change	MOIA0000	Bidder's Product Description: Managed LAN - Optional Change Management IP Address Change – This optional service provides configuration on an existing fully managed LAN device for adding, deleting, or modifying and IP address or network mask. This service is performed remotely.
861	MLAN – Optional Change Mgmt - Hostname Change	MOHC0000	Bidder's Product Description: Managed LAN - Optional Change Management Hostname Change – This optional service provides configuration on an existing fully managed LAN device for modifying the hostname. This service is performed remotely.
862	MLAN – Optional Change Mgmt - VLAN Add/Delete	MOAD0000	Bidder's Product Description: Managed LAN – Optional Change Management Virtual LAN Add/Delete - This optional service provides configuration on an existing fully managed LAN device for creating a new VLAN or deleting and existing VLAN. This service is performed remotely.
863	MLAN - Optional Change Mgmt - Trunking Configuration	MOCT0000	Bidder's Product Description: Managed LAN – Optional Change Management - Trunking Configuration - This optional service provides configuration on an existing fully managed LAN device for enabling or disabling trunking. This service includes configuration of Dynamic Trunk Protocol (DTP) and configuration of trunking encapsulation mode. This service is performed remotely.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
864	MLAN - Optional Change Mgmt - Spanning Tree Add/Delete	MCSP0000	Bidder's Product Description: Managed LAN – Optional Change Management - Spanning Tree Add/Delete – This optional service provides configuration on an existing fully managed LAN device for enabling or disabling STP. This service includes configuring port costs, priority, root bridge, etc when enabling SPT. This service is performed remotely.
865	MLAN - Optional Change Mgmt - Storm Control Add/Delete	MOSC0000	Bidder's Product Description: Managed LAN – Optional Change Management - Storm Control Add/Delete - This optional service provides configuration on an existing fully managed LAN device for enabling or disabling storm control for broadcast, multicast, and unicast traffic. Applicable thresholds will be configured when enabling storm control. This service is performed remotely.
866	MLAN - Optional Change Mgmt - EtherChannel Add/Delete	MOEC0000	Bidder's Product Description: Managed LAN – Optional Change Management - EtherChannel Add/Delete - This optional service provides configuration on an existing fully managed LAN device for enabling or disabling link aggregation (e.g. Cisco EtherChannel). Enabling link aggregation will include configuring port modes and aggregation protocols. This service is performed remotely.
867	MLAN - Optional Change Mgmt - UDLD Add/Delete	MOUA0000	Bidder's Product Description: Managed LAN – Optional Change Management - Unidirectional Link Detection (UDLD) Add/Delete - This optional service provides configuration on an existing fully managed LAN device for enabling or disabling UDLD and associated modes. This service is performed remotely.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
868	MLAN - Optional Change Mgmt - Multicast Configuration	MOMC0000	Bidder's Product Description: Managed LAN – Optional Change Management - Multicast Configuration - This optional service provides configuration on an existing fully managed LAN device for configuration of Internet Group Management Protocol (IGMP) snooping, GARP Multicast Registration Protocol (GMRP), and Router-Port Group Management Protocol (RGMP). This service is performed remotely.
869	MLAN - Optional Change Mgmt - VTP Configuration	MOCN0000	Bidder's Product Description: Managed LAN – Optional Change Management - VLAN Trunking Protocol (VTP) Configuration - This optional service provides configuration on an existing fully managed LAN device for configuration of VTP and all associated parameters (e.g. mode, password, domain, pruning, version). This service is performed remotely.
870	MLAN - Optional Change Mgmt - Memory Upgrade	MOMU0000	Bidder's Product Description: Managed LAN – Optional Change Management - Memory Upgrade - This optional service provides resources on an existing fully managed LAN device for installing customer provided RAM and/or flash memory. This includes dispatching a technician for the installation or swapping of memory modules and remote management and configuration support.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
871	MLAN - Optional Change Mgmt - IOS Support New Features	MOSF0000	Bidder's Product Description: Managed LAN – Optional Change Management - IOS Support New Features - This optional service provides resources on an existing fully managed LAN device for changing or upgrading IOS for new features. This includes dispatching a technician for on-site support and remote management and configuration support.
872	MLAN - Optional Change Mgmt - Intra-building Move	MOCI0000	Bidder's Product Description: Managed LAN - Optional Change Management - Intra-building Move - This optional service provides resources on an existing fully managed LAN device for relocating an existing switch within a given building. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
873	MLAN - Optional Change Mgmt - Hardware Module Upgrade	MOCH0000	Bidder's Product Description: Managed LAN – Optional Change Management - Hardware Module Upgrade - This optional service provides resources on an existing fully managed LAN device for adding or swapping a modular component. This includes dispatching a technician for on-site support and remote management and configuration support.
874	MLAN - Optional Change Mgmt - Device Move	MCHM0000	Bidder's Product Description: Managed LAN – Optional Change Management - Device Move - This optional service provides resources on an existing fully managed LAN device for relocating the device between buildings up to thirty (30) miles apart. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
875	MLAN - Optional Change Mgmt - Device Exchange	MCMD0000	Bidder's Product Description: Managed LAN – Optional Change Management - Device Exchange - This optional service provides resources on an existing fully managed LAN device for swapping the device with a substitute device. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
876	MLAN - Optional Change Mgmt - Field Services Dispatch Normal	MCLN0000	Bidder's Product Description: Managed LAN – Optional Change Management - Field Services Dispatch Normal - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman during normal business hours. Exclusive of Verizon recognized holidays, Normal Business hours are defined as M-F 8:00 AM to 5:00 PM Pacific Time.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
877	MLAN - Optional Change Mgmt - Field Svcs Dispatch Off Hours	MOCL0000	Bidder's Product Description: Managed LAN – Optional Change Management - Field Services Dispatch Off Hours - In lieu of the optional change management per occurrence services described with on premise activities for truck rolls, customers have the option to utilize the established hourly rate. Labor charges will commence upon arrival at customer site. Only the highest single NRC will be charged per device. This optional service provides for dispatch a technician to perform on-site managed services on a time basis at the level of a journeyman outside of normal business hours. Exclusive of Verizon recognized holidays, outside of Normal Business hours defined as M-F 8:00 AM to 5:00 PM Pacific Time.
878	MWLAN - Controller Full - Small	MCFS0000	Bidder's Product Description: Managed Wireless LAN - Controller Full - Small provides for the monitoring of a Small sized managed WLAN controller. The WLAN controller is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to a physical CPE issue or logical issue and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will remedy CPE physical and logical faults. A Small WLAN controller can support up to twenty-five (25) access points.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
879	MWLAN - Controller Full - Medium	MCMM0000	Bidder's Product Description: Managed Wireless LAN Controller Full - Medium provides for the monitoring of a Medium sized managed WLAN controller. The WLAN controller is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to a physical CPE issue or logical issue and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will remedy CPE physical and logical faults. A Medium WLAN controller can support between twenty-six (26) and fifty (50) access points.
880	MWLAN - Controller Full - Large	MCFL0000	Bidder's Product Description: Managed Wireless LAN - Controller Full – Large provides for the monitoring of a Large sized managed WLAN controller. The WLAN controller is polled on a regular basis, and a repeated failure of the device to respond to polls will indicate a fault condition and will generate alarms. The fault will be isolated to a physical CPE issue or logical issue and a trouble ticket will be opened on the customer's behalf, and the customer will be proactively notified of the outage. Verizon will remedy CPE physical and logical faults. A Large WLAN controller can support fifty-one (51) access points and greater.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
881	MWLAN - Takeover of Existing Controller	MWEC0000	Bidder's Product Description: Managed Wireless LAN - Takeover of Existing Controller provides for the takeover process of previously installed and working network for management. Customer will provide site specific information, detailed network information, and interviews for Verizon's design review. Verizon will generate a Statement of Requirements (SOR) detailing the inventory of Customer's network, identifying any physical and logical activities required to bring the network under management, and identifying any additional associated costs to Customer for the necessary upgrades in order to bring the device/network under management. Verizon will provide this service in accordance to the terms and conditions of a SOR as agreed upon by both parties.
882	MWLAN - Controller Installation	MWIC0000	Bidder's Product Description: Managed Wireless LAN - Controller Installation provides for the installation, configuration, and management of a new WLAN network. Verizon will provide a design based on Customer provided information (e.g. system requirement, application requirements, end-user requirements) that will include a detailed logical design and physical equipment requirements. Verizon will implement the solution, provide project management, and hand-off to Verizon's Managed Services Operations center. Verizon will provide this service in accordance to the terms and conditions of a SOR as agreed upon by both parties.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
883	Managed Wireless LAN Controller Cisco Small Copper	MGWC0000	Fully Managed Cisco WLAN Controller includes design, install and implementation of WLAN equipment - supports up to 250 Wireless Access Points
884	Managed Wireless LAN Controller Cisco Small Fiber	MGWF0000	Fully Managed Cisco WLAN Controller includes design, install and implementation of WLAN equipment - supports up to 250 Wireless Access Points
885	Managed WLAN Controller Cisco Medium	MGMC0000	Fully Managed Cisco WLAN Controller includes design, install and implementation of WLAN equipment - supports up to 2000 Wireless Access Points
886	Managed WLAN Controller Cisco Large	MGWL0000	Fully Managed Cisco WLAN Controller includes design, install and implementation of WLAN equipment - supports up to 6000 Wireless Access Points
887	Managed Access Point Indoor Cisco 4x4 MIMO w/Internal antenna 2.4mGig	MGCA0000	Fully Managed Cisco WLAN Access Point includes design, install and implementation of indoor WLAN Access Point 802.11ax support. Internal antennas included.
888	Managed Access Point Indoor Cisco 8x8 MIMO w/Internal antenna 5mGig	MGAP0000	Fully Managed Cisco WLAN Access Point includes design, install and implementation of indoor WLAN Access Point 802.11ax support. Internal antennas included.
889	Managed Access Point Indoor Cisco 4x4 MIMO w/Internal antenna 2.4mGig	MGAI0000	Fully Managed Cisco WLAN Access Point includes design, install and implementation of indoor WLAN Access Point 802.11ax support. Internal antennas included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
890	Managed Access Point Indoor Cisco 4x4 MIMO External antennas required	MGWA0000	Fully Managed Cisco WLAN Access Point includes design, install and implementation of indoor WLAN Access Point 802.11ax support. External antennas not included.
891	Managed Access Point Outdoor Cisco w/Internal antenna	MGOP0000	Fully Managed Cisco WLAN Access Point includes design and implementation of outdoor WLAN Access Point 802.11ac Wave 2 support. Outdoor install not included.
892	MWLAN - Access Point Full	MACW0000	Bidder's Product Description: Managed Wireless LAN - Access Point Full provides for monitoring of access points with logical and physical fault resolution.
893	MWLAN - Takeover of Existing Access Point	MWEA0000	Bidder's Product Description: Managed Wireless LAN - Takeover of Existing Access Point provides all of the features of Managed WLAN Takeover of Existing Controller for the AP component of the network.
894	MWLAN - Authentication Appliance Full	MWAF0000	Bidder's Product Description: Managed Wireless LAN - Authentication Appliance Full provides for monitoring of an authentication appliance with logical and physical fault resolution.
895	MWLAN - Takeover of Existing Authentication Appliance	MWTA0000	Bidder's Product Description: Managed Wireless LAN - Takeover of Existing Authentication Appliance provides all of the features of Managed WLAN Takeover of Existing Controller for the authentication appliance component of the network.
896	MWLAN - Authentication Appliance Installation	MWUI0000	Bidder's Product Description: Managed Wireless LAN - Authentication Appliance Installation provides all of the features of Managed WLAN Controller Installation for the Authentication Appliance component of the network.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
897	MWLAN - Opt Chg Mgmt - IP Address Change	MWCC0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management - IP Address Change – This optional service provides configuration on an existing fully managed WLAN device for adding, deleting, or modifying and IP address or network mask. This service is performed remotely.
898	MWLAN - Opt Chg Mgmt - Hostname Change	MWCH0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management - Hostname Change – This optional service provides configuration on an existing fully managed WLAN device for modifying the hostname. This service is performed remotely.
899	MWLAN - Opt Chg Mgmt - VLAN Add/Delete	MWCA0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management – Virtual LAN Add/Delete - This optional service provides configuration on an existing fully managed WLAN device for creating a new VLAN or deleting and existing VLAN. This service is performed remotely.
900	MWLAN - Opt Chg Mgmt - WLAN HW Upgrade	MWCU0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management - Hardware Module Upgrade is an optional service provides resources on an existing fully managed WLAN device for adding or swapping a modular component. This includes dispatching a technician for on-site support and remote management and configuration support.
901	MWLAN - Opt Chg Mgmt - Span Tree Add/Del	MWSA0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management - Spanning Tree Add/Delete if an optional service provides configuration on an existing fully managed WLAN device for enabling or disabling STP. This service is performed remotely.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
902	MWLAN - Opt Chg Mgmt - OS Support New Feature	MWCS0000	Bidder's Product Description: Managed Wireless LAN – Operating System Change Support New Features - This optional service provides resources on an existing fully managed WLAN device for changing or upgrading OS for new features. This service is performed remotely.
903	MWLAN - Opt Chg Mgmt - MLAN Intra-build Move	MCBI0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management – Wireless LAN Intra-building Move - This optional service provides resources on an existing fully managed WLAN device for relocating an existing wireless device within a given building. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
904	MWLAN - Opt Chg Mgmt - WLAN Device Move	MWLM0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management – Wireless LAN Device Move - This optional service provides resources on an existing fully managed LAN device for relocating the wireless device between buildings up to thirty (30) miles apart. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.
905	MWLAN - Opt Chg Mgmt - WLAN Device Exchange	MWLE0000	Bidder's Product Description: Managed Wireless LAN – Optional Change Management – Wireless LAN Device Exchange - This optional service provides resources on an existing fully managed WLAN device for swapping the wireless device with a substitute device. This includes dispatching a technician for on-site support and remote management and configuration support and assumes no design change.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
906	VoIP Transition Support Service (Legacy to VoIP Services)	VSWS0000	"VoIP Transition Support Service (Legacy to VoIP Service) – A VoIP Transition Management Service that will provide the customer assistance with CALNET3 VoIP Handset Service Package transition from existing legacy voice services to Verizon's CALNET3 VoIP Handset service. VoIP Transition Support Service (Legacy to VoIP Service) Support Service activities require a Statement of Work (SOW) subject to the defined activities below, projects based, in blocks of 40 hours. VoIP Transition Support Service (Legacy to VoIP Service) - VoIP Transition Support Service will include the following: • Coordinate with the Verizon VoIP Support Services to understand the project transition scope and local Incumbent or Competitive Local Exchange Carriers (ILEC/CLEC) voice service record inventory. • The VoIP Support Services will validate the porting users list against the ILEC/CLEC records to ensure that the inventory matches the expected project outcome. " Must be ordered in conjunction with CALNET VoIP Handset Service Package services available on subcategory 1.2 and 1.3. Not to exceed 40 hour blocks per project. IPR may be available based on scope.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
907	Technical Services Support I - Standard Hours/Regular Rate (8am - 5pm local time)	TCSV0001	Basic Network Skillset - Standard Hours: Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment. Can only be sold in conjunction with services supported on CALNET
908	Technical Services Support I - Non-Standard Hours	TCSN0001	Basic Network Skillset - Non Standard Hours Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment. Can only be sold in conjunction with services supported on CALNET
909	Technical Services Support II - Standard Hours/Regular Rate (8am - 5pm local time)	TCSV0002	Basic Plus Network Skillset - Standard Hours: Pre or Post- implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches and firewalls. Can only be sold in conjunction with services supported on CALNET
910	Technical Services Support II - Non-Standard Hours	TCSN0002	Basic Plus Network Skillset -Non Standard Hours: Pre or Post- implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches. Can only be sold in conjunction with services supported on CALNET

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
911	Network Engineer - Standard Hours/Regular Rate (8am - 5pm local time)	NTWE0000	Advanced Network Engineering Skillset- Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example Network configurations of router, switches, Firewall & VoIP. Can only be sold in conjunction with services supported on CALNET
912	Network Engineer - Non-Standard Hours	NWEN0000	Advanced Network Engineering Skillset- Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example Network configurations of router, switches, Firewall & VoIP. Can only be sold in conjunction with services supported on CALNET.
913	Network Engineer II - Standard Hours/Regular Rate (8am - 5pm local time)	NESR0000	Advanced Plus Network Engineering Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN. Can only be sold in conjunction with services supported on CALNET

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
914	Network Engineer II - Non-Standard Hours	NENS0000	Advanced Plus Network Engineering Skillset - Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN. Can only be sold in conjunction with services supported on CALNET
915	Professional Services - Senior Engineer - Standard Hours/Regular Rate (8am - 5pm local time)	PRSE0000	Professional Network Engineer: Person may hold a degree or industry certifications in specific specialization. Security, cyber security, disaster recovery and business continuity and Advanced networking specific to manufacturer. Can only be sold in conjunction with services supported on CALNET
916	Professional Services Principal Architect I - Standard Hours/Regular Rate (8am - 5pm local time)	PRNA0001	Multi-Skillset Individual providing Network oversight: Pre or Post- implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices Conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies. Can only be sold in conjunction with services supported on CALNET

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
917	Professional Services - Principal Architect II - Standard Hours/Regular Rate (8am - 5pm local time)	PRNA0002	Multi-Skillset Individual providing network design function and oversight. Pre or Post-implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices. Works with customer to integrate legacy technology, Conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies. Can only be sold in conjunction with services supported on CALNET

20.2.9.4 MPLS Backup Options

If the Contractor provides LTE backup services for Managed Equipment the Contractor shall use current CALNET Cellular providers. All Bidders are required to indicate below that they understand the requirement regardless of their intent to provide LTE backup services.

Bidder understands this requirement and shall meet or exceed it? Yes

20.2.10 Additional Unsolicited MPLS Services and Features

The Bidder may offer additional unsolicited MPLS Services and Features in Table 20.2.10.

Table 20.2.10 – Unsolicited MPLS Services and Features

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1			
2			
3			

20.3 OTHER SERVICES

20.3.1 Hourly Rates for Services

The hourly classifications of hours worked for services described in this Section will be as follows:

1. Regular Hours – Hours worked between 8:00AM and 4:59PM, Monday through Friday.
2. Overtime Hours – Hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday.
3. Sunday and Holiday Hours – Any hours worked on Sunday or State of California holidays.

When coordinated scheduling for projects between the State and the Contractor occurs, the State and the Contractor may mutually agree that hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday and any hours worked on Sunday or State of California holidays can be classified as Regular Hours in accordance with the State of California Department of Industrial Relations.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.3.2 Services Related Infrastructure (SRI)

The Contractor shall offer infrastructure service as defined below.

20.3.2.1 Extended Demarcation Wiring Services

The Contractor shall provide Extended Demarcation (Extended Demarc) wiring to support the services covered by this IFB Category for all of the Customer occupied buildings where services under this Contract are being offered. Extended Demarc wiring includes wire/cable related activities required to extend the demarcation point to the Customer defined termination location or cross-connect point from the Contractor's Minimum Point of Entry (MPOE).

Bidder understands this Requirement and shall meet or exceed it? Yes

Extended Demarc wiring shall include the necessary wire/cable, connectors, jumpers, panel, and jack. Extended Demarc wiring shall also include associated trouble shooting, testing and labeling. Extended Demarc wiring is limited to the following:

1. Installation of cabling for extending services from the MPOE location to the Customer's point of utilization;
2. Installation of cross-connects or rearrangement of existing jumpers;
3. Identification and testing of existing cabling beyond the MPOE to the Customer's Equipment location; and,
4. Installation intervals shall be in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs associated with that service.

Bidder understands this Requirement and shall meet or exceed it? Yes

The Contractor shall not be required to complete Extended Demarc wiring from the MPOE to the extended Demarc location if:

1. The wire/cable pathway is blocked, and cannot be cleared without significant effort or damage to the Customer site;
2. The wire/cable pathway is in an asbestos or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Upon written release provided by either the Customer or by the CALNET Program.

The Bidder shall provide a price in the Cost Worksheets for all labor and materials required for Extended Demarc wiring necessary to complete the provisioning of one Demarc extension as described herein. The Bidder shall provide one price for each media identified.

Wiring will be installed according to industry Standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, and Uniform Building Cabling/Wiring current at the time of this IFB and as periodically updated by the CALNET Program. Additionally, all wiring installation and maintenance activities will be in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

Bidder understands this Requirement and shall meet or exceed it? Yes

Bidder shall provide the Extended Demarcation Wiring Services described in Table 20.3.2.1

Table 20.3.2.1 – Extended Demarcation Wiring Services

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Extended Demarcation -Copper – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	DMCP0001	**Yes**
2	Extended Demarcation -Copper – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	DMCP0002	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
3	Extended Demarcation -Copper – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	DMCP0003	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
4	Extended Demarcation -Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DCMC0001	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
5	Extended Demarcation -Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DCMC0002	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
6	Extended Demarcation -Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DCMC0003	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
7	Extended Demarcation - Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DOFL0001	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
8	Extended Demarcation - Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DOFL0002	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DOFL0003	**Yes**

20.3.2.2 Unsolicited Services Related Infrastructure

Bidder may offer additional unsolicited Services Related Infrastructure in Table 20.3.2.2.

Table 20.3.2.2 – Unsolicited Services Related Infrastructure

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1			

20.3.3 Services Related Hourly Support

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractors responsibilities. Work performed under this Section is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

Bidder understands this Requirement and shall meet or exceed it? Yes

In Cost Worksheet 20.3.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten hours per dispatch/occurrence.

Bidder understands this Requirement and shall meet or exceed it? Yes

The Contractor shall offer emergency restoration services as detailed in Table 20.3.3

Table 20.3.3 – Services Related Hourly Support

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Bidder's Product Description: Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	SRVR0000	**Yes**
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Bidder's Product Description: Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	SRVO0000	**Yes**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Bidder's Product Description: Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	SRVH0000	**Yes**

20.4 SERVICE LEVEL AGREEMENTS (SLA)

The Contractor shall provide Service Level Agreements (SLAs) as defined below. The intent of this Section is to provide Customers, CALNET Program and the Contractor with requirements that define and assist in the management of the SLAs. This Section includes the SLA formats, general requirements, stop clock conditions, and the Technical SLAs for the services identified in this solicitation.

20.4.1 Service Level Agreement Format

The Contractor shall adhere to the following format and include the content as described below for each Technical SLA added by the Contractor throughout the Term of the Contract:

1. SLA Name – Each SLA Name must be unique;
2. Definition - Describes what performance metric will be measured;
3. Measurements Process - Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and

what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;

4. Service(s) - All applicable services will be listed in each SLA;
5. Objective(s) – Defines the SLA performance goal/parameters; and,
6. Rights and Remedies
7. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
8. Monthly Aggregated Measurements: Rights and remedies are paid once during the bill cycle based on an aggregate of events over a defined period of time.

The Contractor shall proactively apply a credit or refund when a SLA objective is not met. CALNET SLA Rights and Remedies do not require the Customer to submit a request for credit or refund.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.4.2 Technical Requirements versus SLA Objectives

Sections 20.2 (MPLS Services) and 20.3 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

Committed SLA objectives are minimum parameters which the Contractor shall be held accountable for all rights and remedies throughout Contract Term.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.4.3 Methods of Outage Reporting: Customer or Contractor

There are two methods in which CALNET service failures or quality of service issues may be reported and Contractor trouble tickets opened: Customer reported or Contractor reported.

The first method of outage reporting results from a Customer reporting service trouble to the Contractor's Customer Service Center via phone call or opening of a trouble ticket using the on-line Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4, Trouble Ticket Reporting Tool (TTRT)).

The second method of outage reporting occurs when the Contractor opens a trouble ticket as a result of network/system alarm or other method of service failure

identification. In each instance the Contractor shall open a trouble ticket using the Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) and monitor and report to Customer until service is restored.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.4.4 Bidder Response to Service Level Agreements

Many of the Service Level Agreements described below include multiple objective levels – Basic, Standard and Premier. Bidders shall indicate one specific objective level they are committing to for each service in space provided in the "Objective" Section of each SLA description.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.4.5 Contractor SLA Management Plan

Within 90 calendar days of Contract award, the Contractor shall provide CALNET CMO with a detailed SLA Management Plan that describes how the Contractor will manage the Technical SLAs for services in this IFB. The SLA Management plan shall provide processes and procedures to be implemented by the Contractor. The SLA Management Plan shall define the following:

1. Contractor SLA Manager and supporting staff responsibilities;
2. Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;
3. Creation and delivery of SLA Reports (SOW Business Requirements Section G.10.5). The Contractor shall include a sample report in accordance with SOW Business Requirements Section G.10.5, SLA Reports for the following: SLA Service Performance Report (SOW Business Requirements Section G10.5.1), SLA Provisioning Report (SOW Business Requirements Section G.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements Section G.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements Section G.10.5.4). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET Program via the Private Oversight Website (SOW Business Requirements Section G.10.2);
4. SLA invoicing credit and refund process;

5. Contractor SLA problem resolution process for SLA management and SLA reporting. The Contractor shall provide a separate process for Customers and CALNET Program; and,
6. Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for Customer and CALNET Program.

Bidder understands this Requirement and shall meet or exceed it? Yes

20.4.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET Technical SLAs (Section 20.4.8):

1. With the exception of the Provisioning SLA (Section 20.4.8.9), the total SLA rights and remedies for any given month shall not exceed the sum of 100% of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
2. If a circuit or service fails to meet one or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET SLAs and remedies for services provided by Subcontractors and/or Affiliates;
4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA; and,
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges.

Bidder understands this requirement and shall meet or exceed it? Yes

6. The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives.

Bidder understands this requirement and shall meet or exceed it? Yes

7. The Contractor shall proactively credit all rights and remedies to the Customer within 60 calendar days of the trouble resolution date on the trouble ticket or within 60 calendar days of the Due Date on the Service Request for the Provisioning SLA.

Bidder understands this requirement and shall meet or exceed it? Yes

8. To the extent that Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), The State will be entitled to the same rights and/or remedies therein. The Contractor shall present the SLAs to CALNET Program for possible inclusion via amendments;
9. The Contractor shall apply CALNET DNCS SLAs and remedies to services provided in all areas the Contractor provides service and/or open to competition (as defined by the CPUC). Any SLAs and remedies negotiated between Contractor and Incumbent Local Exchange Carriers in territories closed to competition shall be passed through to the CALNET DNCS Customer;
10. The election by CALNET Program of any SLA remedy covered by this Contract shall not exclude or limit CALNET Program or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;
13. The Customer Escalation Process and/or the CALNET CMO Escalation Process shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
14. Trouble reporting and restoration shall be provided 24x7 for CALNET services;

Bidder understands this requirement and shall meet or exceed it? Yes

15. SLAs apply 24x7 unless SLA specifies an exception;
16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with SOW Business Requirements Section G.6 (Billing and Invoicing);

Bidder understands this requirement and shall meet or exceed it? Yes

17. The Contractor shall provide a CALNET DNCS SLA Manager responsible for CALNET DNCS SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET Program SLA oversight, report issues, and problem resolution concerns. The CALNET DNCS SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;
18. The Contractor shall provide Customer and CALNET Program support for SLA inquiries and issue resolution; and,
19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET DNCS Customer.

Bidder understands the requirements and shall meet or exceed them? Yes

20.4.7 Trouble Ticket Stop Clock Conditions

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 20.4.7.a, which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) or Customer provisioning Service Request for each application of an SCC.

Bidder understands this requirement and shall meet or exceed it? Yes

The Contractor shall not consider "cleared while testing" or "no trouble found" as a SCC.

Bidder understands this requirement and shall meet or exceed it? Yes

Contractor observation timeframes, not requested by End-User, after incident resolution shall not be included in Outage Duration reporting.

Bidder understands this requirement and shall meet or exceed it? Yes

Note: The Glossary (SOW Appendix A) defines term "End-User" as the "individual within an Entity that is receiving services and/or features provided under the Contract."

Table 20.4.7.a – Stop Clock Conditions

Line Item	Stop Clock Condition (SCC)	SCC Definition
1	END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User's request is documented and time stamped in the Contractor's trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.
2	OBSERVATION	Time after a service has been restored but End-User request ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the Service has not been restored.
3	END-USER NOT AVAILABLE	Time after a service has been restored but End-User is not available to verify that the Service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between Contractor's reasonable attempt to notify the End-User that Contractor believes the service has been restored and the time the End-User notifies the Contractor that the Service has not been restored.
4	WIRING	Restoration cannot be achieved because the problem has been isolated to wiring that is not maintained by Contractor or any of its Subcontractors or Affiliates. If it is later determined the wiring is not the cause of failure, the SCC shall not apply.
5	POWER	Trouble caused by a power problem outside of the responsibility of the Contractor.

Line Item	Stop Clock Condition (SCC)	SCC Definition
6	CUSTOMER PROVISIONING DELAY	Delays to Provisioning caused by lack of Customer's building entrance Facilities, conduit structures that are the Customer's responsibilities or Extended demarcation wiring. If the Service Providing Contractor has been contracted by the Customer for extended demarcation, this SCC shall not apply to missed dates/times. The Customer Provisioning Delay SCC is restricted to Provisioning SLAs only.
7	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following: a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification; c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; or, d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem. If it is determined later that the cause of the problem was not at the site in question, then the Access SCC shall not apply.

Line Item	Stop Clock Condition (SCC)	SCC Definition
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET DNCS service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.

Line Item	Stop Clock Condition (SCC)	SCC Definition
14	FORCE MAJEURE	Force Majeure events, as defined in the eVAQ General Provisions - Telecommunications, Section 28 (Force Majeure).
15	CUSTOMER ENVIRONMENTAL	An outage directly caused by customer premise environmental conditions, which are outside the control and responsibility of the Contractor. This includes a non-secured location, excessive heat or lack of cooling. If determined later that the environmental conditions were not the cause of the service outage, or a result of the Contractor modifying Contractor provided equipment without Customer's approval, the Customer Environmental SCC will not apply.

Bidder understands the requirements and shall meet or exceed them? Yes

The Contractor shall provide and manage the following Technical SLAs.

20.4.8 Technical Service Level Agreements (SLAs)

20.4.8.1 Availability (M-S)

SLA Name: Availability

Definition:

The percentage of time a CALNET MPLS Data Networks service is fully functional and available for use each calendar month.

Measurement Process:

The monthly Availability Percentage shall be based on the accumulative total of all Unavailable Time derived from all trouble tickets closed, for the individual affected service (per Circuit ID or Service ID), per calendar month. The monthly Availability Percentage equals the Scheduled Uptime per month less Unavailable Time per month divided by Scheduled Uptime per month multiplied by 100. Scheduled Uptime is based on 24 x number of days in the month. All Unavailable Time applied to other SLAs, which results in a remedy, will be excluded from the monthly accumulated total.

Measurement Process for VSAT service only:

The measurement of Availability is between the VSAT Router at customer premise and the router at Verizon Teleport VSAT services using .<1.2 Meter Antenna are excluded from this SLA The Availability measurement will begin 24 hours after the opening of a trouble ticket for Portable Quick/Auto Deploy and VSAT Fixed Router/Modem that are located outside 150 driving miles from the service cities (Anaheim, Costa Mesa, Fallbrook, Folsom, Lakewood, Lodi, Long Beach, Modesto, Ontario, Redding, Riverside, Rocklin, Sacramento, Santa Ynez, Stockton, Suisun City, Torrance)

Services:

MPLS
VNS
VSAT
MAAS
SCI
Managed Routers
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization
VSAT

Objective A:

The objective will be based on the access type identified in the table below:

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
DS1	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	P
Ethernet	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
VNS	≥ 99.2%	≥ 99.5%	≥ 99.8%	S

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
VSAT	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
MAAS	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
SCI	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
Managed Routers	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
MPLS Wireless Backup	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
Managed WAN	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
Managed WAN Optimization	≥ 99.2%	≥ 99.5%	≥ 99.8%	S

Rights and Remedies:

1. Per Occurrence:
    - N/A
2. Monthly Aggregated Measurements:
    - First month to fail to meet the committed SLA objective shall result in a 15% credit or refund of the TMRC.
    - The second consecutive month to fail to meet the committed SLA objective shall result in a 30% credit or refund of TMRC.
    - Each additional consecutive month to fail to meet the committed SLA objective shall result in a 50% credit or refund of the TMRC.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.2 Catastrophic Outage 1 (CAT 1) (M-S)

SLA Name: Catastrophic Outage 1 (CAT 1)

Definition:

The total loss of service at a single address based on a common cause resulting in one or more of the following:

Failure of two or more service types, or
Failure of ten access circuits, or

Failure of a single MPLS port or access circuit with a transport speed greater than or equal to 200 Mbps.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by a Customer, or the Contractor, whichever occurs first. The Contractor shall open a trouble ticket for each service (Circuit ID or Service ID) affected by the common cause. Each End-User service is deemed out of service from the first notification until the Contractor determines the End-User service (Circuit ID or Service ID) is restored minus SCC. Any service reported by a Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MPLS
VNS
MAAS
Managed Routers
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
VNS	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
MAAS	≤ 3 hours	≤ 2 hours	≤ 1 hour	P

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Managed Routers	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
MPLS Wireless Backup	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
Managed WAN	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
Managed WAN Optimization	≤ 3 hours	≤ 2 hours	≤ 1 hour	P

Rights and Remedies:

1. Per Occurrence:
    - 100% credit or refund of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.3 Catastrophic Outage 2 (CAT 2) (M-S)

SLA Name: Catastrophic Outage 2 (CAT 2)

Definition:

Any service affecting failure in the Contractor's (or Subcontractor's or Affiliate's) network up to and including the Provider Edge (PE) equipment.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from the outage-causing event or the opening of a trouble ticket by the Customer or Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall compile a list for each End-User service affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the

network equipment/system or a Customer reported trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MPLS
VNS
MAAS
SCI
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
VNS	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
MAAS	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
SCI	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
MPLS Wireless Backup	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
Managed WAN	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P
Managed WAN Optimization	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P

Rights and Remedies:

1. Per Occurrence:
    - 100% credit or refund of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.3.a Catastrophic Outage 2 (CAT 2) (M-S)

SLA Name: VSAT Catastrophic Outage 2 (CAT 2)

Definition:

Definition: Any component failure that results in loss of service to 15 or more sites.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from a service impacting event or the opening of a trouble ticket by the Customer or Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall compile a list for each End-User service affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID) basis from information recorded from the network equipment/system or Customer reported trouble ticket. Each End-User service (Circuit ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

VSAT

Objectives:

The objective restoral time shall be less than 12 hours.

Rights and Remedies:

1. Per Occurrence:
    - 100% credit or refund of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.4 Catastrophic Outage 3 (CAT 3) (M-S)

SLA Name: Catastrophic Outage 3 (CAT 3)

Definition:

The total loss of more than one CALNET DNCS service type in a central office, or the loss of any service type on a system wide basis.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer or the Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall open a trouble ticket and compile a list for each End-User service (Circuit ID or Service ID) affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the network equipment/system or trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MPLS
VNS

MAAS
SCI
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization
VSAT

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS	≤ 30 Minutes	N/A	≤ 15 Minutes	P
VNS	≤ 30 Minutes	N/A	≤ 15 Minutes	P
MAAS	≤ 30 Minutes	N/A	≤ 15 Minutes	P
SCI	≤ 30 Minutes	N/A	≤ 15 Minutes	P
MPLS Wireless Backup	≤ 30 Minutes	N/A	≤ 15 Minutes	P
Managed WAN	≤ 30 Minutes	N/A	≤ 15 Minutes	P
Managed WAN Optimization	≤ 30 Minutes	N/A	≤ 15 Minutes	P

Rights and Remedies:

1. Per Occurrence:
    - 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) not meeting the committed objective for each Cat 3 fault.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.4.a Catastrophic Outage 3 (CAT 3) (M-S)

SLA Name: VSAT Catastrophic Outage 3 (CAT 3)

Definition:

The total loss of any service type on a system wide basis.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall open a trouble ticket and compile a list of each End-User service (Circuit ID) affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID) basis from information recorded in the trouble ticket. Each End-User service (Circuit ID) is deemed out of service from the first notification until the Contractor determines service is restored. Any service reported by End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

VSAT

Objectives:

The objective restoral time shall be less than 4 hours.

Rights and Remedies:

1. Per Occurrence:
    - 100 percent of the TMRC and ten (10) Business Days of the ADUC (when applicable) for each End-User service not meeting the committed occurrence objective for each Cat 3 fault.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.5 Delay – Round Trip Transmission for MPLS Services (M-S)

SLA Name: Delay – Round Trip Transmission for MPLS Services

Definition:

The average round trip transfer delay measured from the Customer Edge (CE) to the remote CE back to CE (Site A to Site Z to Site A) within the geographic confines of the state of California.

Measurement Process:

The End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Customer suspects the delay is not meeting the committed level. CALNET CMO shall determine the sample interval, provided that a minimum of 100 pings or more shall constitute a test. The Contractor shall provide timely verification, consistent with industry standards. Trouble tickets opened as Delay – Round Trip Transmission for MPLS Services shall not count in availability or Time to Repair measurements unless and until the End-User reports service as unusable.

Service(s):

MPLS

Objective(s):

Based on a 1,000 byte ping:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS ≥ 1.536 Mbps to < 10 Mbps	< 400ms	N/A	< 340ms	P
MPLS ≥ 11 Mbps to < 100 Mbps	< 400ms	N/A	< 340ms	P

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS ≥ 100 Mbps	< 400ms	N/A	< 340ms	P

Rights and Remedies:

1. Per Occurrence:
    - N/A
2. Monthly Aggregated Measurements:
    - 25% credit or refund of the TMRC per occurrence for the reported service.
    - The second consecutive month service fails to meet the committed SLA objectives shall result in a 35% rebate of TMRC.
    - Each additional consecutive month service fails to meet the committed SLA objective shall result in a 50% rebate of the TMRC.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.5.a VSAT Service Network Packet Delivery / Transit Delay (D)

SLA Name: VSAT Service Network Packet Delivery / Transit Delay

Measurement Process:

The VSAT latency values are derived from samples collected within the Satellite Network Management System (NMS) every 20 seconds. They are aggregated to a 5 minute resolution for each individual circuit. Then for each VSAT circuit that is in primary or backup active traffic carrying mode (Not in backup / idle mode) within the network during each 5 minute period then the latency is aggregated to represent the overall network performance for that 5 minute period and then the five minute results are then averaged over the month to provide a monthly average.

Definition:

Network Packet Delivery and Transit Delay are measured from the VSAT hub located at the Verizon Business teleport to the customer's VSAT modem and back to the VSAT hub.

Services:

VSAT

Objectives:

Does not apply for <1.2 Meter Antennas

Region	Antenna/BUC Size	Maximum Throughput	Network Transit Delay (round trip) Milliseconds (Less or equal to)	Network Packet Delivery (Greater or equal to)
CA	1.2m/3w 1.8m/3w	<= 512 Kbps	800	99%
CA	1.2m/4w 1.8m/3w	<= 1024 Kbps	800	99%
CA	1.2m/8W 1.8m/4w 2.4m/4w	<= 2048 Kbps	800	99%
CA	1.8m/6w 2.4m/6w	<= 3 Mbps	800	99%
CA	1.2m/16w 1.8m/8w 2.4m/8w	<= 4 Mbps	800	99%

Rights and Remedies:

1. Per Occurrence:
    - N/A
2. Monthly Aggregated Measurements:

- For each Month in which VzB fails to meet the Network Packet Delivery or Network Transit Delay SLA, customer us eligible for a credit equal to 1/30th of the TMRC for the VSAT service.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.6 Excessive Outage (M-S)

SLA Name: Excessive Outage

Definition:

Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.

Measurement Process:

This SLA is based on trouble ticket Unavailable Time. The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a partial or complete service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.

Services:

MPLS
VNS
MAAS
SCI
Managed Routers
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization
VSAT

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	16 Hours	12 Hours	8 Hours	P
VNS	16 Hours	12 Hours	8 Hours	P
MAAS	16 Hours	12 Hours	8 Hours	P
SCI	16 Hours	12 Hours	8 Hours	P
Managed Routers	16 Hours	12 Hours	8 Hours	P
MPLS Wireless Backup	16 Hours	12 Hours	8 Hours	P
Managed WAN	16 Hours	12 Hours	8 Hours	P
Managed WAN Optimization	16 Hours	12 Hours	8 Hours	P
VSAT	48 hours			

Rights and Remedies:

1. Per Occurrence:
    - 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.
    - Upon request from the Customer or the CALNET Program, the Contractor shall provide a briefing on the excessive outage restoration.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.7 Managed Service Proactive Notification (M-S)

SLA Name: Managed Service Proactive Notification

Definition:

The proactive outage notification provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed router or managed IP enabled device service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET CMO.

An Outage is defined as an unscheduled period in which the managed router service is interrupted and unavailable for use by Customer for 60 continuous seconds or more than 60 cumulative seconds within a 15-minute period measured by the Contractor.

Measurement Process:

The Outage Duration start shall be determined by the first Contractor network alarm resulting from the outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. The Contractor has fifteen minutes (Notification Period) to notify the Customer from the start point of the first network alarm. The Contractor is in compliance with the proactive outage notification SLA if the Customer opened the trouble ticket prior to the network alarm or Customer is notified by the Contractor within the Notification Period.

Services:

MPLS Access Transport Speeds
MPLS Port Transport Speeds
MPLS Port, Access and Layer 3 Bundled Transport Speeds
VNS
Managed Routers
MPLS Wireless Backup
VSAT (Except Quick Deploy/Auto-Pointing Systems)

Objectives:

15 Minutes

Rights and Remedies:

1. Per Occurrence:
    - Customer will receive a credit or refund equal to 10% of the TMRC for each Contractor Managed Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period.

2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.8 Notification

SLA Name: Notification

Definition:

The Contractor notification to the CALNET Program and designated stakeholders in the event of a CAT 2 or CAT 3 failure, terrorist activity, threat of natural disaster, or actual natural disaster which results in a significant loss of telecommunication services to CALNET DNCS End-Users or has the potential to impact services in a general or statewide area. The State understands initial information requiring the nature of the outage may be limited.

Measurement Process:

The Contractor shall adhere to the Network Outage Response requirements (SOW Business Requirements Section G.3.3, Network Outage Response) and notify the CALNET Program and designated stakeholders for all CAT 2 and CAT 3 Outages or for network outages resulting in a significant loss of service. Notification objectives will be based on the start time of the outage failure determined by the opening of a trouble ticket or network alarm, whichever occurs first. For events based on information such as terrorist activity or threat of natural disaster, the Contractor shall notify the CALNET Program and designated stakeholder when information is available for dissemination to the Customers.

Services:

All services

Objectives:

Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify the CALNET Program and designated stakeholders using a method defined in SOW Business Requirements, Network Outage Response.

At 60-minute intervals, updates shall be given on the above-mentioned failures via the method defined in SOW Business Requirements, Network Outage Response.

This objective is the same for Basic, Standard and Premier Commitments.

Rights and Remedies:

1. Per Occurrence:
    - Senior Management Escalation
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.9 Provisioning (M-S)

SLA Name: Provisioning

Definition:

Provisioning shall include new services, moves, adds and changes, completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor documented on the Contractor's order confirmation notification or Contracted Project Work SOW in accordance with SOW Business Requirements Section G.2.5.4, Provisioning and Implementation. The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Request(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Timeline per SOW Business Requirements Section G.8, Contracted Service Project Work.

Provisioning SLAs have two objectives:

Objective 1: Individual service installation; and,
Objective 2: Successful Install Monthly Percentage by service type.
Note: Provisioning timelines include extended demarcation wiring when appropriate.

Measurement Process:

Objective 1: Individual Service Installations: Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor. This objective requires the Contractor to meet the due date for each individual service installation. This includes individual circuit/service level installations for Coordinated and Managed Projects.

Objective 2: Successful Install Monthly Percentage per Service Type: The Contractor shall sum all individual installations per service, as listed below, meeting the objective in the measurement period and divide by the sum of all individual service installations due per service in the measurement period and multiply by 100 to equal the percentage of service installations completed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.

Services:

Features must be installed in conjunction with the service except when listed below:

Service (Features must be installed with service except when listed below.	Committed Interval Days	Coordinated/Managed Project
MPLS Access Transport Speeds	35	Coordinated/Managed Project
MPLS Port Transport Speeds	35	Coordinated/Managed Project
MPLS Port, Access and Layer 3 Bundled Transport Speeds	45	Coordinated/Managed Project
VNS	45	Coordinated/Managed Project
MAAS	45	Coordinated/Managed Project
SCI	35	Coordinated/Managed Project
Managed Routers	Managed Project	Coordinated/Managed Project
MPLS Wireless Backup	Managed Project	Coordinated/Managed Project
Managed WAN	45	Coordinated/Managed Project
Managed WAN Optimization	45	Coordinated/Managed Project
VSAT	Managed Project	Coordinated/Managed Project

Objectives:

Objective 1: Individual service installation: Service provisioned on or before the due date per installation Service Request.
Objective 2: Monthly Average percent by service type:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS Access Transport Speeds	≥ 90%	N/A	≥ 95%	P
MPLS Port Transport Speeds	≥ 90%	N/A	≥ 95%	P
MPLS Port, Access and Layer 3 Bundled Transport Speeds	≥ 90%	N/A	≥ 95%	P
VNS	≥ 90%	N/A	≥ 95%	P
MAAS	≥ 90%	N/A	≥ 95%	P
SCI	≥ 90%	N/A	≥ 95%	P
Managed Routers	≥ 90%	N/A	≥ 95%	P
MPLS Wireless Backup	≥ 90%	N/A	≥ 95%	P
Managed WAN	≥ 90%	N/A	≥ 95%	P
Manged WAN Optimization	≥ 90%	N/A	≥ 95%	P
VSAT	≥ 90%	N/A	≥ 95%	P

Rights and Remedies:

1. Per Occurrence:
    - Objective 1: Individual service installations: 50% of installation fee credited to the Customer for any missed committed objective.
2. Monthly Aggregated Measurements:
    - Objective 2: 100% of the installation fee credited to the Customer for all service installations (per service type) that did not complete within the committed objective during the month if the Successful Install Monthly Percentage is below the committed objective.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.10 Time to Repair (TTR)(M-S)

SLA Name: Time To Repair (TTR)

Definition:

Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.

Measurement Process:

This SLA is based on trouble ticket Unavailable Time. The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a partial or complete service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.

Services:

MPLS
VNS
MAAS
SCI
Managed Routers
MPLS Wireless Backup
Managed WAN
Managed WAN Optimization

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	6 Hours	5 Hours	4 Hours	S
VNS	6 Hours	5 Hours	4 Hours	S

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAAS	6 Hours	5 Hours	4 Hours	S
SCI	6 Hours	5 Hours	4 Hours	S
Managed Routers	6 Hours	5 Hours	4 Hours	S
MPLS Wireless Backup	6 Hours	5 Hours	4 Hours	S
Managed WAN	6 Hours	5 Hours	4 Hours	S
Managed WAN Optimization	6 Hours	5 Hours	4 Hours	S

Rights and Remedies:

1. Per Occurrence:
    - First month the service fails to meet the committed SLA objective shall result in a 25% credit or refund of TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.
2. Monthly Aggregated Measurements:
    - N/A

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.11 Unsolicited Service Enhancement SLAs

All unsolicited service enhancements shall be considered a feature of the service, and therefore shall be included as such under the SLAs as defined in this Section.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.12 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 20.3.8 for each unsolicited offering determined by the CALNET Program not to be a feature of a service or a component of an unbundled service identified in the technical

requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

Bidder understands this requirement and shall meet or exceed it? Yes

20.4.8.13 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in Section 20.4.8.

Bidder understands this requirement and shall meet or exceed it? Yes