



**AT&T**

**IFB STPD 12-001-B, C3-B-12-10-TS-01**

CalNet 3, Category 3: Metropolitan Area Network Ethernet

*Volume 2: Response to Unique Category or Subcategory Requirements*  
*SOW Technical Requirements Response*

**Amendment #1, Rev. June 4, 2015**

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# **Exhibit 8: Contractor's License Information**

Attached is Exhibit 8: Contractor's License Information.



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**EXHIBIT 8: CONTRACTOR’S LICENSE INFORMATION**

(Installation Services Only)

For Category/Subcategory: 3: MAN Ethernet

Name of Bidder: AT&T Corp.

Bidder shall complete the applicable Contractor’s license information below in accordance with the Contractor’s State License Board, Department of Consumer Affairs. A Contractor’s license of appropriate Class C-7, Low Voltage Systems Contractor, is required before any Bidder can contract business (e.g. submit a bid) which includes the installation of cable and wiring, and minor electrical modification. In addition, if structural modifications are required, a Class B, General Building Contractor, license is required. Licensee must be in the name of the firm or a Responsible Managing Employee. See IFB Section 2.3.6, Contractor’s License.

**CONTRACTOR**

Class C-7 and C-10 License No: 760249  
 Licensee: Pacific Bell Telephone Company Expiration Date: 03/31/2015  
 Relationship of Licensee to Contractor: Wholly Owned Subsidiary

**SUBCONTRACTOR 1**

Class \_\_\_\_\_ License No: \_\_\_\_\_  
 Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
 Relationship of Licensee to Subcontractor: \_\_\_\_\_

**SUBCONTRACTOR 2**

Class \_\_\_\_\_ License No: \_\_\_\_\_  
 Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
 Relationship of Licensee to Subcontractor: \_\_\_\_\_

(Use additional sheets if necessary.)





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# **Exhibit 10: Bidding Preferences and Incentives**

Attached is the completed and signed Exhibit 10.



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**Exhibit 10: BIDDING PREFERENCES AND INCENTIVES**

For Category/Subcategory: 3: MAN Ethernet

ALL BIDDERS: COMPLETE ALL SECTIONS BELOW AND SUBMIT WITH YOUR PROPOSAL.

**1. SMALL BUSINESS PREFERENCE**

Bidder must check the appropriate box from the choices below.

- I am a DGS certified Small Business and claim the Small Business Preference.  
My DGS Small Business certification number is: \_\_\_\_\_
- I have recently filed for DGS Small Business preference but have not yet received certification, but I am claiming the Small Business preference.
- I am not a DGS certified Small Business, but 25% or more of the revenue from the award will go to DGS certified Small Business Subcontractors performing a Commercially Useful Function and therefore I am claiming the preference.  
*Bidder must complete and submit Exhibit 12, GSPD-05-105 Bidder Declaration, indicating the percentage of the revenue that will be received by each DGS certified Small Business Subcontractor.*  
*Bidder must complete and submit an Exhibit 14, Commercially Useful Function Statement, for each Small Business subcontractor.*
- I am not claiming the DGS Small Business preference.

**2. DVBE INCENTIVE**

Bidder must check the appropriate box from the choices below.

- I am a DGS certified DVBE. A copy of my STD. form 843 is attached.
- I have recently filed for DGS DVBE certification, but have not yet received certification.
- I am not a DGS certified DVBE, but a percentage of the revenue will be going to DGS certified DVBE Subcontractors performing a Commercially Useful Function, and therefore I am claiming the DVBE incentive.  
*Bidder must submit a complete Exhibit 12, GSPD-05-105, Bidder Declaration, indicating the percentage of the revenue that will be received by each DGS certified DVBE Subcontractor.*  
*Bidder must also submit an Exhibit 11, STD 843 DVBE Declarations, for each DVBE Subcontractor, signed by the DVBE owner/manager.*  
*Bidder must complete and submit an Exhibit 14, Commercially Useful Function Statement, for each DVBE subcontractor or supplier.*

X



I am not claiming the DVBE incentive.



**EXHIBIT 10, CONTINUED**

**3. ADDITIONAL BIDDING PREFERENCES**

The Bidder shall check the appropriate box or boxes from the choices below.

- I am not claiming the TACPA preference, the EZA preference, or the LAMBRA preference.
- I am claiming the TACPA bidding preference.  
*Bidder must submit Exhibit 13, STD 830.*

Name of Bidder: AT&T Corp.

Signature and Date: *Mark R...* February 18, 2014



# **Exhibit 11: STD 843, DVBE Declarations**

AT&T is not claiming a DVBE incentive



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## **Exhibit 12: GSPD 05-105, Bidder Declaration**

AT& is not claiming SB preference using Subcontractors, nor claiming a DVBE incentive, nor will have any Subcontractors that will receive 15% or more revenue.



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# **Exhibit 13: STD 830, TACPA Preference Request**

AT&T is not claiming TACPA preference.



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# **Exhibit 14: Commercially Useful Function Statement**

Attached is a copy of AT&T's completed Exhibit 14.



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**EXHIBIT 14: COMMERCIALLY USEFUL FUNCTION STATEMENT**

All certified small business, micro business, and/or DVBE Contractors, subcontractors or suppliers must meet the commercially useful function requirements under Government Code (GC) Section 14837(d)(4)(A) (for SB) and Military and Veterans Code (MVC) Section 999(b)(5)(B) (for DVBE).

Please answer the following questions, as they apply to your company for the goods and services being acquired in this solicitation.

CALNET 3 Category or Subcategory being bid: Category 3

Subcontractor Name:

Mark all that apply: DVBE:  Small Business:  Micro Business:

1.	Will the subcontractor be responsible for the execution of a distinct element of the resulting CALNET Contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.	Will this subcontractor be actually performing, managing, or supervising an element of the resulting CALNET Contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3.	Will this subcontractor be performing work on the resulting CALNET Contract that is normal for its business, services, and functions?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.	Will there be any further subcontracting that is greater than that expected to be subcontracted by normal industry practices for the resulting CALNET Contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
5.	Will this subcontractor be responsible, with respect to products, inventories, materials, and supplies required for the contract, for negotiating price, determining quality and quantity, ordering, installing, if applicable, and making payment?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

A response of “No” in questions 1 - 3 or a response of ”Yes” in question 4, may result in your claim for Small Business Preference or DVBE Incentive being deemed non-responsive and disqualified.

The bidder must provide a written statement below detailing the role, services and goods the subcontractor(s) will provide to meet the commercially useful function requirement.

AT&T is not using any DVBE, Small Business, and Micro Business Contractors, subcontractors or suppliers in the delivery of services related to this Category.





At the State’s option prior to award, bidders may be required to submit additional written clarifying information.

Per MVC Section 999.9(a)(6) and GC 14842.5 (a)(6) it is unlawful for a person to knowingly and with intent to defraud, fraudulently represent that a commercially useful function is being performed by a disabled veteran business enterprise in order to obtain or retain a bid preference or a state contract, and that doing so shall subject the person to the penalties stated in MVC Section 999.9 and GC 14842.5.

By signing this form, the undersigned bidder certifies that the Certified Small Business or DVBE satisfies the Commercially Useful Function requirement, and will provide the role, services, and/or goods stated above.

Signature of Company  
Representative:

*Mark Roese*

Printed/Typed Name and Title of

Mark Roese, Executive Sales Director

Company Representative:





# Category 3 – Metropolitan Area Network Ethernet

## 3.1 Overview

This Category 3 IFB provides the State's solicitation for best value solutions for Metropolitan Area Network Ethernet (MAE) services. This IFB describes the CALNET 3 technical requirements necessary to support the CALNET 3 program requirements.

This IFB will be awarded to Bidders that meet the award criteria as described in IFB Section 4. The CALNET 3 Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET 3 Contract Management and Oversight (CALNET 3 CMO).

### 3.1.1 Bidder Response Requirements

Throughout this IFB, Bidders are required to acknowledge acceptance of the requirements described herein by responding to one (1) of the following:

Example A (for requirements that require confirmation that the Bidder understands and accepts the requirement):

"Bidder understands the Requirement and shall meet or exceed it? Yes\_\_\_\_\_ No\_\_\_\_\_"

Or,

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

"Bidder understands the requirements in Section xxx and shall meet or exceed them? Yes\_\_\_\_\_ No\_\_\_\_\_"

Description:"

### 3.1.2 Designation of Requirements

All Technical Requirements specified in this IFB Section are Mandatory and must be responded to as identified in IFB Section 3.4.2.5 by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)". The State will have the option of whether or not to include each item in the Contract, based on the best interest of the State. Furthermore, Customers will have the option whether or not to order services or features included in the Contract. Service Requests for some CALNET 3 services or features may require CALNET 3 CMO approval.

Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the Cost Worksheets. Items not listed in the Cost Worksheets will not be billable by the Contractor. If additional



unsolicited items include the features described in the IFB and are not included as billable in the Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

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

### **3.1.3 Pacific Time Zone**

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

## **3.2 Ethernet Services**

Contractors shall provide Ethernet network services in specific geographic locations throughout the state. The service shall provide for the transmission of digital signals in a dedicated high capacity channel. The service shall be available in multiple configurations, enabling Customers to connect two (2) or more Local Area Networks (LANs) at the native speed of the LAN backbone.

### **3.2.1 Metropolitan Area Network Ethernet (MAE) Services**

Contractors shall provide switched Ethernet point-to-point and multipoint LAN services for use in a metropolitan area which allows Customers to connect two (2) or more locations.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

#### **3.2.1.1 General Requirements**

##### **3.2.1.1.1 Standards**

Contractor's service shall provide Ethernet services that comply with all applicable standards as set by the following standard bodies:

1. Metro Ethernet Forum (MEF);
2. Internet Engineering Task Force;
3. International Telecommunications Union (ITU); and,
4. Institute of Electrical and Electronics Engineers, Inc. (IEEE).

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*



### 3.2.1.1.2 End-to-End Ethernet Delivery

Contractors shall provide a seamless end-to-end service traversing from the Customer Premise Equipment (CPE) through the Contractor's network minimizing conversion of protocols.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.3 Ethernet Virtual Connections (EVC)

Contractor's service shall provide EVCs, which are used to define the association of two (2) or more User-to-Network Interfaces (UNI's).

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.4 Ethernet User-to-Network Interface (UNI)

Contractor's service shall provide delivery of the service via a User-to-Network Interface (UNI). The service shall provide bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 Ethernet interface (UNI). Table 3.2.1.1.4 lists the UNI physical interfaces.

Table 3.2.1.1.4 – UNI Physical Interfaces

UNI Speed	UNI Physical Interface
10 Mbps	10BaseT
100 Mbps	100BaseT
1 Gbps	1000BaseT or 1000BaseSX

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.5 Multiple Classes of Service (CoS)

The service shall provide Class of Service (CoS) options that allow for differentiated service performance levels for different types of network traffic.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*



### 3.2.1.1.6 Service Frame Delivery Options

Service Frame Delivery options supported shall include

1. Unicast Frame Delivery;
2. Multicast Frame Delivery as per RFC 11 12; and,
3. Broadcast Frame Delivery as per IEEE 802.3.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### 3.2.1.1.7 Ethernet Service Frame Disposition

The service shall deliver all service frames associated with the EVC unconditionally across the network as specified in Table 3.2.1.1.7.

Table 3.2.1.1.7 –Service Frame Delivery Disposition

Service Frame Type	Service Frame Delivery
Unicast	All Frames delivered unconditionally
Multicast	All Frames delivered unconditionally
Broadcast	All Frames delivered unconditionally

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### 3.2.1.1.8 VLAN Tag Preservation

The service shall support IEEE 802.1Q VLAN-tagged Customer packets. All Customer VLAN IDs and priority code points (IEEE 802.1p) for CoS shall be transmitted and received unaltered by the service. Untagged packets shall be mapped to the native VLAN specified by Customer. Customers may configure their own VLANs on their Customer owned CPE without coordination with the Contractor.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### 3.2.1.1.9 Maximum Frame Size

The service shall support a Maximum Transmission Unit (MTU) packet size of 1600 bytes to support untagged or 802.1Q tagged packet sizes.



Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_

### 3.2.1.1.10 Performance Monitoring

The Contractor shall conduct Performance Monitoring that includes the following:

1. Signal failure;
2. Signal degradation;
3. Connectivity or Loss of connectivity;
4. Frame loss;
5. Errored frames;
6. Looping;
7. Mis-inserted frames; and,
8. Maintenance parameters.

Bidder shall describe their Performance Monitoring (PM) that will be deployed for CALNET 3.

Bidder understands the requirements in Section 3.2.1.1.10 and shall meet or exceed them? Yes  X  No \_\_\_

*Description:*

AT&T manages and monitors our core network to ensure appropriate levels of performance. Failures within the core trigger an MPLS enabled failover which means most core failures are either entirely transparent or momentary and non-impactful to customers. In addition, core network utilization is proactively monitored with tools that take snap shots of the oversubscribed Metro Ethernet core. The average and maximum values are tracked against thresholds triggering engineering activity to add additional core routes when needed.

AT&T deploys and manages Network Terminating Equipment at the customer premises to provide multiple functions including signal regeneration, police the CIRs, enhance security, measurement of network performance for purposes of managing our SLAs and determining connectivity. This equipment is proactively monitored 24/7 thru a network management VLAN within the port, accessible only from the secure AT&T network. We receive connectivity alarms and can remotely test or trouble shoot to these devices.

When customers do experience either a complete failure or degraded performance, that we have not already detected, and reports it via a trouble ticket, AT&T's Ethernet Network Operations



Center located in Sacramento, CA., works to isolate and repair service or correct network related performance issues.

### 3.2.1.1.11 Network Monitoring

The Contractor shall monitor all services on a 24x365 basis.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.12 Technical Support

Contractor shall provide technical support service issues via a toll-free telephone number that operates on a 24x365 basis.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.13 Maintenance

The Contractor shall perform maintenance during a set maintenance window. Maintenance shall be coordinated between the Contractor and the Customer. Contractor shall provide a minimum of 48 hour notice to the Customer for non-service impacting scheduled maintenance. Contractor shall provide a minimum of seven (7) days' notice for service impacting planned maintenance. Emergency maintenance shall be performed as needed.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.1.14 Equipment and Environment

The Contractor shall provide and install all network terminating Equipment (NTE) in Customer provided racking and utilize State provided AC power. The NTE shall connect to either a Customer router with an Ethernet blade or a Customer Ethernet switch equipped to support Ethernet located within fifty feet.

All Equipment shall adhere to the Telcordia Network Equipment Building System (NEBS).

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*

### 3.2.1.2 Ethernet Private Line (EPL) MAE Service

The Contractor shall provide Ethernet Private Line (EPL) MAE service. This service shall provide a logical Point-to-Point connection between two (2) Customer locations or a Customer location and an Internet Service Provider Point of



Presence (POP), Interexchange Carrier POP, or another 3rd party location. EPL service shall enable Customers to use any VLANs or Ethernet control protocol across the service without coordination with the Contractor.

EPL service shall enable Customers to connect their Customer Premise Equipment (CPE) using an Ethernet interface and provide one (1) Ethernet Virtual Connection (EVC) between two (2) Customer locations.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### **3.2.1.3 Ethernet Virtual Private Line (EVPL) MAE Service**

The Contractor shall provide Ethernet Virtual Private Line (EVPL) MAE service. This service shall provide an Ethernet Virtual Connection (EVC) between two (2) Customer locations similar to Ethernet Private Line service but shall support the added flexibility to multiplex multiple services (EVCs) on a single UNI at a Customer's hub or aggregation site.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### **3.2.1.4 EPL and EVPL MAE Service Multiplexing**

The EPL and EVPL MAE service shall enable Customers to multiplex multiple services (EVCs) on a given UNI eliminating the need for multiple ports on the Customer's router or Ethernet switch.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

### **3.2.1.5 EPL and EVPL MAE Classes of Service (CoS)**

Contractor shall provide three (3) Classes of Service (CoS) options for the EPL/EVPL MAE service: BASIC, PRIORITY and PREMIUM. The CoS options shall allow for differentiated service performance levels for different types of network traffic. CoS options shall allow Customers to prioritize mission-critical traffic from lesser priority traffic in the network. The CoS shall be associated with the bandwidth usage rate Committed Information Rate (CIR) ordered by the Customer for each connection at the Customer locations. If the Customer requests multiple EVCs per location, then a CoS will be associated with each EVC.

#### **3.2.1.5.1 BASIC CoS MAE**

BASIC CoS supports data applications with more tolerance for delay and/or those with least priority. There are no service performance parameters associated with this Class of Service.

Bidders shall describe in detail their Basic CoS MAE service that will be deployed to satisfy this requirement.



*Bidder understands the requirements in Section 3.2.1.5.1 and shall meet or exceed them? Yes*  
**X** No

*Description:*

AT&T Switched Ethernet (ASE) service provides a “Non- Critical High” Class of Service. This is a basic CoS that supports non-critical data applications with more tolerance for delay and/or those that are lower in priority (i.e., LAN traffic). There are no service performance parameters associated with this Grade of Service.

### 3.2.1.5.2 PRIORITY CoS MAE

PRIORITY CoS shall support data applications with more tolerance for delay and/or those that are lower in priority. The service parameters associated with this class of service are listed in Table 3.2.1.5.2.

Table 3.2.1.5.2 lists the service performance objectives for PRIORITY CoS for distances within 250 network miles.

Table 3.2.1.5.2 – PRIORITY CoS Performance Objectives

Performance Objective (≤ 250 miles)	PRIORITY CoS
Latency (one way)	<35ms
Jitter (one way)	<40ms
Packet Loss (one way)	<0.5%
Availability	>99.99%

Bidders shall describe in detail their Priority CoS MAE service that will be deployed to satisfy this requirement.

*Bidder understands the requirements in Section 3.2.1.5.2 and shall meet or exceed them? Yes*  
**X** No

*Description:*

AT&T Switched Ethernet (ASE) service provides a “Businss Critical Medium” Class of Service. This is a Priority CoS that supports data applications with more tolerance for delay and/or those that are lower in priority. This grade of service is the appropriate selection for LAN traffic since it tolerates bursty and time-varying traffic.





### 3.2.1.5.3 PREMIUM CoS MAE

PREMIUM CoS shall support applications that require minimal loss and low latency variation (i.e., jitter). The network will provision data in this class of service in a priority queue indicating that it is delay sensitive. The service parameters associated with this class of service are listed in Table 3.2.1.5.3.

Table 3.2.1.5.3 lists the service performance objectives for PREMIUM CoS for distances within 250 network miles.

Table 3.2.1.5.3 – Class of Service Options

Performance Objective ( $\leq$ 250 miles)	PREMIUM CoS
Latency (one way)	<25ms
Jitter (one way)	<25ms
Packet Loss (one way)	<0.1%
Availability	>99.99%

Bidders shall describe in detail their Premium CoS MAE service that will be deployed to satisfy this requirement.

*Bidder understands the requirements in Section 3.2.1.5.3 and shall meet or exceed them? Yes*  
**X** No

*Description:*

AT&T Switched Ethernet (ASE) service provides a “Business Critical High” Class of Service. This is a PREMIUM CoS that supports applications that require minimal loss and low latency variation (i.e., jitter). The network will provision data in this grade of service in a priority queue indicating that it is delay sensitive.

### 3.2.1.6 EPL and EVPL MAE Service Feature Description

Contractor shall provide MAE services as described below.

#### 3.2.1.6.1 EPL and EVPL MAE Service Connections

EPL and EVPL MAE Service Connections shall include the Network Interface and the Access Link from the Customer premises to the Ethernet network, a port on the Ethernet network, the assigned bandwidth usage and one (1) Ethernet Virtual Connection (EVC).





1. Network Interface (NI): The point that the Customer's data transmission enters the network. The point of interconnection between the Contractor's communication facility and your end-user's terminal equipment.
2. Access Link: Connects a Customer facility at the NI to an Ethernet port on the Metro Ethernet network with a standard optical or copper connection.
3. Port: An Ethernet port is the physical entry point to the shared Metro Ethernet Network. Virtual Local Area Networks (VLANs) Ethernet Virtual Connections (EVCs) originate and terminate on a Metro Ethernet Port.

### 3.2.1.6.2 Managed Router Service:

Contractor shall offer a managed router service that includes the components described in Section 3.2.1.6.1 in a bundled format which includes a Contractor owned, maintained and managed router as identified in Table 3.2.1.6.a.

The Contractor's managed router service shall include proactive Customer notification.

Bidder shall describe in detail all equipment, maintenance and management services that, as the awarded Contractor, will be deployed to satisfy this requirement.

*Bidder understands the requirements in Section 3.2.1.6.2 and shall meet or exceed them? Yes*  
**X** No

*Description:*

Under the AT&T Managed Router Solution, AT&T provides, configures, monitors, manages and maintains the AT&T Owned Equipment located at the Customer Site. The Equipment may consist of a router and other Equipment, as applicable, e.g., an asynchronous modem used to diagnose and manage the router.

The management demarcation point for AT&T Managed Router is the LAN interface card on the router at the Customer Site. Note: The customer must provide a non-PBX dial up line for each managed router.

## Standard Features and Functions

### Design and Engineering

AT&T will design and/or document the Customer's Network topology, applications, connectivity, projected traffic flows, and performance based upon Customer provided information and Customer-specified requirements.



- AT&T will validate hardware, software and network platforms provided as the result of the engineered router network design utilizing established AT&T testing and troubleshooting criteria.
- AT&T will also develop specifications for the type of router hardware and software necessary to support the mutually agreed goals, objectives and requirements of the engineered network solution. The specifications will include the manufacturer's router model, port capacity, software version, appropriate memory and protocol support, and addressing/routing tables.
- AT&T will review with Customer all pre-existing hardware configurations for compatibility with the Customer's requested network design.
- AT&T will document the network addressing plans, logical network device assignments and logical parameters for network management connectivity to the Customer's Network.

### **Installation Functions**

AT&T furnishes and installs all network components and AT&T Furnished Equipment at all Sites on the Customer Network. At AT&T's option, the AT&T Furnished Equipment may come from AT&T inventory or directly from the manufacturer. As part of the installation function, AT&T provides staging of AT&T Furnished Equipment in which the AT&T Furnished Equipment is configured, and shipped to the designated Site.

During test and turn-up, the Field Engineer installs AT&T Furnished Equipment on the installation date specified in the Project Schedule. AT&T verifies connectivity to the Site and transfers the Site to the Global Client Service Center (GCSC) for management center acceptance. This marks the end of the implementation process for that particular site. AT&T technicians test connectivity through the network equipment into the AT&T Network.

AT&T will perform physical installations of AT&T Furnished Equipment or Customer Provided Equipment during local Standard Business Hours, Monday through Friday.

### **Implementation Functions**

AT&T provides project implementation, management and installation services for all network and equipment components.

Project Implementation Management (PIM) includes the development of project schedules and identification of all Customer and AT&T activities necessary to implement the network solution. This includes:



- Development of project timeline
- Coordination of transport and provisioning of Equipment
- Tracking and managing to completion all activities in AT&T project plan
- Logical Management Configuration
- AT&T will load the logical management configurations and perform logical connectivity testing to determine that connected Sites can communicate with each other and with the appropriate AT&T network management center.
- AT&T will utilize network acceptance tests between the AT&T work centers and designated Customer interface(s) to verify connectivity between Customer LAN ports. These tests do not test host/LAN applications through the network.
- Logical configurations loaded on Equipment, whether AT&T or Customer Equipment, are the sole and exclusive intellectual property of AT&T. Logical Configurations are confidential and proprietary AT&T Information. Upon termination of Service, Customer shall have no right to use, or ownership interest in, the logical configurations loaded on Equipment. Upon Service termination, including individual Site deletions, Customer shall provide AT&T opportunities to erase logical configurations.

## **Network Management**

Standard Management functions consist of the following

- Network Monitoring and Fault Identification,
- Fault Resolution, and
- Ongoing Configuration Management

## **Network Monitoring and Fault Identification**

AT&T will proactively monitor the Customer Network, 7 days a week/ 24 hours per day, to identify faults within the Service Boundaries. AT&T WAN transport problems will be isolated, diagnosed and resolved by the AT&T network management center.

In providing the Network Monitoring and Fault Identification function, AT&T will:

- Monitor CPE interfaces within the Service Boundary utilizing SNMP techniques in-band and out-of-band.



- Perform diagnostic testing of CPE interfaces and isolate, sectionalize and identify faults as being physical or logical in nature.
- Maintain databases consisting of the logical configurations of Customer wide area network, WAN site and network connectivity, software specifications and Customer contact information.
- Provide trouble status to Customers at 1 hour intervals.

The AT&T GCSC Global Client Support Center serves as an SPOC for AT&T related faults. This activity includes the coordination with other AT&T network management centers for resolution of Router Site faults caused by AT&T provided transport problems. In addition, the California Major Account Center (CMAC) will receive and track trouble ticket status until the trouble ticket is closed out with the customer NOC or the customer.

### **Logical Fault Resolution**

AT&T manages the logical configuration design for the Customer Network. Fault resolution provides for the coordinated identification and resolution of logical connectivity network problems for AT&T Managed Equipment. Logical fault resolution includes:

- Management of the logical trouble resolution process;
- Proactive problem management and engagement of additional tiered expertise, if necessary, to resolve the logical trouble;
- If the root cause of the logical failure is outside the AT&T Managed Equipment, the problem will be referred to the Customer with the diagnosis.

### **Ongoing Configuration Management (OCM)**

AT&T will manage a database of specific information regarding the logical address configuration(s) of the AT&T Furnished Equipment and Customer Equipment and associated software specifications. AT&T will manage changes made to access lists, device passwords, and will use secured community strings for SNMP access. Configuration changes due to maintenance and moves, adds, changes or deletes (MACDs) will be included in the database. Reloads of router configurations from the AT&T technical platform database will be performed by the AT&T work center(s) if required as a result of major outages or system failures. AT&T work center(s) may initiate software updates to Customer Equipment with prior notification to and approval from Customer.



## Maintenance Functions

Except as limited herein, maintenance applies to the physical, software and firmware failure of Equipment maintained by AT&T. AT&T Furnished Equipment may be maintained only by AT&T. AT&T maintenance extends only to the following equipment:

- CSU/DSU
- Dial backup modem
- Out of band management access modems
- Routers

AT&T will proactively isolate and diagnose Equipment hardware faults and will interface with Equipment vendors and other vendors for engineering support, parts ordering and fault resolution of physical faults within the identified service boundaries, as well as respond to Customer-reported faults. If the physical failure's root cause is outside the contractually defined service boundaries, the problem will be referred back to the Customer with the diagnosis. Equipment maintenance will also cover software/firmware problems that cannot be resolved remotely.

## Equipment Maintenance Support Levels

### Four Hour, 24-Hour-a-Day Service (7X24)

Under Four Hour, 24-Hour-a-Day Service (7x24), repair coverage is offered 24 hours per day, seven days per week. If dispatch is required, a field engineer will arrive at the Customer premises within four hours of the completion of trouble resolution processes, regardless of the time of day or day of the week. Dispatch of technicians will only occur after remote trouble resolution processes have determined that the problem is in the Equipment.

### Network Operations Management Reports

The standard ASE managed service bundle network operations reports focus on basic router performance and include WAN and LAN utilization information. These reports are available, in color charts and graphs, via a web-based, HTML viewable format. Operations management reports are provided on a scheduled periodic basis as agreed to by AT&T and the customer, with each report displaying information gathered during the previous period's activity. Reports cover both AT&T Furnished Equipment and Customer Equipment. The standard reports are the following:



### Router Information Report

The Router Detail Report provides basic inventory and logistical information about the router, such as router name, location, PVC terminations, DLCI and port speeds.

### Router Performance Report

The Router Performance Report provides network and router utilization information, and network health information. The report may summarize network usage volumes and averages or report router performance on an exception basis.

### Access Port Report

The Access Port Report provides the network and router performance from the volume of data that has been sent or received at the WAN port interface. This report gives a summary of WAN port activity and also lists areas for concern, based on pre-defined thresholds for WAN use.

### LAN Port Report

The LAN Port Report provides the router performance based on the utilization of the LAN ports on the router. These reports, like WAN reports, provide information on utilization of LAN ports on the router and also indicate exceptions to pre-described thresholds.

Contractors shall provide the services and Features described in Table 3.2.1.6.a

Table 3.2.1.6.a –MAE Services and Features

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	EPL MAE Service Connection 10/100 Mbps	10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EYQEX



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection 10/100 Mbps - 10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			
2	EPL MAE Service Connection 10/100 Mbps with Managed Router	10/100 Mbps Ethernet port per location with managed router; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y	EYQEXR
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection 10/100 Mbps - 10/100 Mbps Ethernet port per location with managed router; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			
3	EPL MAE Service Connection Gigabit Ethernet (1 Gbps)	1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y	EYQFX
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection Gigabit Ethernet - 1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
4	EPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed Router	1000 Mbps Ethernet port per location, with managed router; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EYQFXR
Bidder's Product Description: <b>AT&amp;T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection Gigabit Ethernet - 1000 Mbps Ethernet port per location with managed router; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.</b>					
5	EVPL MAE Service Connection 10/100 Mbps	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EYQEX
Bidder's Product Description: <b>AT&amp;T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection 10/100 Mbps - Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.</b>					
6	EVPL MAE Service Connection 10/100 Mbps with Managed Router	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EYQEXR





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection 10/100 Mbps - Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			
7	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps)	Assessed per interface at bandwidths of 1Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y	EYQFX
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection Gigabit Ethernet - Assessed per interface at bandwidths of 1Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			
8	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed Router	Assessed per interface at bandwidths of 1Gbps Ethernet with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y	EYQFXR
	Bidder's Product Description: AT&T Switched Ethernet (ASE) Basic Service Arrangement (BSA) Connection Gigabit Ethernet - Assessed per interface at bandwidths of 1Gbps Ethernet with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.			





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
9	Additional MAE MAC Addresses (51-100)	MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per EPL/EVPL connection. This optional feature increases that limit to up to 100 MAC addresses per EPL/EVPL connection. A technical review will be necessary to determine if service can be provided and for approval to exceed the limit.	Y		M2CBX
Bidder's Product Description: <b>AT&amp;T Switched Ethernet (ASE) Additional MAC Addresses (51-100) - MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per EPL/EVPL connection. This optional feature increases that limit to up to 100 MAC addresses per EPL/EVPL connection. A technical review will be necessary to determine if service can be provided and for approval to exceed the limit.</b>					
10	Ethernet Virtual Connection (EVC) MAE	EVC rate element. EVCs shall be assigned in 1 Mbps increments within each port range. Customer may order additional EVCs to establish additional virtual connections over the same physical connections. When additional EVCs are ordered, the Customer must designate the portion of the CIR bandwidth assigned to each EVC.	Y		ASEVC
Bidder's Product Description: <b>AT&amp;T Switched Ethernet (ASE) Ethernet Virtual Connection (EVC) - EVC rate element. EVCs shall be assigned in 1 Mbps increments within each port range. Customer may order additional EVCs to establish additional virtual connections over the same physical connections. When additional EVCs are ordered, the Customer must designate the portion of the CIR bandwidth assigned to each EVC</b>					
11	CIR (BASIC CoS MAE):				
11a	BASIC CIR - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6E2XNH



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 2 Mbps Non-Critical High</b>			
11b	BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6E4XNH
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 4 Mbps Non-Critical High</b>			
11c	BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6E8XNH
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 8 Mbps Non-Critical High</b>			
12	CIR (PRIORITY CoS):			
12a	PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6E2XBM
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 2 Mbps Business Critical Medium</b>			
12b	PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6E4XBM
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 4 Mbps Business Critical Medium</b>			
12c	PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EAXBM
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 5 Mbps Business Critical Medium</b>			
12d	PRIORITY CIR MAE -8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6E8XBM
	Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 8 Mbps Business Critical Medium</b>			



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
12e	PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EBXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 10 Mbps Business Critical Medium</b>					
12f	PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EDXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 20 Mbps Business Critical Medium</b>					
12g	PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EHXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 50 Mbps Business Critical Medium</b>					
12h	PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6ELXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 100 Mbps Business Critical Medium</b>					
12i	PRIORITY CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6ENXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 150 Mbps Business Critical Medium</b>					
12j	PRIORITY CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EQXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 250 Mbps Business Critical Medium</b>					
12k	PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6ETXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 500 Mbps Business Critical Medium</b>					



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
12l	PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EUXBM
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 600 Mbps Business Critical Medium</b>					
12m	PRIORITY CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EZXB
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 1000 Mbps Business Critical Medium</b>					
13	CIR (PREMIUM CoS):				
13a	PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6E2XBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 2 Mbps Business Critical High</b>					
13b	PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6E4XBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 4 Mbps Business Critical High</b>					
13c	PREMIUM CIR MAE – 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EAXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 5 Mbps Business Critical High</b>					
13d	PREMIUM CIR MAE – 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6E8XBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 8 Mbps Business Critical High</b>					
13e	PREMIUM CIR MAE – 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		R6EBXBH



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 10 Mbps Business Critical High</b>				
13f	PREMIUM CIR MAE – 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EDXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 20 Mbps Business Critical High</b>				
13g	PREMIUM CIR MAE – 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EHBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 50 Mbps Business Critical High</b>				
13h	PREMIUM CIR MAE – 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6ELXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 100 Mbps Business Critical High</b>				
13i	PREMIUM CIR MAE – 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6ENXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 150 Mbps Business Critical High</b>				
13j	PREMIUM CIR MAE – 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EQXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 250 Mbps Business Critical High</b>				
13k	PREMIUM CIR MAE – 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6ETXBH
Bidder's Product Description: <b>ASE (BSA) Committed Information Rate – 500 Mbps Business Critical High</b>				
13l	PREMIUM CIR MAE – 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EUXBH



	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: ASE (BSA) Committed Information Rate – 600 Mbps Business Critical High			
13m	PREMIUM CIR MAE – 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y	R6EZXBH
	Bidder's Product Description: ASE (BSA) Committed Information Rate – 1000 Mbps Business Critical High			

The Contractor may offer additional unsolicited MAE services and features in Table 3.2.1.6.b.

Table 3.2.1.6.b Unsolicited MAE Services and Features

	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T Switched Ethernet (ASE) Service (Additional Features)	AT&T Switched Ethernet Service is a switched Ethernet transport service providing advanced Ethernet functionality using fiber and copper access technology and a switched Ethernet core network. It provides full duplex transport of data signals between a Customer's premises and an Ethernet switch in a Telephone Company central office. Each connection is referred to as a "port" throughout this document. These ports can be interconnected in a variety of ways in the core network.	Multiple IDs (see below)
	Bidder's Product Description: AT&T Switched Ethernet Service is a switched Ethernet transport service providing advanced Ethernet functionality using fiber and copper access technology and a switched Ethernet core network. It provides full duplex transport of data signals between a Customer's premises and an Ethernet switch in a Telephone Company central office. Each connection is referred to as a "port" throughout. These ports can be interconnected in a variety of ways in the core network.  AT&T Switched Ethernet Service supports point-to-point, point-to-multipoint or multipoint-to-multipoint configurations. Point-to-point service provides a connection between two ports. Point-to- multipoint service provides multiple point-to-point connections between several different ports, most typically as a "hub and spoke" design, where a single hub site has multiple virtual connections to remote (spoke) sites. Multipoint-to-multipoint service provides a multipoint connection between three or more designated ports and is often referred to as "any to any" type of connectivity.		





	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T Switched Ethernet Service is available in two serving arrangements and two types of Customer Port Connections - the Basic Service Arrangement and Basic Ports, and the Per Packet Class of Service Arrangement and PPCOS Ports. Customer connections (ports) are offered at 100 Mbps, 1,000 Mbps (1 Gig) and 10,000 Mbps (10 Gig) and customers may subscribe to a variety of Committed Information Rates (CIRs) within those maximum port speeds, according to the bandwidth needs of the specific port's application.		
14	ASE (BSA) Connection 10 Gigabit Ethernet	ASE (BSA) Connection 10 Gigabit Ethernet	EYQGX
	Bidder's Product Description: Assessed per interface at bandwidths of 10Gbps Ethernet. The ASE connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
15	Basic Service Arrangement Class of Service (CoS) and Committed Information Rate (CIR)	Basic Service Arrangement Class of Service (CoS) and Committed Information Rate (CIR)	Multiple IDs (see below)
	Bidder's Product Description: Basic Service Arrangement Class of Service (CoS) and Committed Information Rate (CIR)		
16	ASE (BSA) Committed Information Rate – 2 Mbps Real Time	ASE (BSA) Committed Information Rate – 2 Mbps Real Time	R6E2XR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
17	ASE (BSA) Committed Information Rate – 4 Mbps Real	ASE (BSA) Committed Information Rate – 4 Mbps Real Time	R6E4XR T





	Feature Name	Feature Description	Bidder's Product Identifier
	Time		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
18	ASE (BSA) Committed Information Rate – 5 Mbps Real Time	ASE (BSA) Committed Information Rate – 5 Mbps Real Time	R6EAXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
19	ASE (BSA) Committed Information Rate – 8 Mbps Real Time	ASE (BSA) Committed Information Rate – 8 Mbps Real Time	R6E8XR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
20	ASE (BSA) Committed Information Rate – 10 Mbps Real Time	ASE (BSA) Committed Information Rate – 10 Mbps Real Time	R6EBXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
21	ASE (BSA) Committed Information Rate	ASE (BSA) Committed Information Rate – 20 Mbps Real Time	R6EDXR T





	Feature Name	Feature Description	Bidder's Product Identifier
	– 20 Mbps Real Time		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
22	ASE (BSA) Committed Information Rate – 50 Mbps Real Time	ASE (BSA) Committed Information Rate – 50 Mbps Real Time	R6EHXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
23	ASE (BSA) Committed Information Rate – 100 Mbps Real Time	ASE (BSA) Committed Information Rate – 100 Mbps Real Time	R6ELXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
24	ASE (BSA) Committed Information Rate – 150 Mbps Real Time	ASE (BSA) Committed Information Rate – 150 Mbps Real Time	R6ENXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
25	ASE (BSA) Committed	ASE (BSA) Committed Information Rate – 250 Mbps Real Time	R6EQXR T





	Feature Name	Feature Description	Bidder's Product Identifier
	Information Rate – 250 Mbps Real Time		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
26	ASE (BSA) Committed Information Rate – 400 Mbps Real Time	ASE (BSA) Committed Information Rate – 400 Mbps Real Time	R6ESXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
27	ASE (BSA) Committed Information Rate – 500 Mbps Real Time	ASE (BSA) Committed Information Rate – 500 Mbps Real Time	R6ETXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
28	ASE (BSA) Committed Information Rate – 600 Mbps Real Time	ASE (BSA) Committed Information Rate – 600 Mbps Real Time	R6EUXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
29	ASE (BSA)	ASE (BSA) Committed Information Rate – 1000 Mbps	R6EZXR





	Feature Name	Feature Description	Bidder's Product Identifier
	Committed Information Rate – 1000 Mbps Real Time	Real Time	T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
30	ASE (BSA) Committed Information Rate – 2000 Mbps Real Time	ASE (BSA) Committed Information Rate – 2000 Mbps Real Time	R61BXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
31	ASE (BSA) Committed Information Rate – 2500 Mbps Real Time	ASE (BSA) Committed Information Rate – 2500 Mbps Real Time	R61CXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
32	ASE (BSA) Committed Information Rate – 4000 Mbps Real Time	ASE (BSA) Committed Information Rate – 4000 Mbps Real Time	R61FXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		





	Feature Name	Feature Description	Bidder's Product Identifier
33	ASE (BSA) Committed Information Rate – 5000 Mbps Real Time	ASE (BSA) Committed Information Rate – 5000 Mbps Real Time	R61HXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
34	ASE (BSA) Committed Information Rate – 7500 Mbps Real Time	ASE (BSA) Committed Information Rate – 7500 Mbps Real Time	R61NXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
35	ASE (BSA) Committed Information Rate – 9500 Mbps Real Time	ASE (BSA) Committed Information Rate – 9500 Mbps Real Time	R61RXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time Class of Service (CoS).		
36	ASE (BSA) Committed Information Rate – 10000 Mbps Real Time	ASE (BSA) Committed Information Rate – 10000 Mbps Real Time	R61SXR T
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Real time		





	Feature Name	Feature Description	Bidder's Product Identifier
	Class of Service (CoS).		
37	ASE (BSA) Committed Information Rate – 2 Mbps Interactive	ASE (BSA) Committed Information Rate – 2 Mbps Interactive	R6E2XIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
38	ASE (BSA) Committed Information Rate – 4 Mbps Interactive	ASE (BSA) Committed Information Rate – 4 Mbps Interactive	R6E4XIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
39	ASE (BSA) Committed Information Rate – 5 Mbps Interactive	ASE (BSA) Committed Information Rate – 5 Mbps Interactive	R6EAXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
40	ASE (BSA) Committed Information Rate – 8 Mbps Interactive	ASE (BSA) Committed Information Rate – 8 Mbps Interactive	R6E8XIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).	
41	ASE (BSA) Committed Information Rate – 10 Mbps Interactive	ASE (BSA) Committed Information Rate – 10 Mbps Interactive	R6EBXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
42	ASE (BSA) Committed Information Rate – 20 Mbps Interactive	ASE (BSA) Committed Information Rate – 20 Mbps Interactive	R6EDXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
43	ASE (BSA) Committed Information Rate – 50 Mbps Interactive	ASE (BSA) Committed Information Rate – 50 Mbps Interactive	R6EHXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
44	ASE (BSA) Committed Information Rate – 100 Mbps Interactive	ASE (BSA) Committed Information Rate – 100 Mbps Interactive	R6ELXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).	
45	ASE (BSA) Committed Information Rate – 150 Mbps Interactive	ASE (BSA) Committed Information Rate – 150 Mbps Interactive	R6ENXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
46	ASE (BSA) Committed Information Rate – 250 Mbps Interactive	ASE (BSA) Committed Information Rate – 250 Mbps Interactive	R6EQXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
47	ASE (BSA) Committed Information Rate – 400 Mbps Interactive	ASE (BSA) Committed Information Rate – 400 Mbps Interactive	R6ESXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
48	ASE (BSA) Committed Information Rate – 500 Mbps Interactive	ASE (BSA) Committed Information Rate – 500 Mbps Interactive	R6ETXIA
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
49	ASE (BSA) Committed Information Rate – 600 Mbps Interactive	ASE (BSA) Committed Information Rate – 600 Mbps Interactive	R6EUXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
50	ASE (BSA) Committed Information Rate – 1000 Mbps Interactive	ASE (BSA) Committed Information Rate – 1000 Mbps Interactive	R6EZXA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
51	ASE (BSA) Committed Information Rate – 2000 Mbps Interactive	ASE (BSA) Committed Information Rate – 2000 Mbps Interactive	R61BXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
52	ASE (BSA) Committed Information Rate – 2500 Mbps Interactive	ASE (BSA) Committed Information Rate – 2500 Mbps Interactive	R61CXIA





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
53	ASE (BSA) Committed Information Rate – 4000 Mbps Interactive	ASE (BSA) Committed Information Rate – 4000 Mbps Interactive	R61FXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
54	ASE (BSA) Committed Information Rate – 5000 Mbps Interactive	ASE (BSA) Committed Information Rate – 5000 Mbps Interactive	R61HXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
55	ASE (BSA) Committed Information Rate – 7500 Mbps Interactive	ASE (BSA) Committed Information Rate – 7500 Mbps Interactive	R61NXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
56	ASE (BSA) Committed Information Rate – 9500 Mbps Interactive	ASE (BSA) Committed Information Rate – 9500 Mbps Interactive	R61RXIA





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
57	ASE (BSA) Committed Information Rate – 10000 Mbps Interactive	ASE (BSA) Committed Information Rate – 10000 Mbps Interactive	R61SXIA
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Interactive Class of Service (CoS).		
58	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical High	R6ESXB H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).		
59	ASE (BSA) Committed Information Rate – 2000 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 2000 Mbps Business Critical High	R61BXB H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).		
60	ASE (BSA) Committed Information Rate	ASE (BSA) Committed Information Rate – 2500 Mbps Business Critical High	R61CXB H





	Feature Name	Feature Description	Bidder's Product Identifier
	– 2500 Mbps Business Critical High		
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).			
61	ASE (BSA) Committed Information Rate – 4000 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 4000 Mbps Business Critical High	R61FXB H
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).			
62	ASE (BSA) Committed Information Rate – 5000 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 5000 Mbps Business Critical High	R61HXB H
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).			
63	ASE (BSA) Committed Information Rate – 7500 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 7500 Mbps Business Critical High	R61NXB H
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business			



	Feature Name	Feature Description	Bidder's Product Identifier
	Critical High Class of Service (CoS).		
64	ASE (BSA) Committed Information Rate – 9500 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 9500 Mbps Business Critical High	R61RXB H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).		
65	ASE (BSA) Committed Information Rate – 10000 Mbps Business Critical High	ASE (BSA) Committed Information Rate – 10000 Mbps Business Critical High	R61SXB H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical High Class of Service (CoS).		
66	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical Medium	R6ESXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
67	ASE (BSA) Committed Information Rate – 2000 Mbps Business Critical	ASE (BSA) Committed Information Rate – 2000 Mbps Business Critical Medium	R61BXB M





	Feature Name	Feature Description	Bidder's Product Identifier
	Medium		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
68	ASE (BSA) Committed Information Rate – 2500 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 2500 Mbps Business Critical Medium	R61CXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
69	ASE (BSA) Committed Information Rate – 4000 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 4000 Mbps Business Critical Medium	R61FXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
70	ASE (BSA) Committed Information Rate – 5000 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 5000 Mbps Business Critical Medium	R61HXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		





	Feature Name	Feature Description	Bidder's Product Identifier
<b>71</b>	ASE (BSA) Committed Information Rate – 7500 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 7500 Mbps Business Critical Medium	R61NXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
<b>72</b>	ASE (BSA) Committed Information Rate – 9500 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 9500 Mbps Business Critical Medium	R61RXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
<b>73</b>	ASE (BSA) Committed Information Rate – 10000 Mbps Business Critical Medium	ASE (BSA) Committed Information Rate – 10000 Mbps Business Critical Medium	R61SXB M
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Critical Medium Class of Service (CoS).		
<b>74</b>	ASE (BSA) Committed Information Rate – 5 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 5 Mbps Non-Critical High	R6EAXN H
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
		A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).	
75	ASE (BSA) Committed Information Rate – 10 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 10 Mbps Non-Critical High	R6EBXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
76	ASE (BSA) Committed Information Rate – 20 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 20 Mbps Non-Critical High	R6EDXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
77	ASE (BSA) Committed Information Rate – 50 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 50 Mbps Non-Critical High	R6EHXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
78	ASE (BSA) Committed Information Rate – 100 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 100 Mbps Non-Critical High	R6ELXN H





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
79	ASE (BSA) Committed Information Rate – 150 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 150 Mbps Non-Critical High	R6ENXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
80	ASE (BSA) Committed Information Rate – 250 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 250 Mbps Non-Critical High	R6EQXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
81	ASE (BSA) Committed Information Rate – 400 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 400 Mbps Non-Critical High	R6ESXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
82	ASE (BSA) Committed Information Rate – 500 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 500 Mbps Non-Critical High	R6ETXN H





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
83	ASE (BSA) Committed Information Rate – 600 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 600 Mbps Non-Critical High	R6EUXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
84	ASE (BSA) Committed Information Rate – 1000 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 1000 Mbps Non-Critical High	R6EZXX H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
85	ASE (BSA) Committed Information Rate – 2000 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 2000 Mbps Non-Critical High	R61BXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
86	ASE (BSA) Committed Information Rate – 2500 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 2500 Mbps Non-Critical High	R61CXN H





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
87	ASE (BSA) Committed Information Rate – 4000 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 4000 Mbps Non-Critical High	R61FXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
88	ASE (BSA) Committed Information Rate – 5000 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 5000 Mbps Non-Critical High	R61HXX H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
89	ASE (BSA) Committed Information Rate – 7500 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 7500 Mbps Non-Critical High	R61NXN H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).		
90	ASE (BSA) Committed Information Rate – 9500 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 9500 Mbps Non-Critical High	R61RXN H





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).</p>		
91	ASE (BSA) Committed Information Rate – 10000 Mbps Non-Critical High	ASE (BSA) Committed Information Rate – 10000 Mbps Non-Critical High	R61SXN H
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Non-Critical High Class of Service (CoS).</p>		
	<b>Per Packet Class of Service (PPCoS) Arrangement Ports</b>	<b>Per Packet Class of Service (PPCoS) Service Arrangement Ports</b>	<b>Multiple IDs ( see below)</b>
	<p>Bidder's Product Description:  <b>Per Packet Class of Service (PPCoS) Arrangement Ports.</b> This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the AT&amp;T network.</p>		
92	ASE (PPCoS) Connection 10/100 Mbps	ASE (PPCoS) Connection 10/100 Mbps	EYQLX
	<p>Bidder's Product Description:            10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The ASE connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.</p>		
93	ASE (PPCoS) Connection 1 Gigabit Ethernet	ASE (PPCoS) Connection 1 Gigabit Ethernet	EYQMX





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The ASE connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
94	ASE (PPCoS) Connection 10 Gigabit Ethernet	ASE (PPCoS) Connection 10 Gigabit Ethernet	EYQNX
	Bidder's Product Description: 10Gbps Ethernet port per location; Assessed per interface at bandwidths of 10Gbps Ethernet. The ASE connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
	<b>Per Packet Class of Service Arrangement Class of Service (CoS) Packages and Committed Information Rate (CIR)</b>	<b>Per Packet Class of Service Arrangement Class of Service (CoS) Packages and Committed Information Rate (CIR)</b>	<b>Multiple IDs ( see below)</b>
	Bidder's Product Description: <b>Per Packet Class of Service Arrangement Class of Service (CoS) Packages and Committed Information Rate (CIR).</b> This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the AT&T network		
95	ASE (PPCoS) Committed Information Rate – 2 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 2 Mbps Multimedia High	R6E2XM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
96	ASE (PPCoS)	ASE (PPCoS) Committed Information Rate – 4 Mbps	R6E4XM



	Feature Name	Feature Description	Bidder's Product Identifier
	Committed Information Rate – 4 Mbps Multimedia High	Multimedia High	H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
97	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia High	R6EAXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
98	ASE (PPCoS) Committed Information Rate – 8 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 8 Mbps Multimedia High	R6E8XM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
99	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia High	R6EBXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		





	Feature Name	Feature Description	Bidder's Product Identifier
<b>100</b>	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia High	R6EDXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
<b>101</b>	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia High	R6EHXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
<b>102</b>	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia High	R6ELXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
<b>103</b>	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia High	R6ENXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR.		



	Feature Name	Feature Description	Bidder's Product Identifier
	Multimedia High Class of Service (CoS).		
104	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia High	R6EQXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
105	ASE (PPCoS) Committed Information Rate – 400 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 400 Mbps Multimedia High	R6ESXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
106	ASE (PPCoS) Committed Information Rate – 500 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 500 Mbps Multimedia High	R6ETXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
107	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia High	R6EUXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).	
108	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia High	R6EZXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
109	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia High	R61BXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
110	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia High	R61CXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
111	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia High	R61FXM H
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
		A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).	
112	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia High	R61HXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
113	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia High	R61NXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
114	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia High	R61RXM H
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
115	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia High	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia High	R61SXM H





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS).		
116	ASE (PPCoS) Committed Information Rate – 2 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 2 Mbps Multimedia Standard	R6E2XMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
117	ASE (PPCoS) Committed Information Rate – 4 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 4 Mbps Multimedia Standard	R6E4XMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
118	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia Standard	R6EAXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
119	ASE (PPCoS) Committed	ASE (PPCoS) Committed Information Rate – 8 Mbps Multimedia Standard	R6E8XMS





	Feature Name	Feature Description	Bidder's Product Identifier
	Information Rate – 8 Mbps Multimedia Standard		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
120	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia Standard	R6EBXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
121	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia Standard	R6EDXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
122	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia Standard	R6EHXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
	will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
123	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia Standard	R6ELXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
124	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia Standard	R6ENXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
125	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia Standard	R6EQXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
126	ASE (PPCoS) Committed Information Rate – 400 Mbps	ASE (PPCoS) Committed Information Rate – 400 Mbps Multimedia Standard	R6ESXMS





	Feature Name	Feature Description	Bidder's Product Identifier
	Multimedia Standard		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
127	ASE (PPCoS) Committed Information Rate – 500 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 500 Mbps Multimedia Standard	R6ETXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
128	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia Standard	R6EUXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
129	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia Standard	R6EZXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		





	Feature Name	Feature Description	Bidder's Product Identifier
<b>130</b>	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia Standard	R61BXM S
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
<b>131</b>	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia Standard	R61CXM S
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
<b>132</b>	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia Standard	R61FXM S
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
<b>133</b>	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia Standard	R61HXM S





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
134	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia Standard	R61NXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
135	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia Standard	R61RXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
136	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia Standard	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia Standard	R61SXMS
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS).		
137	ASE (PPCoS) Committed	ASE (PPCoS) Committed Information Rate – 2 Mbps Critical Data	R6E2XCD





	Feature Name	Feature Description	Bidder's Product Identifier
	Information Rate – 2 Mbps Critical Data		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
138	ASE (PPCoS) Committed Information Rate – 4 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 4 Mbps Critical Data	R6E4XC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
139	ASE (PPCoS) Committed Information Rate – 5 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 5 Mbps Critical Data	R6EAXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
140	ASE (PPCoS) Committed Information Rate – 8 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 8 Mbps Critical Data	R6E8XC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
141	ASE (PPCoS)	ASE (PPCoS) Committed Information Rate – 10 Mbps	R6EBXC



	Feature Name	Feature Description	Bidder's Product Identifier
	Committed Information Rate – 10 Mbps Critical Data	Critical Data	D
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).			
142	ASE (PPCoS) Committed Information Rate – 20 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 20 Mbps Critical Data	R6EDXC D
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).			
143	ASE (PPCoS) Committed Information Rate – 50 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 50 Mbps Critical Data	R6EHXC D
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).			
144	ASE (PPCoS) Committed Information Rate – 100 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 100 Mbps Critical Data	R6ELXC D
Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).			





	Feature Name	Feature Description	Bidder's Product Identifier
145	ASE (PPCoS) Committed Information Rate – 150 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 150 Mbps Critical Data	R6ENXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
146	ASE (PPCoS) Committed Information Rate – 250 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 250 Mbps Critical Data	R6EQXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
147	ASE (PPCoS) Committed Information Rate – 400 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 400 Mbps Critical Data	R6ESXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
148	ASE (PPCoS) Committed Information Rate – 500 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 500 Mbps Critical Data	R6ETXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical		





	Feature Name	Feature Description	Bidder's Product Identifier
	Data Class of Service (CoS).		
149	ASE (PPCoS) Committed Information Rate – 600 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 600 Mbps Critical Data	R6EUXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
150	ASE (PPCoS) Committed Information Rate – 1000 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 1000 Mbps Critical Data	R6EZXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
151	ASE (PPCoS) Committed Information Rate – 2000 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 2000 Mbps Critical Data	R61BXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
152	ASE (PPCoS) Committed Information Rate – 2500 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 2500 Mbps Critical Data	R61CXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).	
153	ASE (PPCoS) Committed Information Rate – 4000 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 4000 Mbps Critical Data	R61FXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
154	ASE (PPCoS) Committed Information Rate – 5000 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 5000 Mbps Critical Data	R61HXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
155	ASE (PPCoS) Committed Information Rate – 7500 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 7500 Mbps Critical Data	R61NXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
156	ASE (PPCoS) Committed Information Rate – 9500 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 9500 Mbps Critical Data	R61RXC D
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
157	ASE (PPCoS) Committed Information Rate – 10000 Mbps Critical Data	ASE (PPCoS) Committed Information Rate – 10000 Mbps Critical Data	R61SXC D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Critical Data Class of Service (CoS).		
158	ASE (PPCoS) Committed Information Rate – 2 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 2 Mbps Business Data	R6E2XB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
159	ASE (PPCoS) Committed Information Rate – 4 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 4 Mbps Business Data	R6E4XB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
160	ASE (PPCoS) Committed Information Rate – 5 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 5 Mbps Business Data	R6EAXB D





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
161	ASE (PPCoS) Committed Information Rate – 8 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 8 Mbps Business Data	R6E8XBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
162	ASE (PPCoS) Committed Information Rate – 10 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 10 Mbps Business Data	R6EBXBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
163	ASE (PPCoS) Committed Information Rate – 20 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 20 Mbps Business Data	R6EDXBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
164	ASE (PPCoS) Committed Information Rate – 50 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 50 Mbps Business Data	R6EHXBD





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).</p>		
165	ASE (PPCoS) Committed Information Rate – 100 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 100 Mbps Business Data	R6ELXB D
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).</p>		
166	ASE (PPCoS) Committed Information Rate – 150 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 150 Mbps Business Data	R6ENXB D
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).</p>		
167	ASE (PPCoS) Committed Information Rate – 250 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 250 Mbps Business Data	R6EQXB D
	<p>Bidder's Product Description:            A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).</p>		
168	ASE (PPCoS) Committed Information Rate – 400 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 400 Mbps Business Data	R6ESXB D





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
<b>169</b>	ASE (PPCoS) Committed Information Rate – 500 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 500 Mbps Business Data	R6ETXBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
<b>170</b>	ASE (PPCoS) Committed Information Rate – 600 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 600 Mbps Business Data	R6EUXBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
<b>171</b>	ASE (PPCoS) Committed Information Rate – 1000 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 1000 Mbps Business Data	R6EZXBD
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
<b>172</b>	ASE (PPCoS) Committed Information Rate – 2000 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 2000 Mbps Business Data	R61BxBD





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
173	ASE (PPCoS) Committed Information Rate – 2500 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 2500 Mbps Business Data	R61CXB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
174	ASE (PPCoS) Committed Information Rate – 4000 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 4000 Mbps Business Data	R61FXB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
175	ASE (PPCoS) Committed Information Rate – 5000 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 5000 Mbps Business Data	R61HXB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
176	ASE (PPCoS) Committed Information Rate – 7500 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 7500 Mbps Business Data	R61NXB D





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
177	ASE (PPCoS) Committed Information Rate – 9500 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 9500 Mbps Business Data	R61RXB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
178	ASE (PPCoS) Committed Information Rate – 10000 Mbps Business Data	ASE (PPCoS) Committed Information Rate – 10000 Mbps Business Data	R61SXB D
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Business Data Class of Service (CoS).		
	Optional ASE Features	Optional ASE Features	Multiple IDs (see below)
	Bidder's Product Description: Optional ASE Features		
179	ASE Regenerator 10/100 Mbps port	ASE Regenerator 10/100 Mbps port	EYQHX
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
		Regenerating technology provides essential detection and retransmission of Ethernet signals. The type of transport medium and equipment needed for regeneration will be provided only as required by AT&T when actual fiber facility distance between central office locations exceeds design limits.	
180	ASE Regenerator 1 Gbps port	ASE Regenerator 1 Gbps port	EYQJX
	Bidder's Product Description: Regenerating technology provides essential detection and retransmission of Ethernet signals. The type of transport medium and equipment needed for regeneration will be provided only as required by AT&T when actual fiber facility distance between central office locations exceeds design limits.		
181	ASE Regenerator 10 Gbps port	ASE Regenerator 10 Gbps port	EYQKX
	Bidder's Product Description: Regenerating technology provides essential detection and retransmission of Ethernet signals. The type of transport medium and equipment needed for regeneration will be provided only as required by AT&T when actual fiber facility distance between central office locations exceeds design limits.		
182	ASE Alternate Service Switch 0-10 miles	ASE Alternate Service Switch 0-10 miles	1HHEK
	Bidder's Product Description: The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet Service from an AT&T Switched Ethernet Service switch that is different from the AT&T Switched Ethernet Service switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service's alternate switch wire center and the Customer's premises' normal serving wire center.		
183	ASE Alternate Service Switch 11-25 miles	ASE Alternate Service Switch 11-25 miles	1HHEL
	Bidder's Product Description: The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet		





	Feature Name	Feature Description	Bidder's Product Identifier
		Service from an AT&T Switched Ethernet Service switch that is different from the AT&T Switched Ethernet Service switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service's alternate switch wire center and the Customer's premises' normal serving wire center.	
184	ASE Alternate Service Switch 26-35 miles	ASE Alternate Service Switch 26-35 miles	1HHEM
	Bidder's Product Description: The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet Service from an AT&T Switched Ethernet Service switch that is different from the AT&T Switched Ethernet Service switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service's alternate switch wire center and the Customer's premises' normal serving wire center.		
185	ASE Alternate Service Switch 36-50 miles	ASE Alternate Service Switch 36-50 miles	1HHEN
	Bidder's Product Description: The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet Service from an AT&T Switched Ethernet Service switch that is different from the AT&T Switched Ethernet Service switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service's alternate switch wire center and the Customer's premises' normal serving wire center.		
186	Diverse Access	Diverse Access	EY7AD
	Bidder's Product Description: This feature provides transmission paths, which are diverse from each other as provided in this section, between two designated AT&T Switched Ethernet Service Port Connections at the same Customer premises and an AT&T Switched Ethernet Service switch. These two designated Port Connections must be purchased by the same Customer of record, and must be either 1 Gbps or 10 Gbps.		
187	ASE Enhanced Multicast Per Port	ASE Enhanced Multicast Per Port	EY7AE





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:            The Enhanced Multicast feature allows the broadcast/multicast/unknown unicast (BUM) traffic limit associated with multipoint EVCs to be increased from 2 Mbps up to 30 Mbps per EVC. The Enhanced Multicast feature is offered on a per port basis. Once the feature is ordered on a port, each multipoint EVC on that port may be provisioned to allow up to 30 Mbps of combined BUM traffic, orderable in 1 Mbps increments. EVC orders for such ports that do not specify a higher limit as allowed under this feature will be limited to the standard default of 2 Mbps BUM limit.</p>		
188	Advanced Access Failover 1G	Advanced Access Failover 1G	EY7AA
	<p>Bidder's Product Description:            Advanced Access Failover ("AAF") provides automatic failover to a redundant facility in the event of a failure of a protected facility.</p>		
189	Advanced Access Failover 10G	Advanced Access Failover 10G	EY7AB
	<p>Bidder's Product Description:            Advanced Access Failover ("AAF") provides automatic failover to a redundant facility in the event of a failure of a protected facility.</p>		
190	ASE Administrative Change Charge	ASE Administrative Change Charge	ORCMX
	<p>Bidder's Product Description:            Service order change charge, per order, for customer initiated inside moves or reconfiguration of existing ASE ports and CIR.</p>		
	OPT-E-MAN®	OPT-E-MAN®	Multiple (See Below)
	<p>Bidder's Product Description:  <b>OPT-E-MAN Basic</b>            OPT-E-MAN Basic service provides a logical Point-to-Point (P2P) connection between two customer locations (within the same OPT-E-MAN domain) or a customer location and an Internet Service Provider Point of Presence (POP), Interexchange Carrier POP, or another 3rd party location. AT&amp;T's Managed Internet Service, Virtual Private Network</p>		





	Feature Name	Feature Description	Bidder's Product Identifier
		<p>Service and OPT-E-WANSM are all well suited for dedicated or virtual access from OPT-E-MAN Networks. Ethernet Virtual Connections (EVCs) are used to transport multiple connections over a single physical circuit. Basic OPT-E-MAN service is similar to traditional Frame Relay service in that a Frame Relay PVCs (EVCs in OPT-E-MAN) only have two endpoints and multiple PVCs (OPT-E-MAN EVCs) can ride over a common circuit.</p> <p><b>OPT-E-MAN Basic Plus</b></p> <p>OPT-E-MAN Basic Plus is a multipoint Ethernet service. OPT-E-MAN Basic Plus will transport Ethernet frames among three or more customer sites using transparent bridging (via an E-LAN). Basic Plus service supports either tagged (ERS) or untagged (EWS) traffic. The Basic Plus element in OPT-E-MAN only relates to the multipoint nature of the network. If EVCs are used, multiple Basic Plus domains (separate broadcast domains) in the OPT-E-MAN cloud may be established for a single customer and/or network.</p> <p><b>Ethernet Wire Service (EWS)</b></p> <p>Ethernet Wire Service (EWS) is a port-based OPT-E-MAN service facilitating the transport of all Ethernet packets (802.1Q tagged or not) through the OPT-E-MAN cloud. OPT-E-MAN will only use the destination MAC address for forwarding decisions (ignoring any and all 802.1Q tags) for all forwarding decisions. EWS services does not require customer and OPT-E-MAN coordination (other than a single VLAN that cannot be used on the customer's CPE) and allows the customer to change the VLANs transported through OPT-E-MAN without any coordination or scheduling requirements. EWS is used in both Basic and Basic Plus based networks. By definition and practice, an EWS circuit does not support OPT-E-MAN EVCs.</p> <p><b>Ethernet Relay Service (ERS)</b></p> <p>Ethernet Relay Service uses 802.1Q tags to differentiate multiple paths or EVCs (Ethernet Virtual Circuits) through the OPT-E-MAN network. ERS provides the mechanism for a single OPT-E-MAN circuit to transport multiple logical connections carrying communications to different endpoints or sites. The 802.1Q tag in an ERS environment is equivalent to the DLCI (Data Link Connection Identifier) on a Frame Relay connection. Like Frame Relay, the 802.1Q EVC tag is locally significant and needs not be set to the same value at both ends of the virtual circuit. On any given Ethernet circuit, each EVC must use a different VLAN number</p>	
191	OPT-E-MAN Basic Connection 10/100 Mbps	OPT-E-MAN Basic Connection 10/100 Mbps	P9FEX
Bidder's Product Description:			





	Feature Name	Feature Description	Bidder's Product Identifier
		10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The OPT-E-MAN connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.	
192	OPT-E-MAN Basic Connection Gigabit Ethernet	OPT-E-MAN Basic Connection Gigabit Ethernet	P9FGX
	Bidder's Product Description: 1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The OPT-E-MAN connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
193	OPT-E-MAN Basic Plus Connection 10/100 Mbps	OPT-E-MAN Basic Plus Connection 10/100 Mbps	P9FFX
	Bidder's Product Description: 10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The OPT-E-MAN connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
194	OPT-E-MAN Basic Plus Connection Gigabit Ethernet	OPT-E-MAN Basic Plus Connection Gigabit Ethernet	P9FHX
	Bidder's Product Description: 1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The OPT-E-MAN connection rate element includes the physical connection between the customer's demarcation and the core Ethernet network, and a port on the NTE.		
195	Best Effort Grade of Service	Best Effort Grade of Service	Multiple
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
		A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Best Effort grade of service (GoS).	
196	OPT-E-MAN Committed Information Rate – 2 Mbps Best Effort	OPT-E-MAN Committed Information Rate – 2 Mbps Best Effort	R6E2E
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Best Effort grade of service (GoS).		
197	OPT-E-MAN Committed Information Rate – 4 Mbps Best Effort	OPT-E-MAN Committed Information Rate – 4 Mbps Best Effort	R6E4E
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Best Effort grade of service (GoS).		
198	OPT-E-MAN Committed Information Rate – 8 Mbps Best Effort	OPT-E-MAN Committed Information Rate – 8 Mbps Best Effort	R6E8E
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Best Effort grade of service (GoS).		
	Bronze Grade of Service	Bronze Grade of Service	Multiple
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze		





	Feature Name	Feature Description	Bidder's Product Identifier
	grade of service (GoS).		
199	OPT-E-MAN Committed Information Rate – 2 Mbps Bronze	OPT-E-MAN Committed Information Rate – 2 Mbps Bronze	R6E2B
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
200	OPT-E-MAN Committed Information Rate – 4 Mbps Bronze	OPT-E-MAN Committed Information Rate – 4 Mbps Bronze	R6E4B
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
201	OPT-E-MAN Committed Information Rate – 5 Mbps Bronze	OPT-E-MAN Committed Information Rate – 5 Mbps Bronze	R6EAB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
202	OPT-E-MAN Committed Information Rate – 8 Mbps Bronze	OPT-E-MAN Committed Information Rate – 8 Mbps Bronze	R6E8B
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		





	Feature Name	Feature Description	Bidder's Product Identifier
<b>203</b>	OPT-E-MAN Committed Information Rate – 10 Mbps Bronze	OPT-E-MAN Committed Information Rate – 10 Mbps Bronze	R6EBB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
<b>204</b>	OPT-E-MAN Committed Information Rate – 20 Mbps Bronze	OPT-E-MAN Committed Information Rate – 20 Mbps Bronze	R6EDB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
<b>205</b>	OPT-E-MAN Committed Information Rate – 50 Mbps Bronze	OPT-E-MAN Committed Information Rate – 50 Mbps Bronze	R6EHB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
<b>206</b>	OPT-E-MAN Committed Information Rate – 100 Mbps Bronze	OPT-E-MAN Committed Information Rate – 100 Mbps Bronze	R6ELB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze		



	Feature Name	Feature Description	Bidder's Product Identifier
	grade of service (GoS).		
207	OPT-E-MAN Committed Information Rate – 150 Mbps Bronze	OPT-E-MAN Committed Information Rate – 150 Mbps Bronze	R6ENB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
208	OPT-E-MAN Committed Information Rate – 250 Mbps Bronze	OPT-E-MAN Committed Information Rate – 250 Mbps Bronze	R6EQB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
209	OPT-E-MAN Committed Information Rate – 500 Mbps Bronze	OPT-E-MAN Committed Information Rate – 500 Mbps Bronze	R6ETB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
210	OPT-E-MAN Committed Information Rate – 600 Mbps Bronze	OPT-E-MAN Committed Information Rate – 600 Mbps Bronze	R6EUB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network		





	Feature Name	Feature Description	Bidder's Product Identifier
		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).	
211	OPT-E-MAN Committed Information Rate – 1000 Mbps Bronze	OPT-E-MAN Committed Information Rate – 1000 Mbps Bronze	R6EZB
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Bronze grade of service (GoS).		
	Silver Grade of Service	Silver Grade of Service	Multiple
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
212	OPT-E-MAN Committed Information Rate – 2 Mbps Silver	OPT-E-MAN Committed Information Rate – 2 Mbps Silver	R6E2C
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
213	OPT-E-MAN Committed Information Rate – 4 Mbps Silver	OPT-E-MAN Committed Information Rate – 4 Mbps Silver	R6E4C
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		



	Feature Name	Feature Description	Bidder's Product Identifier
214	OPT-E-MAN Committed Information Rate – 5 Mbps Silver	OPT-E-MAN Committed Information Rate – 5 Mbps Silver	R6EAC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
215	OPT-E-MAN Committed Information Rate – 8 Mbps Silver	OPT-E-MAN Committed Information Rate – 8 Mbps Silver	R6E8C
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
216	OPT-E-MAN Committed Information Rate – 10 Mbps Silver	OPT-E-MAN Committed Information Rate – 10 Mbps Silver	R6EBC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
217	OPT-E-MAN Committed Information Rate – 20 Mbps Silver	OPT-E-MAN Committed Information Rate – 20 Mbps Silver	R6EDC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
218	OPT-E-MAN Committed Information Rate	OPT-E-MAN Committed Information Rate – 50 Mbps Silver	R6EHC





	Feature Name	Feature Description	Bidder's Product Identifier
	– 50 Mbps Silver		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
219	OPT-E-MAN Committed Information Rate – 100 Mbps Silver	OPT-E-MAN Committed Information Rate – 100 Mbps Silver	R6ELC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
220	OPT-E-MAN Committed Information Rate – 150 Mbps Silver	OPT-E-MAN Committed Information Rate – 150 Mbps Silver	R6ENC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
221	OPT-E-MAN Committed Information Rate – 250 Mbps Silver	OPT-E-MAN Committed Information Rate – 250 Mbps Silver	R6EQC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
222	OPT-E-MAN Committed Information Rate	OPT-E-MAN Committed Information Rate – 500 Mbps Silver	R6ETC





	Feature Name	Feature Description	Bidder's Product Identifier
	– 500 Mbps Silver		
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
223	OPT-E-MAN Committed Information Rate – 600 Mbps Silver	OPT-E-MAN Committed Information Rate – 600 Mbps Silver	R6EUC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
224	OPT-E-MAN Committed Information Rate – 1000 Mbps Silver	OPT-E-MAN Committed Information Rate – 1000 Mbps Silver	R6EZC
	Bidder's Product Description: A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The sum total of the EVCs should not exceed the CIR Silver grade of service (GoS).		
225	OPT-E-MAN Additional MAC Addresses (51-100)	OPT-E-MAN Additional MAC Addresses (51-100)	M2CAX
	Bidder's Product Description: MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per Basic/Basic Plus connection. This optional feature increases that limit to up to 100 MAC addresses per Basic/Basic Plus connection. A technical review via will be necessary to determine if service can be provided and for approval to exceed the limit.		
226	OPT-E-MAN	OPT-E-MAN Repeater Service	VU4





	Feature Name	Feature Description	Bidder's Product Identifier
	Repeater Service		
	Bidder's Product Description: Repeater technology may be used for customers: requesting OPT-E-MANSM service from a service wire center not equipped to provide OPT-E-MANSM service; or customers outside the technical limits of an Ethernet equipped Central Office.		
227	OPT-E-MAN Service Order Change Charge	OPT-E-MAN Service Order Change Charge	NHCEO
	Bidder's Product Description: Service order change charge for pending service orders and is assessed per location:		
228	OPT-E-MAN Miscellaneous Change Charge	OPT-E-MAN Miscellaneous Change Charge	NHCEN
	Bidder's Product Description: Assessed per location when customer requests changes to existing OPT-E-MAN Service		
229	OPT-E-MAN Service Order Cancellation Charge	OPT-E-MAN Service Order Cancellation Charge	OGCEO
	Bidder's Product Description: If the customer cancels service prior to installation being completed, a Cancellation charge (per port, per location) will apply.		
230	OPT-E-MAN Expedite Charge	OPT-E-MAN Expedite Charge	EODEO
	Bidder's Product Description: Expedite change is assessed per location when customer requests service to be installed sooner than 30 days or previously negotiated coordinated/ managed project due date.		
231	OPT-E-MAN Ethernet Virtual Connection (EVC)	OPT-E-MAN Ethernet Virtual Connection (EVC)	OMEVC
	Bidder's Product Description: EVC rate element assessed in ranges of 5-1000 Mbps and provided at no charge. EVCs can be assigned in 1 Mbps increments within each range. Customer may order additional EVCs to establish additional virtual connections over the		





	Feature Name	Feature Description	Bidder's Product Identifier
		same physical connections. When additional EVCs are ordered, the customer must designate the portion of the CIR bandwidth assigned to each EVC	
	OPT-E-WAN	OPT-E-WAN Layer 2 VPN service	Multiple
	<p>Bidder's Product Description:</p> <p>OPT-E-WAN is a Layer 2 VPN service, providing Ethernet switching between customer endpoints. The reach of the service includes in-telco region domestic U.S., out of region domestic US and Global. The basis for the service implementation is VPLS, using the AT&amp;T core MPLS network for transport.</p> <p>The service is a Layer 2 Ethernet VPN. The network ties together the service instances of the customer VPN into an Any to Any forwarding domain. The network makes forwarding decisions based on a combination of Ethernet MAC addresses, VLANs and port configuration depending on the service options selected for a given connection.</p> <p>With VPLS, the provider's network creates the mesh of connections over MPLS. Each customer's Edge (CE) device connects to a Provider Edge (PE) router that looks up the destination Ethernet address and adds a virtual channel label to the packet. Packets are directed through the MPLS Network via MPLS Label Switched Routers to the PE router at the other end. OPT-E-WAN provides two basic customer UNI definitions. These two UNI definitions are referred to as "Per Port" and "Per VLAN" service. These two UNI definitions define the service significance of VLANs on the customer UNI.</p> <p>AT&amp;T OPT-E-WAN is available in speeds of 1-20 Mbps, in 1 Mbps increments, 20-100 Mbps in 10 Mbps increments, 100 Mbps-1G in 50 Mbps increments and 1000 Mbps-10G in 500 Mbps increments.</p>		
232	OEW Port - .5M (IntraState)	OEW Port - .5M (IntraState)	84433
	<p>Bidder's Product Description:</p> <p>OEW Port – Requires Ethernet access, charged separately. (IntraState)</p>		
233	OEW Port - .5M (InterState)	OEW Port - .5M (InterState)	84435
	<p>Bidder's Product Description:</p> <p>OEW Port – Requires Ethernet access, charged separately. (InterState)</p>		
234	OEW Port - 1M (IntraState)	OEW Port - 1M (IntraState)	80326





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
235	OEW Port - 1M (InterState)	OEW Port - 1M (InterState)	80390
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
236	OEW Port - 1.5M (IntraState)	OEW Port - 1.5M (IntraState)	84434
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
237	OEW Port - 1.5M (InterState)	OEW Port - 1.5M (InterState)	84436
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
238	OEW Port - 2M (IntraState)	OEW Port - 2M (IntraState)	80327
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
239	OEW Port - 2M (InterState)	OEW Port - 2M (InterState)	80391
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
240	OEW Port - 3M (IntraState)	OEW Port - 3M (IntraState)	80328
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
241	OEW Port - 3M	OEW Port - 3M (InterState)	80392





	Feature Name	Feature Description	Bidder's Product Identifier
	(InterState)		
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
242	OEW Port - 4M (IntraState)	OEW Port - 4M (IntraState)	80329
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
243	OEW Port - 4M (InterState)	OEW Port - 4M (InterState)	80393
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
244	OEW Port - 5M (IntraState)	OEW Port - 5M (IntraState)	80330
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
245	OEW Port - 5M (InterState)	OEW Port - 5M (InterState)	80394
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
246	OEW Port - 6M (IntraState)	OEW Port - 6M (IntraState)	80331
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
247	OEW Port - 6M (InterState)	OEW Port - 6M (InterState)	80395
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		





	Feature Name	Feature Description	Bidder's Product Identifier
248	OEW Port - 7M (IntraState)	OEW Port - 7M (IntraState)	80332
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
249	OEW Port - 7M (InterState)	OEW Port - 7M (InterState)	80396
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
250	OEW Port - 8M (IntraState)	OEW Port - 8M (IntraState)	80333
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
251	OEW Port - 8M (InterState)	OEW Port - 8M (InterState)	80397
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
252	OEW Port - 9M (IntraState)	OEW Port - 9M (IntraState)	80334
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
253	OEW Port - 9M (InterState)	OEW Port - 9M (InterState)	80398
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
254	OEW Port - 10M (IntraState)	OEW Port - 10M (IntraState)	80335
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	OEW Port – Requires Ethernet access, charged separately. (IntraState)		
255	OEW Port - 10M (InterState)	OEW Port - 10M (InterState)	80399
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
256	OEW Port - 11M (IntraState)	OEW Port - 11M (IntraState)	80336
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
257	OEW Port - 11M (InterState)	OEW Port - 11M (InterState)	80400
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
258	OEW Port - 12M (IntraState)	OEW Port - 12M (IntraState)	80337
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
259	OEW Port - 12M (InterState)	OEW Port - 12M (InterState)	80401
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
260	OEW Port - 13M (IntraState)	OEW Port - 13M (IntraState)	80338
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
261	OEW Port - 13M (InterState)	OEW Port - 13M (InterState)	80402





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
262	OEW Port - 14M (IntraState)	OEW Port - 14M (IntraState)	80339
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
263	OEW Port - 14M (InterState)	OEW Port - 14M (InterState)	80403
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
264	OEW Port - 15M (IntraState)	OEW Port - 15M (IntraState)	80340
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
265	OEW Port - 15M (InterState)	OEW Port - 15M (InterState)	80404
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
266	OEW Port - 16M (IntraState)	OEW Port - 16M (IntraState)	80341
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
267	OEW Port - 16M (InterState)	OEW Port - 16M (InterState)	80405
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
268	OEW Port - 17M	OEW Port - 17M (IntraState)	80342





	Feature Name	Feature Description	Bidder's Product Identifier
	(IntraState)		
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
269	OEW Port - 17M (InterState)	OEW Port - 17M (InterState)	80406
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
270	OEW Port - 18M (IntraState)	OEW Port - 18M (IntraState)	80343
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
271	OEW Port - 18M (InterState)	OEW Port - 18M (InterState)	80407
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
272	OEW Port - 19M (IntraState)	OEW Port - 19M (IntraState)	80344
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
273	OEW Port - 19M (InterState)	OEW Port - 19M (InterState)	80408
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
274	OEW Port - 20M (IntraState)	OEW Port - 20M (IntraState)	80345
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		





	Feature Name	Feature Description	Bidder's Product Identifier
275	OEW Port - 20M (InterState)	OEW Port - 20M (InterState)	80409
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
276	OEW Port - 30M (IntraState)	OEW Port - 30M (IntraState)	80346
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
277	OEW Port - 30M (InterState)	OEW Port - 30M (InterState)	80410
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
278	OEW Port - 40M (IntraState)	OEW Port - 40M (IntraState)	80347
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
279	OEW Port - 40M (InterState)	OEW Port - 40M (InterState)	80411
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
280	OEW Port - 50M (IntraState)	OEW Port - 50M (IntraState)	80348
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
281	OEW Port - 50M (InterState)	OEW Port - 50M (InterState)	80412
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	OEW Port – Requires Ethernet access, charged separately. (InterState)		
282	OEW Port - 60M (IntraState)	OEW Port - 60M (IntraState)	80349
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
283	OEW Port - 60M (InterState)	OEW Port - 60M (InterState)	80413
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
284	OEW Port - 70M (IntraState)	OEW Port - 70M (IntraState)	80350
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
285	OEW Port - 70M (InterState)	OEW Port - 70M (InterState)	80414
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
286	OEW Port - 80M (IntraState)	OEW Port - 80M (IntraState)	80351
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
287	OEW Port - 80M (InterState)	OEW Port - 80M (InterState)	80415
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
288	OEW Port - 90M (IntraState)	OEW Port - 90M (IntraState)	80352





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
289	OEW Port - 90M (InterState)	OEW Port - 90M (InterState)	80416
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
290	OEW Port - 100M (IntraState)	OEW Port - 100M (IntraState)	80353
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
291	OEW Port - 100M (InterState)	OEW Port - 100M (InterState)	80417
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
292	OEW Port - 150M (IntraState)	OEW Port - 150M (IntraState)	80354
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
293	OEW Port - 150M (InterState)	OEW Port - 150M (InterState)	80418
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
294	OEW Port - 200M (IntraState)	OEW Port - 200M (IntraState)	80355





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
295	OEW Port - 200M (InterState)	OEW Port - 200M (InterState)	80419
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
296	OEW Port - 250M (IntraState)	OEW Port - 250M (IntraState)	80356
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
297	OEW Port - 250M (InterState)	OEW Port - 250M (InterState)	80420
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
298	OEW Port - 300M (IntraState)	OEW Port - 300M (IntraState)	80357
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
299	OEW Port - 300M (InterState)	OEW Port - 300M (InterState)	80421
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
300	OEW Port - 350M (IntraState)	OEW Port - 350M (IntraState)	80358





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
301	OEW Port - 350M (InterState)	OEW Port - 350M (InterState)	80422
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
302	OEW Port - 400M (IntraState)	OEW Port - 400M (IntraState)	80359
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
303	OEW Port - 400M (InterState)	OEW Port - 400M (InterState)	80423
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
304	OEW Port - 450M (IntraState)	OEW Port - 450M (IntraState)	80360
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
305	OEW Port - 450M (InterState)	OEW Port - 450M (InterState)	80424
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
306	OEW Port - 500M (IntraState)	OEW Port - 500M (IntraState)	80361





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
307	OEW Port - 500M (InterState)	OEW Port - 500M (InterState)	80425
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
308	OEW Port - 550M (IntraState)	OEW Port - 550M (IntraState)	80362
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
309	OEW Port - 550M (InterState)	OEW Port - 550M (InterState)	80426
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
310	OEW Port - 600M (IntraState)	OEW Port - 600M (IntraState)	80363
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
311	OEW Port - 600M (InterState)	OEW Port - 600M (InterState)	80427
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
312	OEW Port - 650M (IntraState)	OEW Port - 650M (IntraState)	80364





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
313	OEW Port - 650M (InterState)	OEW Port - 650M (InterState)	80428
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
314	OEW Port - 700M (IntraState)	OEW Port - 700M (IntraState)	80365
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
315	OEW Port - 700M (InterState)	OEW Port - 700M (InterState)	80429
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
316	OEW Port - 750M (IntraState)	OEW Port - 750M (IntraState)	80366
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
317	OEW Port - 750M (InterState)	OEW Port - 750M (InterState)	80430
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
318	OEW Port - 800M (IntraState)	OEW Port - 800M (IntraState)	80367





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
319	OEW Port - 800M (InterState)	OEW Port - 800M (InterState)	80431
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
320	OEW Port - 850M (IntraState)	OEW Port - 850M (IntraState)	80368
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
321	OEW Port - 850M (InterState)	OEW Port - 850M (InterState)	80432
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
322	OEW Port - 900M (IntraState)	OEW Port - 900M (IntraState)	80369
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
323	OEW Port - 900M (InterState)	OEW Port - 900M (InterState)	80433
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
324	OEW Port - 950M (IntraState)	OEW Port - 950M (IntraState)	80370





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
325	OEW Port - 950M (InterState)	OEW Port - 950M (InterState)	80434
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
326	OEW Port - 1G (IntraState)	OEW Port - 1G (IntraState)	80371
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
327	OEW Port - 1G (InterState)	OEW Port - 1G (InterState)	80435
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
328	OEW Port - 1500M (IntraState)	OEW Port - 1500M (IntraState)	96777
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
329	OEW Port - 1500M (InterState)	OEW Port - 1500M (InterState)	96776
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
330	OEW Port - 2000M (IntraState)	OEW Port -2000M (IntraState)	96779
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	OEW Port – Requires Ethernet access, charged separately. (IntraState)		
331	OEW Port - 2000M (InterState)	OEW Port - 2000M (InterState)	96778
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
332	OEW Port - 2500M (IntraState)	OEW Port - 2500M (IntraState)	96781
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
333	OEW Port - 2500M (InterState)	OEW Port - 2500M (InterState)	96780
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
334	OEW Port - 3000M (IntraState)	OEW Port - 3000M (IntraState)	96783
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
335	OEW Port - 3000M (InterState)	OEW Port - 3000M (InterState)	96782
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
336	OEW Port - 3500M (IntraState)	OEW Port - 3500M (IntraState)	96785





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
337	OEW Port - 3500M (InterState)	OEW Port - 3500M (InterState)	96784
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
338	OEW Port - 4000M (IntraState)	OEW Port - 4000M (IntraState)	96787
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
339	OEW Port - 4000M (InterState)	OEW Port - 4000M (InterState)	96786
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
340	OEW Port - 4500M (IntraState)	OEW Port - 4500M (IntraState)	96789
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
341	OEW Port - 4500M (InterState)	OEW Port - 4500M (InterState)	96788
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
342	OEW Port - 5000M (IntraState)	OEW Port - 5000M (IntraState)	96791





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
343	OEW Port - 5000M (InterState)	OEW Port - 5000M (InterState)	96790
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
344	OEW Port - 5500M (IntraState)	OEW Port - 5500M (IntraState)	96793
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
345	OEW Port - 5500M (InterState)	OEW Port - 5500M (InterState)	96792
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
346	OEW Port - 6000M (IntraState)	OEW Port - 6000M (IntraState)	96795
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
347	OEW Port - 6000M (InterState)	OEW Port - 6000M (InterState)	96794
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
348	OEW Port - 6500M (IntraState)	OEW Port - 6500M (IntraState)	96797





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
349	OEW Port - 6500M (InterState)	OEW Port - 6500M (InterState)	96796
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
350	OEW Port - 7000M (IntraState)	OEW Port - 7000M (IntraState)	96799
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
351	OEW Port - 7000M (InterState)	OEW Port - 7000M (InterState)	96798
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
352	OEW Port - 7500M (IntraState)	OEW Port - 7500M (IntraState)	96801
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
353	OEW Port - 7500M (InterState)	OEW Port - 7500M (InterState)	96800
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
354	OEW Port - 8000M (IntraState)	OEW Port - 8000M (IntraState)	96803





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
355	OEW Port - 8000M (InterState)	OEW Port - 8000M (InterState)	96802
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
56	OEW Port - 8500M (IntraState)	OEW Port - 8500M (IntraState)	96805
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
357	OEW Port - 8500M (InterState)	OEW Port - 8500M (InterState)	96804
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
358	OEW Port - 9000M (IntraState)	OEW Port - 9000M (IntraState)	96807
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
359	OEW Port - 9000M (InterState)	OEW Port - 9000M (InterState)	96806
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
360	OEW Port - 9500M (IntraState)	OEW Port - 9500M (IntraState)	96809





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
<b>361</b>	OEW Port - 9500M (InterState)	OEW Port - 9500M (InterState)	96808
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
<b>362</b>	OEW Port - 10G (IntraState)	OEW Port - 10G (IntraState)	96811
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (IntraState)		
<b>363</b>	OEW Port - 10G (InterState)	OEW Port - 10G (InterState)	96810
	Bidder's Product Description: OEW Port – Requires Ethernet access, charged separately. (InterState)		
	OPT-E-WAN (OEW) Class of Service Options	OPT-E-WAN (OEW) Class of Service Options	Multiple IDs (see below)
	Bidder's Product Description: OPT-E-WAN (OEW) Class of Service Options.		
	OEW COS 1 – Real Time	COS 1 – Real Time	Multiple IDs (see below)
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
<b>364</b>	OEW CoS 1 – 0.5M	OEW CoS 1 – 0.5M	OW101
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		





	Feature Name	Feature Description	Bidder's Product Identifier
365	OEW CoS 1 – 1M	OEW CoS 1 – 1M	OW102
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
366	OEW CoS 1 – 1.5M	OEW CoS 1 – 1.5M	OW103
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
367	OEW CoS 1 – 2M	OEW CoS 1 – 2M	OW104
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
368	OEW CoS 1 – 3M	OEW CoS 1 – 3M	OW105
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
369	OEW CoS 1 – 4M	OEW CoS 1 – 4M	OW106
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
370	OEW CoS 1 – 5M	OEW CoS 1 – 5M	OW107
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
371	OEW CoS 1 – 6M	OEW CoS 1 – 6M	OW108
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
372	OEW CoS 1 – 7M	OEW CoS 1 – 7M	OW109





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
373	OEW CoS 1 – 8M	OEW CoS 1 – 8M	OW110
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
374	OEW CoS 1 – 9M	OEW CoS 1 – 9M	OW111
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
375	OEW CoS 1 – 10M	OEW CoS 1 – 10M	OW112
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
376	OEW CoS 1 – 11M	OEW CoS 1 – 11M	OW113
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
387	OEW CoS 1 – 12M	OEW CoS 1 – 12M	OW114
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
378	OEW CoS 1 – 13M	OEW CoS 1 – 13M	OW115
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
379	OEW CoS 1 – 14M	OEW CoS 1 – 14M	OW116
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		





	Feature Name	Feature Description	Bidder's Product Identifier
380	OEW CoS 1 – 15M	OEW CoS 1 – 15M	OW117
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
381	OEW CoS 1 – 16M	OEW CoS 1 – 16M	OW118
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
382	OEW CoS 1 – 17M	OEW CoS 1 – 17M	OW119
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
383	OEW CoS 1 – 18M	OEW CoS 1 – 18M	OW120
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
384	OEW CoS 1 – 19M	OEW CoS 1 – 19M	OW121
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
385	OEW CoS 1 – 20M	OEW CoS 1 – 20M	OW122
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
386	OEW CoS 1 – 30M	OEW CoS 1 – 30M	OW123
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
387	OEW CoS 1 – 40M	OEW CoS 1 – 40M	OW124





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
388	OEW CoS 1 – 50M	OEW CoS 1 – 50M	OW125
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
389	OEW CoS 1 – 60M	OEW CoS 1 – 60M	OW126
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
390	OEW CoS 1 – 70M	OEW CoS 1 – 70M	OW127
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
391	OEW CoS 1 – 80M	OEW CoS 1 – 80M	OW128
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
392	OEW CoS 1 – 90M	OEW CoS 1 – 90M	OW129
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
393	OEW CoS 1 – 100M	OEW CoS 1 – 100M	OW130
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
394	OEW CoS 1 – 150M	OEW CoS 1 – 150M	OW131
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		





	Feature Name	Feature Description	Bidder's Product Identifier
395	OEW CoS 1 – 200M	OEW CoS 1 – 200M	OW132
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
396	OEW CoS 1 – 250M	OEW CoS 1 – 250M	OW133
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
397	OEW CoS 1 – 300M	OEW CoS 1 – 300M	OW134
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
398	OEW CoS 1 – 350M	OEW CoS 1 – 350M	OW135
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
399	OEW CoS 1 – 400M	OEW CoS 1 – 400M	OW136
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
400	OEW CoS 1 – 450M	OEW CoS 1 – 450M	OW137
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
401	OEW CoS 1 – 500M	OEW CoS 1 – 500M	OW138
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
402	OEW CoS 1 – 550M	OEW CoS 1 – 550M	OW139





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
403	OEW CoS 1 – 600M	OEW CoS 1 – 600M	OW140
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
404	OEW CoS 1 – 650M	OEW CoS 1 – 650M	OW141
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
405	OEW CoS 1 – 700M	OEW CoS 1 – 700M	OW142
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
406	OEW CoS 1 – 750M	OEW CoS 1 – 750M	OW143
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
407	OEW CoS 1 – 800M	OEW CoS 1 – 800M	OW144
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
408	OEW CoS 1 – 850M	OEW CoS 1 – 850M	OW145
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
409	OEW CoS 1 – 900M	OEW CoS 1 – 900M	OW146
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		





	Feature Name	Feature Description	Bidder's Product Identifier
410	OEW CoS 1 – 950M	OEW CoS 1 – 950M	OW147
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
411	OEW CoS 1 – 1G	OEW CoS 1 – 1G	OW148
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
412	OEW CoS 1 – 1500M	OEW CoS 1 – 1500M	OW149
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
413	OEW CoS 1 – 2000M	OEW CoS 1 – 2000M	OW150
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
414	OEW CoS 1 – 2500M	OEW CoS 1 – 2500M	OW151
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
415	OEW CoS 1 – 3000M	OEW CoS 1 – 3000M	OW152
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
416	OEW CoS 1 – 3500M	OEW CoS 1 – 3500M	OW153
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
417	OEW CoS 1 – 4000M	OEW CoS 1 – 4000M	OW154





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
418	OEW CoS 1 – 4500M	OEW CoS 1 – 4500M	OW155
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
419	OEW CoS 1 – 5000M	OEW CoS 1 – 5000M	OW156
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
420	OEW CoS 1 – 5500M	OEW CoS 1 – 5500M	OW157
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
421	OEW CoS 1 – 6000M	OEW CoS 1 – 6000M	OW158
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
422	OEW CoS 1 – 6500M	OEW CoS 1 – 6500M	OW159
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
423	OEW CoS 1 – 7000M	OEW CoS 1 – 7000M	OW160
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
424	OEW CoS 1 – 7500M	OEW CoS 1 – 7500M	OW161
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		





	Feature Name	Feature Description	Bidder's Product Identifier
425	OEW CoS 1 – 8000M	OEW CoS 1 – 8000M	OW162
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
426	OEW CoS 1 – 8500M	OEW CoS 1 – 8500M	OW163
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
427	OEW CoS 1 – 9000M	OEW CoS 1 – 9000M	OW164
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
428	OEW CoS 1 – 9500M	OEW CoS 1 – 9500M	OW165
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
429	OEW CoS 1 – 10G	OEW CoS 1 – 10G	OW166
	Bidder's Product Description: Real Time - Designed for jitter and latency sensitive application like voice and video		
	OEW COS 2V – Interactive (Video)	COS 2V – Interactive (Video)	Multiple IDs (see below)
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.		
430	OEW CoS 2V – 0.5M	OEW CoS 2V – 0.5M	OWV01
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
431	OEW CoS 2V – 1M	OEW CoS 2V – 1M	OWV02
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
432	OEW CoS 2V – 1.5M	OEW CoS 2V – 1.5M	OWV03
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
433	OEW CoS 2V – 2M	OEW CoS 2V – 2M	OWV04
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
434	OEW CoS 2V – 3M	OEW CoS 2V – 3M	OWV05
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
435	OEW CoS 2V – 4M	OEW CoS 2V – 4M	OWV06
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
436	OEW CoS 2V – 5M	OEW CoS 2V – 5M	OWV07
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
437	OEW CoS 2V – 6M	OEW CoS 2V – 6M	OWV08





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>438</b>	OEW CoS 2V – 7M	OEW CoS 2V – 7M	OWV09
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>439</b>	OEW CoS 2V – 8M	OEW CoS 2V – 8M	OWV10
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>440</b>	OEW CoS 2V – 9M	OEW CoS 2V – 9M	OWV11
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>441</b>	OEW CoS 2V – 10M	OEW CoS 2V – 10M	OWV12
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>442</b>	OEW CoS 2V – 11M	OEW CoS 2V – 11M	OWV13
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>443</b>	OEW CoS 2V – 12M	OEW CoS 2V – 12M	OWV14
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
444	OEW CoS 2V – 13M	OEW CoS 2V – 13M	OWV15
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
445	OEW CoS 2V – 14M	OEW CoS 2V – 14M	OWV16
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
446	OEW CoS 2V – 15M	OEW CoS 2V – 15M	OWV17
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
447	OEW CoS 2V – 16M	OEW CoS 2V – 16M	OWV18
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
448	OEW CoS 2V – 17M	OEW CoS 2V – 17M	OWV19
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
449	OEW CoS 2V – 18M	OEW CoS 2V – 18M	OWV20
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>450</b>	OEW CoS 2V – 19M	OEW CoS 2V – 19M	OWV21
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>451</b>	OEW CoS 2V – 20M	OEW CoS 2V – 20M	OWV22
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>452</b>	OEW CoS 2V – 30M	OEW CoS 2V – 30M	OWV23
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>453</b>	OEW CoS 2V – 40M	OEW CoS 2V – 40M	OWV24
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>454</b>	OEW CoS 2V – 50M	OEW CoS 2V – 50M	OWV25
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>455</b>	OEW CoS 2V – 60M	OEW CoS 2V – 60M	OWV26
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
<b>456</b>	OEW CoS 2V – 70M	OEW CoS 2V – 70M	OWV27





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
457	OEW CoS 2V – 80M	OEW CoS 2V – 80M	OWV28
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
458	OEW CoS 2V – 90M	OEW CoS 2V – 90M	OWV29
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
459	OEW CoS 2V – 100M	OEW CoS 2V – 100M	OWV30
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
460	OEW CoS 2V – 150M	OEW CoS 2V – 150M	OWV31
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
461	OEW CoS 2V – 200M	OEW CoS 2V – 200M	OWV32
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
462	OEW CoS 2V – 250M	OEW CoS 2V – 250M	OWV33
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
463	OEW CoS 2V – 300M	OEW CoS 2V – 300M	OWV34
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
464	OEW CoS 2V – 350M	OEW CoS 2V – 350M	OWV35
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
465	OEW CoS 2V – 400M	OEW CoS 2V – 400M	OWV36
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
466	OEW CoS 2V – 450M	OEW CoS 2V – 450M	OWV37
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
467	OEW CoS 2V – 500M	OEW CoS 2V – 500M	OWV38
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
468	OEW CoS 2V – 550M	OEW CoS 2V – 550M	OWV39
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
469	OEW CoS 2V – 600M	OEW CoS 2V – 600M	OWV40
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
470	OEW CoS 2V – 650M	OEW CoS 2V – 650M	OWV41
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
471	OEW CoS 2V – 700M	OEW CoS 2V – 700M	OWV42
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
472	OEW CoS 2V – 750M	OEW CoS 2V – 750M	OWV43
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
473	OEW CoS 2V – 800M	OEW CoS 2V – 800M	OWV44
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
474	OEW CoS 2V – 850M	OEW CoS 2V – 850M	OWV45
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
475	OEW CoS 2V – 900M	OEW CoS 2V – 900M	OWV46





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
476	OEW CoS 2V – 950M	OEW CoS 2V – 950M	OWV47
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
477	OEW CoS 2V – 1G	OEW CoS 2V – 1G	OWV48
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
478	OEW CoS 2V – 1500M	OEW CoS 2V – 1500M	OWV49
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
479	OEW CoS 2V – 2000M	OEW CoS 2V – 2000M	OWV50
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
480	OEW CoS 2V – 2500M	OEW CoS 2V – 2500M	OWV51
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
481	OEW CoS 2V – 3000M	OEW CoS 2V – 3000M	OWV52
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
482	OEW CoS 2V – 3500M	OEW CoS 2V – 3500M	OWV53
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
483	OEW CoS 2V – 4000M	OEW CoS 2V – 4000M	OWV54
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
484	OEW CoS 2V – 4500M	OEW CoS 2V – 4500M	OWV55
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
485	OEW CoS 2V – 5000M	OEW CoS 2V – 5000M	OWV56
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
486	OEW CoS 2V – 5500M	OEW CoS 2V – 5500M	OWV57
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
487	OEW CoS 2V – 6000M	OEW CoS 2V – 6000M	OWV58
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
488	OEW CoS 2V – 6500M	OEW CoS 2V – 6500M	OWV59
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
489	OEW CoS 2V – 7000M	OEW CoS 2V – 7000M	OWV60
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
490	OEW CoS 2V – 7500M	OEW CoS 2V – 7500M	OWV61
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
491	OEW CoS 2V – 8000M	OEW CoS 2V – 8000M	OWV62
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
492	OEW CoS 2V – 8500M	OEW CoS 2V – 8500M	OWV63
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
493	OEW CoS 2V – 9000M	OEW CoS 2V – 9000M	OWV64
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
494	OEW CoS 2V – 9500M	OEW CoS 2V – 9500M	OWV65





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
495	OEW CoS 2V – 10G	OEW CoS 2V – 10G	OWV66
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
	COS 2 – Business Critical High	COS 2 – Business Critical High	Multiple IDs (see below)
	Bidder's Product Description: Business Critical High - Designed to carry highest priority business applications.		
496	OEW CoS 2 – 0.5M	OEW CoS 2 – 0.5M	OW201
	Bidder's Product Description: Business Critical High - Designed to carry highest priority business applications.		
497	OEW CoS 2 – 1M	OEW CoS 2 – 1M	OW202
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
498	OEW CoS 2 – 1.5M	OEW CoS 2 – 1.5M	OW203
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
499	OEW CoS 2 – 2M	OEW CoS 2 – 2M	OW204
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
500	OEW CoS 2 – 3M	OEW CoS 2 – 3M	OW205
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
501	OEW CoS 2 – 4M	OEW CoS 2 – 4M	OW206
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
502	OEW CoS 2 – 5M	OEW CoS 2 – 5M	OW207
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
503	OEW CoS 2 – 6M	OEW CoS 2 – 6M	OW208
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
504	OEW CoS 2 – 7M	OEW CoS 2 – 7M	OW209
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
505	OEW CoS 2 – 8M	OEW CoS 2 – 8M	OW210
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
506	OEW CoS 2 – 9M	OEW CoS 2 – 9M	OW211
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
507	OEW CoS 2 – 10M	OEW CoS 2 – 10M	OW212
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
508	OEW CoS 2 – 11M	OEW CoS 2 – 11M	OW213
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
509	OEW CoS 2 – 12M	OEW CoS 2 – 12M	OW214
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
510	OEW CoS 2 – 13M	OEW CoS 2 – 13M	OW215
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
511	OEW CoS 2 – 14M	OEW CoS 2 – 14M	OW216
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
512	OEW CoS 2 – 15M	OEW CoS 2 – 15M	OW217





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
513	OEW CoS 2 – 16M	OEW CoS 2 – 16M	OW218
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
514	OEW CoS 2 – 17M	OEW CoS 2 – 17M	OW219
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
515	OEW CoS 2 – 18M	OEW CoS 2 – 18M	OW220
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
516	OEW CoS 2 – 19M	OEW CoS 2 – 19M	OW221
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
517	OEW CoS 2 – 20M	OEW CoS 2 – 20M	OW222
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
518	OEW CoS 2 – 30M	OEW CoS 2 – 30M	OW223
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
519	OEW CoS 2 – 40M	OEW CoS 2 – 40M	OW224
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
520	OEW CoS 2 – 50M	OEW CoS 2 – 50M	OW225
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
521	OEW CoS 2 – 60M	OEW CoS 2 – 60M	OW226
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
522	OEW CoS 2 – 70M	OEW CoS 2 – 70M	OW227
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
523	OEW CoS 2 – 80M	OEW CoS 2 – 80M	OW228
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
524	OEW CoS 2 – 90M	OEW CoS 2 – 90M	OW229
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
525	OEW CoS 2 – 100M	OEW CoS 2 – 100M	OW230
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
526	OEW CoS 2 – 150M	OEW CoS 2 – 150M	OW231
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
527	OEW CoS 2 – 200M	OEW CoS 2 – 200M	OW232
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
528	OEW CoS 2 – 250M	OEW CoS 2 – 250M	OW233
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
529	OEW CoS 2 – 300M	OEW CoS 2 – 300M	OW234
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
530	OEW CoS 2 – 350M	OEW CoS 2 – 350M	OW235
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
531	OEW CoS 2 – 400M	OEW CoS 2 – 400M	OW236





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
532	OEW CoS 2 – 450M	OEW CoS 2 – 450M	OW237
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
533	OEW CoS 2 – 500M	OEW CoS 2 – 500M	OW238
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
534	OEW CoS 2 – 550M	OEW CoS 2 – 550M	OW239
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
535	OEW CoS 2 – 600M	OEW CoS 2 – 600M	OW240
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
536	OEW CoS 2 – 650M	OEW CoS 2 – 650M	OW241
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
537	OEW CoS 2 – 700M	OEW CoS 2 – 700M	OW242
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
538	OEW CoS 2 – 750M	OEW CoS 2 – 750M	OW243
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
539	OEW CoS 2 – 800M	OEW CoS 2 – 800M	OW244
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
540	OEW CoS 2 – 850M	OEW CoS 2 – 850M	OW245
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
541	OEW CoS 2 – 900M	OEW CoS 2 – 900M	OW246
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
542	OEW CoS 2 – 950M	OEW CoS 2 – 950M	OW247
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
543	OEW CoS 2 – 1G	OEW CoS 2 – 1G	OW248
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		





	Feature Name	Feature Description	Bidder's Product Identifier
544	OEW CoS 2 – 1500M	OEW CoS 2 – 1500M	OW249
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
545	OEW CoS 2 – 2000M	OEW CoS 2 – 2000M	OW250
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
546	OEW CoS 2 – 2500M	OEW CoS 2 – 2500M	OW251
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
547	OEW CoS 2 – 3000M	OEW CoS 2 – 3000M	OW252
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
548	OEW CoS 2 – 3500M	OEW CoS 2 – 3500M	OW253
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
549	OEW CoS 2 – 4000M	OEW CoS 2 – 4000M	OW254
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
550	OEW CoS 2 – 4500M	OEW CoS 2 – 4500M	OW255





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
551	OEW CoS 2 – 5000M	OEW CoS 2 – 5000M	OW256
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
552	OEW CoS 2 – 5500M	OEW CoS 2 – 5500M	OW257
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
553	OEW CoS 2 – 6000M	OEW CoS 2 – 6000M	OW258
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
554	OEW CoS 2 – 6500M	OEW CoS 2 – 6500M	OW259
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
555	OEW CoS 2 – 7000M	OEW CoS 2 – 7000M	OW260
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
556	OEW CoS 2 – 7500M	OEW CoS 2 – 7500M	OW261
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter		





	Feature Name	Feature Description	Bidder's Product Identifier
		sensitive applications like video when OEW CoS1 is already in use.	
557	OEW CoS 2 – 8000M	OEW CoS 2 – 8000M	OW262
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
558	OEW CoS 2 – 8500M	OEW CoS 2 – 8500M	OW263
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
559	OEW CoS 2 – 9000M	OEW CoS 2 – 9000M	OW264
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
560	OEW CoS 2 – 9500M	OEW CoS 2 – 9500M	OW265
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
561	OEW CoS 2 – 10G	OEW CoS 2 – 10G	OW266
	Bidder's Product Description: Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when OEW CoS1 is already in use.		
	COS 3 – Business Critical Medium	COS 3 – Business Critical Medium	Multiple IDs (see below)
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
562	OEW CoS 3 – 0.5M	OEW CoS 3 – 0.5M	OW301
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
563	OEW CoS 3 – 1M	OEW CoS 3 – 1M	OW302
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
564	OEW CoS 3 – 1.5M	OEW CoS 3 – 1.5M	OW303
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
565	OEW CoS 3 – 2M	OEW CoS 3 – 2M	OW304
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
566	OEW CoS 3 – 3M	OEW CoS 3 – 3M	OW305
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
567	OEW CoS 3 – 4M	OEW CoS 3 – 4M	OW306
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
568	OEW CoS 3 – 5M	OEW CoS 3 – 5M	OW307
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
569	OEW CoS 3 – 6M	OEW CoS 3 – 6M	OW308





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
570	OEW CoS 3 – 7M	OEW CoS 3 – 7M	OW309
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
571	OEW CoS 3 – 8M	OEW CoS 3 – 8M	OW310
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
572	OEW CoS 3 – 9M	OEW CoS 3 – 9M	OW311
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
573	OEW CoS 3 – 10M	OEW CoS 3 – 10M	OW312
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
574	OEW CoS 3 – 11M	OEW CoS 3 – 11M	OW313
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
575	OEW CoS 3 – 12M	OEW CoS 3 – 12M	OW314
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
576	OEW CoS 3 – 13M	OEW CoS 3 – 13M	OW315
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
577	OEW CoS 3 – 14M	OEW CoS 3 – 14M	OW316
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
578	OEW CoS 3 – 15M	OEW CoS 3 – 15M	OW317
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
579	OEW CoS 3 – 16M	OEW CoS 3 – 16M	OW318
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
580	OEW CoS 3 – 17M	OEW CoS 3 – 17M	OW319
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
581	OEW CoS 3 – 18M	OEW CoS 3 – 18M	OW320
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
582	OEW CoS 3 – 19M	OEW CoS 3 – 19M	OW321
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
583	OEW CoS 3 – 20M	OEW CoS 3 – 20M	OW322
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
584	OEW CoS 3 – 30M	OEW CoS 3 – 30M	OW323





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
585	OEW CoS 3 – 40M	OEW CoS 3 – 40M	OW324
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
586	OEW CoS 3 – 50M	OEW CoS 3 – 50M	OW325
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
587	OEW CoS 3 – 60M	OEW CoS 3 – 60M	OW326
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
588	OEW CoS 3 – 70M	OEW CoS 3 – 70M	OW327
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
589	OEW CoS 3 – 80M	OEW CoS 3 – 80M	OW328
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
590	OEW CoS 3 – 90M	OEW CoS 3 – 90M	OW329
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
591	OEW CoS 3 – 100M	OEW CoS 3 – 100M	OW330
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
592	OEW CoS 3 – 150M	OEW CoS 3 – 150M	OW331
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
593	OEW CoS 3 – 200M	OEW CoS 3 – 200M	OW332
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
594	OEW CoS 3 – 250M	OEW CoS 3 – 250M	OW333
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
595	OEW CoS 3 – 300M	OEW CoS 3 – 300M	OW334
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
596	OEW CoS 3 – 350M	OEW CoS 3 – 350M	OW335
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
597	OEW CoS 3 – 400M	OEW CoS 3 – 400M	OW336
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
598	OEW CoS 3 – 450M	OEW CoS 3 – 450M	OW337
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
599	OEW CoS 3 – 500M	OEW CoS 3 – 500M	OW338





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
600	OEW CoS 3 – 550M	OEW CoS 3 – 550M	OW339
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
601	OEW CoS 3 – 600M	OEW CoS 3 – 600M	OW340
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
602	OEW CoS 3 – 650M	OEW CoS 3 – 650M	OW341
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
603	OEW CoS 3 – 700M	OEW CoS 3 – 700M	OW342
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
604	OEW CoS 3 – 750M	OEW CoS 3 – 750M	OW343
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
605	OEW CoS 3 – 800M	OEW CoS 3 – 800M	OW344
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
606	OEW CoS 3 – 850M	OEW CoS 3 – 850M	OW345
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
607	OEW CoS 3 – 900M	OEW CoS 3 – 900M	OW346
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
608	OEW CoS 3 – 950M	OEW CoS 3 – 950M	OW347
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
609	OEW CoS 3 – 1G	OEW CoS 3 – 1G	OW348
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
610	OEW CoS 3 – 1500M	OEW CoS 3 – 1500M	OW349
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
611	OEW CoS 3 – 2000M	OEW CoS 3 – 2000M	OW350
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
612	OEW CoS 3 – 2500M	OEW CoS 3 – 2500M	OW351
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
613	OEW CoS 3 – 3000M	OEW CoS 3 – 3000M	OW352
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
614	OEW CoS 3 – 3500M	OEW CoS 3 – 3500M	OW353





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
615	OEW CoS 3 – 4000M	OEW CoS 3 – 4000M	OW354
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
616	OEW CoS 3 – 4500M	OEW CoS 3 – 4500M	OW355
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
617	OEW CoS 3 – 5000M	OEW CoS 3 – 5000M	OW356
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
618	OEW CoS 3 – 5500M	OEW CoS 3 – 5500M	OW357
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
619	OEW CoS 3 – 6000M	OEW CoS 3 – 6000M	OW358
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
620	OEW CoS 3 – 6500M	OEW CoS 3 – 6500M	OW359
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
621	OEW CoS 3 – 7000M	OEW CoS 3 – 7000M	OW360
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
622	OEW CoS 3 – 7500M	OEW CoS 3 – 7500M	OW361
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
623	OEW CoS 3 – 8000M	OEW CoS 3 – 8000M	OW362
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
624	OEW CoS 3 – 8500M	OEW CoS 3 – 8500M	OW363
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
625	OEW CoS 3 – 9000M	OEW CoS 3 – 9000M	OW364
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
626	OEW CoS 3 – 9500M	OEW CoS 3 – 9500M	OW365
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
627	OEW CoS 3 – 10G	OEW CoS 3 – 10G	OW366
	Bidder's Product Description: Business Critical Medium - Designed to carry high priority business applications		
	OPT-E-WAN (OEW) Per Packet Class Of Service (PPCoS) Options	Per Packet Class Of Service (PPCoS) Options	Multiple IDs (see below)
	Bidder's Product Description: Per Packet Class Of Service (PPCoS) Options		





	Feature Name	Feature Description	Bidder's Product Identifier
	PPCoS - Multimedia High	PPCoS - Multimedia High	Multiple IDs (see below)
	Bidder's Product Description: PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
628	OEW PPCoS (MMH) – 0.5M	OEW PPCoS (MMH) – 0.5M	OW501
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
629	OEW PPCoS (MMH) – 1M	OEW PPCoS (MMH) – 1M	OW502
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
630	OEW PPCoS (MMH) – 1.5M	OEW PPCoS (MMH) – 1.5M	OW503
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
631	OEW PPCoS (MMH) – 2M	OEW PPCoS (MMH) – 2M	OW504
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
632	OEW PPCoS (MMH) – 3M	OEW PPCoS (MMH) – 3M	OW505
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
633	OEW PPC0S (MMH) – 4M	OEW PPC0S (MMH) – 4M	OW506
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
634	OEW PPC0S (MMH) – 5M	OEW PPC0S (MMH) – 5M	OW507
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
635	OEW PPC0S (MMH) – 6M	OEW PPC0S (MMH) – 6M	OW508
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
636	OEW PPC0S (MMH) – 7M	OEW PPC0S (MMH) – 7M	OW509
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
637	OEW PPC0S (MMH) – 8M	OEW PPC0S (MMH) – 8M	OW510
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
638	OEW PPC0S (MMH) – 9M	OEW PPC0S (MMH) – 9M	OW511
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
639	OEW PPC0S (MMH) – 10M	OEW PPC0S (MMH) – 10M	OW512





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
640	OEW PPC0S (MMH) – 11M	OEW PPC0S (MMH) – 11M	OW513
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
641	OEW PPC0S (MMH) – 12M	OEW PPC0S (MMH) – 12M	OW514
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
642	OEW PPC0S (MMH) – 13M	OEW PPC0S (MMH) – 13M	OW515
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
643	OEW PPC0S (MMH) – 14M	OEW PPC0S (MMH) – 14M	OW516
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
644	OEW PPC0S (MMH) – 15M	OEW PPC0S (MMH) – 15M	OW517
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
645	OEW PPC0S (MMH) – 16M	OEW PPC0S (MMH) – 16M	OW518
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
		or may carry jitter sensitive applications like video.	
646	OEW PPC0S (MMH) – 17M	OEW PPC0S (MMH) – 17M	OW519
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
647	OEW PPC0S (MMH) – 18M	OEW PPC0S (MMH) – 18M	OW520
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
648	OEW PPC0S (MMH) – 19M	OEW PPC0S (MMH) – 19M	OW521
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
649	OEW PPC0S (MMH) – 20M	OEW PPC0S (MMH) – 20M	OW522
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
650	OEW PPC0S (MMH) – 30M	OEW PPC0S (MMH) – 30M	OW523
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
651	OEW PPC0S (MMH) – 40M	OEW PPC0S (MMH) – 40M	OW524
	Bidder's Product Description: OEW PPC0S - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
652	OEW PPCoS (MMH) – 50M	OEW PPCoS (MMH) – 50M	OW525
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
653	OEW PPCoS (MMH) – 60M	OEW PPCoS (MMH) – 60M	OW526
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
654	OEW PPCoS (MMH) – 70M	OEW PPCoS (MMH) – 70M	OW527
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
655	OEW PPCoS (MMH) – 80M	OEW PPCoS (MMH) – 80M	OW528
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
656	OEW PPCoS (MMH) – 90M	OEW PPCoS (MMH) – 90M	OW529
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
657	OEW PPCoS (MMH) – 100M	OEW PPCoS (MMH) – 100M	OW530
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
658	OEW PPCoS (MMH) – 150M	OEW PPCoS (MMH) – 150M	OW531





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>659</b>	OEW PPCoS (MMH) – 200M	OEW PPCoS (MMH) – 200M	OW532
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>660</b>	OEW PPCoS (MMH) – 250M	OEW PPCoS (MMH) – 250M	OW533
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>661</b>	OEW PPCoS (MMH) – 300M	OEW PPCoS (MMH) – 300M	OW534
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>662</b>	OEW PPCoS (MMH) – 350M	OEW PPCoS (MMH) – 350M	OW535
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>663</b>	OEW PPCoS (MMH) – 400M	OEW PPCoS (MMH) – 400M	OW536
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>664</b>	OEW PPCoS (MMH) – 450M	OEW PPCoS (MMH) – 450M	OW537
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
		or may carry jitter sensitive applications like video.	
665	OEW PPCoS (MMH) – 500M	OEW PPCoS (MMH) – 500M	OW538
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
666	OEW PPCoS (MMH) – 550M	OEW PPCoS (MMH) – 550M	OW539
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
667	OEW PPCoS (MMH) – 600M	OEW PPCoS (MMH) – 600M	OW540
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
668	OEW PPCoS (MMH) – 650M	OEW PPCoS (MMH) – 650M	OW541
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
669	OEW PPCoS (MMH) – 700M	OEW PPCoS (MMH) – 700M	OW542
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
670	OEW PPCoS (MMH) – 750M	OEW PPCoS (MMH) – 750M	OW543
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
671	OEW PPCoS (MMH) – 800M	OEW PPCoS (MMH) – 800M	OW544
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
672	OEW PPCoS (MMH) – 850M	OEW PPCoS (MMH) – 850M	OW545
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
673	OEW PPCoS (MMH) – 900M	OEW PPCoS (MMH) – 900M	OW546
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
674	OEW PPCoS (MMH) – 950M	OEW PPCoS (MMH) – 950M	OW547
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
675	OEW PPCoS (MMH) – 1G	OEW PPCoS (MMH) – 1G	OW548
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
676	OEW PPCoS (MMH) – 1500M	OEW PPCoS (MMH) – 1500M	OW549
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
677	OEW PPCoS (MMH) – 2000M	OEW PPCoS (MMH) – 2000M	OW550





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>678</b>	OEW PPCoS (MMH) – 2500M	OEW PPCoS (MMH) – 2500M	OW551
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>679</b>	OEW PPCoS (MMH) – 3000M	OEW PPCoS (MMH) – 3000M	OW552
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>680</b>	OEW PPCoS (MMH) – 3500M	OEW PPCoS (MMH) – 3500M	OW553
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>681</b>	OEW PPCoS (MMH) – 4000M	OEW PPCoS (MMH) – 4000M	OW554
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>682</b>	OEW PPCoS (MMH) – 4500M	OEW PPCoS (MMH) – 4500M	OW555
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
<b>683</b>	OEW PPCoS (MMH) – 5000M	OEW PPCoS (MMH) – 5000M	OW556
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications		





	Feature Name	Feature Description	Bidder's Product Identifier
		or may carry jitter sensitive applications like video.	
684	OEW PPCoS (MMH) – 5500M	OEW PPCoS (MMH) – 5500M	OW557
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
685	OEW PPCoS (MMH) – 6000M	OEW PPCoS (MMH) – 6000M	OW558
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
686	OEW PPCoS (MMH) – 6500M	OEW PPCoS (MMH) – 6500M	OW559
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
687	OEW PPCoS (MMH) – 7000M	OEW PPCoS (MMH) – 7000M	OW560
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
688	OEW PPCoS (MMH) – 7500M	OEW PPCoS (MMH) – 7500M	OW561
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
689	OEW PPCoS (MMH) – 8000M	OEW PPCoS (MMH) – 8000M	OW562
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
690	OEW PPCoS (MMH) – 8500M	OEW PPCoS (MMH) – 8500M	OW563
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
691	OEW PPCoS (MMH) – 9000M	OEW PPCoS (MMH) – 9000M	OW564
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
692	OEW PPCoS (MMH) – 9500M	OEW PPCoS (MMH) – 9500M	OW565
	Bidder's Product Description: OEW PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
693	OEW PPCoS (MMH) – 10G	OEW PPCoS (MMH) – 10G	OW566
	Bidder's Product Description: PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.		
	PPCoS - Multimedia Standard	PPCoS - Multimedia Standard	Multiple IDs (see below)
	Bidder's Product Description: PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
694	OEW PPCoS (MMS) – 0.5M	OEW PPCoS (MMS) – 0.5M	OW601
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
695	OEW PPCoS (MMS) – 1M	OEW PPCoS (MMS) – 1M	OW602
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
696	OEW PPCoS (MMS) – 1.5M	OEW PPCoS (MMS) – 1.5M	OW603
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
697	OEW PPCoS (MMS) – 2M	OEW PPCoS (MMS) – 2M	OW604
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
698	OEW PPCoS (MMS) – 3M	OEW PPCoS (MMS) – 3M	OW605
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
699	OEW PPCoS (MMS) – 4M	OEW PPCoS (MMS) – 4M	OW606
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
700	OEW PPCoS (MMS) – 5M	OEW PPCoS (MMS) – 5M	OW607
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
701	OEW PPCoS (MMS) – 6M	OEW PPCoS (MMS) – 6M	OW608





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>702</b>	OEW PPCoS (MMS) – 7M	OEW PPCoS (MMS) – 7M	OW609
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>703</b>	OEW PPCoS (MMS) – 8M	OEW PPCoS (MMS) – 8M	OW610
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>704</b>	OEW PPCoS (MMS) – 9M	OEW PPCoS (MMS) – 9M	OW611
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>705</b>	OEW PPCoS (MMS) – 10M	OEW PPCoS (MMS) – 10M	OW612
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>706</b>	OEW PPCoS (MMS) – 11M	OEW PPCoS (MMS) – 11M	OW613
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>707</b>	OEW PPCoS (MMS) – 12M	OEW PPCoS (MMS) – 12M	OW614
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business		





	Feature Name	Feature Description	Bidder's Product Identifier
		applications or may carry jitter sensitive applications like video.	
708	OEW PPCoS (MMS) – 13M	OEW PPCoS (MMS) – 13M	OW615
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
709	OEW PPCoS (MMS) – 14M	OEW PPCoS (MMS) – 14M	OW616
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
710	OEW PPCoS (MMS) – 15M	OEW PPCoS (MMS) – 15M	OW617
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
711	OEW PPCoS (MMS) – 16M	OEW PPCoS (MMS) – 16M	OW618
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
712	OEW PPCoS (MMS) – 17M	OEW PPCoS (MMS) – 17M	OW619
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
713	OEW PPCoS (MMS) – 18M	OEW PPCoS (MMS) – 18M	OW620
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
714	OEW PPCoS (MMS) – 19M	OEW PPCoS (MMS) – 19M	OW621
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
715	OEW PPCoS (MMS) – 20M	OEW PPCoS (MMS) – 20M	OW622
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
716	OEW PPCoS (MMS) – 30M	OEW PPCoS (MMS) – 30M	OW623
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
717	OEW PPCoS (MMS) – 40M	OEW PPCoS (MMS) – 40M	OW624
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
718	OEW PPCoS (MMS) – 50M	OEW PPCoS (MMS) – 50M	OW625
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
719	OEW PPCoS (MMS) – 60M	OEW PPCoS (MMS) – 60M	OW626
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
720	OEW PPCoS (MMS) – 70M	OEW PPCoS (MMS) – 70M	OW627





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
721	OEW PPCoS (MMS) – 80M	OEW PPCoS (MMS) – 80M	OW628
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
722	OEW PPCoS (MMS) – 90M	OEW PPCoS (MMS) – 90M	OW629
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
723	OEW PPCoS (MMS) – 100M	OEW PPCoS (MMS) – 100M	OW630
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
724	OEW PPCoS (MMS) – 150M	OEW PPCoS (MMS) – 150M	OW631
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
725	OEW PPCoS (MMS) – 200M	OEW PPCoS (MMS) – 200M	OW632
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
726	OEW PPCoS (MMS) – 250M	OEW PPCoS (MMS) – 250M	OW633
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business		





	Feature Name	Feature Description	Bidder's Product Identifier
		applications or may carry jitter sensitive applications like video.	
727	OEW PPCoS (MMS) – 300M	OEW PPCoS (MMS) – 300M	OW634
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
728	OEW PPCoS (MMS) – 350M	OEW PPCoS (MMS) – 350M	OW635
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
729	OEW PPCoS (MMS) – 400M	OEW PPCoS (MMS) – 400M	OW636
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
730	OEW PPCoS (MMS) – 450M	OEW PPCoS (MMS) – 450M	OW637
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
731	OEW PPCoS (MMS) – 500M	OEW PPCoS (MMS) – 500M	OW638
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
732	OEW PPCoS (MMS) – 550M	OEW PPCoS (MMS) – 550M	OW639
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		





	Feature Name	Feature Description	Bidder's Product Identifier
733	OEW PPCoS (MMS) – 600M	OEW PPCoS (MMS) – 600M	OW640
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
734	OEW PPCoS (MMS) – 650M	OEW PPCoS (MMS) – 650M	OW641
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
735	OEW PPCoS (MMS) – 700M	OEW PPCoS (MMS) – 700M	OW642
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
736	OEW PPCoS (MMS) – 750M	OEW PPCoS (MMS) – 750M	OW643
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
737	OEW PPCoS (MMS) – 800M	OEW PPCoS (MMS) – 800M	OW644
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
738	OEW PPCoS (MMS) – 850M	OEW PPCoS (MMS) – 850M	OW645
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
739	OEW PPCoS (MMS) – 900M	OEW PPCoS (MMS) – 900M	OW646





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>740</b>	OEW PPCoS (MMS) – 950M	OEW PPCoS (MMS) – 950M	OW647
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>741</b>	OEW PPCoS (MMS) – 1G	OEW PPCoS (MMS) – 1G	OW648
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>742</b>	OEW PPCoS (MMS) – 1500M	OEW PPCoS (MMS) – 1500M	OW649
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>743</b>	OEW PPCoS (MMS) – 2000M	OEW PPCoS (MMS) – 2000M	OW650
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>744</b>	OEW PPCoS (MMS) – 2500M	OEW PPCoS (MMS) – 2500M	OW651
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>745</b>	OEW PPCoS (MMS) – 3000M	OEW PPCoS (MMS) – 3000M	OW652
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business		





	Feature Name	Feature Description	Bidder's Product Identifier
		applications or may carry jitter sensitive applications like video.	
746	OEW PPCoS (MMS) – 3500M	OEW PPCoS (MMS) – 3500M	OW653
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
747	OEW PPCoS (MMS) – 4000M	OEW PPCoS (MMS) – 4000M	OW654
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
748	OEW PPCoS (MMS) – 4500M	OEW PPCoS (MMS) – 4500M	OW655
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
749	OEW PPCoS (MMS) – 5000M	OEW PPCoS (MMS) – 5000M	OW656
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
750	OEW PPCoS (MMS) – 5500M	OEW PPCoS (MMS) – 5500M	OW657
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
751	OEW PPCoS (MMS) – 6000M	OEW PPCoS (MMS) – 6000M	OW658
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>752</b>	OEW PPCoS (MMS) – 6500M	OEW PPCoS (MMS) – 6500M	OW659
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>753</b>	OEW PPCoS (MMS) – 7000M	OEW PPCoS (MMS) – 7000M	OW660
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>754</b>	OEW PPCoS (MMS) – 7500M	OEW PPCoS (MMS) – 7500M	OW661
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>755</b>	OEW PPCoS (MMS) – 8000M	OEW PPCoS (MMS) – 8000M	OW662
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>756</b>	OEW PPCoS (MMS) – 8500M	OEW PPCoS (MMS) – 8500M	OW663
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>757</b>	OEW PPCoS (MMS) – 9000M	OEW PPCoS (MMS) – 9000M	OW664
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
<b>758</b>	OEW PPCoS (MMS) – 9500M	OEW PPCoS (MMS) – 9500M	OW665





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
759	OEW PPCoS (MMS) – 10G	OEW PPCoS (MMS) – 10G	OW666
	Bidder's Product Description: OEW PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.		
	PPCoS - Critical Data	PPCoS - Critical Data	Multiple IDs (see below)
	Bidder's Product Description: PPCoS – Critical Data - Designed to carry critical business applications.		
760	OEW PPCoS (CD) – 0.5M	OEW PPCoS (CD) – 0.5M	OW701
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
761	OEW PPCoS (CD) – 1M	OEW PPCoS (CD) – 1M	OW702
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
762	OEW PPCoS (CD) – 1.5M	OEW PPCoS (CD) – 1.5M	OW703
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
763	OEW PPCoS (CD) – 2M	OEW PPCoS (CD) – 2M	OW704
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
764	OEW PPCoS (CD) – 3M	OEW PPCoS (CD) – 3M	OW705





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
765	OEW PPCoS (CD) – 4M	OEW PPCoS (CD) – 4M	OW706
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
766	OEW PPCoS (CD) – 5M	OEW PPCoS (CD) – 5M	OW707
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
767	OEW PPCoS (CD) – 6M	OEW PPCoS (CD) – 6M	OW708
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
768	OEW PPCoS (CD) – 7M	OEW PPCoS (CD) – 7M	OW709
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
769	OEW PPCoS (CD) – 8M	OEW PPCoS (CD) – 8M	OW710
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
770	OEW PPCoS (CD) – 9M	OEW PPCoS (CD) – 9M	OW711
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
771	OEW PPCoS (CD) – 10M	OEW PPCoS (CD) – 10M	OW712
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
772	OEW PPCoS (CD) – 11M	OEW PPCoS (CD) – 11M	OW713
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
773	OEW PPCoS (CD) – 12M	OEW PPCoS (CD) – 12M	OW714
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
774	OEW PPCoS (CD) – 13M	OEW PPCoS (CD) – 13M	OW715
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
775	OEW PPCoS (CD) – 14M	OEW PPCoS (CD) – 14M	OW716
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
776	OEW PPCoS (CD) – 15M	OEW PPCoS (CD) – 15M	OW717
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
777	OEW PPCoS (CD) – 16M	OEW PPCoS (CD) – 16M	OW718
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
778	OEW PPCoS (CD) – 17M	OEW PPCoS (CD) – 17M	OW719
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
779	OEW PPCoS (CD) – 18M	OEW PPCoS (CD) – 18M	OW720



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
780	OEW PPCoS (CD) – 19M	OEW PPCoS (CD) – 19M	OW721
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
781	OEW PPCoS (CD) – 20M	OEW PPCoS (CD) – 20M	OW722
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
782	OEW PPCoS (CD) – 30M	OEW PPCoS (CD) – 30M	OW723
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
783	OEW PPCoS (CD) – 40M	OEW PPCoS (CD) – 40M	OW724
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
784	OEW PPCoS (CD) – 50M	OEW PPCoS (CD) – 50M	OW725
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
785	OEW PPCoS (CD) – 60M	OEW PPCoS (CD) – 60M	OW726
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
786	OEW PPCoS (CD) – 70M	OEW PPCoS (CD) – 70M	OW727
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>787</b>	OEW PPCoS (CD) – 80M	OEW PPCoS (CD) – 80M	OW728
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>788</b>	OEW PPCoS (CD) – 90M	OEW PPCoS (CD) – 90M	OW729
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>789</b>	OEW PPCoS (CD) – 100M	OEW PPCoS (CD) – 100M	OW730
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>790</b>	OEW PPCoS (CD) – 150M	OEW PPCoS (CD) – 150M	OW731
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>791</b>	OEW PPCoS (CD) – 200M	OEW PPCoS (CD) – 200M	OW732
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>792</b>	OEW PPCoS (CD) – 250M	OEW PPCoS (CD) – 250M	OW733
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>793</b>	OEW PPCoS (CD) – 300M	OEW PPCoS (CD) – 300M	OW734
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>794</b>	OEW PPCoS (CD) – 350M	OEW PPCoS (CD) – 350M	OW735





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>795</b>	OEW PPCoS (CD) – 400M	OEW PPCoS (CD) – 400M	OW736
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>796</b>	OEW PPCoS (CD) – 450M	OEW PPCoS (CD) – 450M	OW737
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>797</b>	OEW PPCoS (CD) – 500M	OEW PPCoS (CD) – 500M	OW738
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>798</b>	OEW PPCoS (CD) – 550M	OEW PPCoS (CD) – 550M	OW739
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>799</b>	OEW PPCoS (CD) – 600M	OEW PPCoS (CD) – 600M	OW740
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>800</b>	OEW PPCoS (CD) – 650M	OEW PPCoS (CD) – 650M	OW741
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
<b>801</b>	OEW PPCoS (CD) – 700M	OEW PPCoS (CD) – 700M	OW742
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
802	OEW PPCoS (CD) – 750M	OEW PPCoS (CD) – 750M	OW743
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
803	OEW PPCoS (CD) – 800M	OEW PPCoS (CD) – 800M	OW744
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
804	OEW PPCoS (CD) – 850M	OEW PPCoS (CD) – 850M	OW745
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
805	OEW PPCoS (CD) – 900M	OEW PPCoS (CD) – 900M	OW746
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
806	OEW PPCoS (CD) – 950M	OEW PPCoS (CD) – 950M	OW747
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
807	OEW PPCoS (CD) – 1G	OEW PPCoS (CD) – 1G	OW748
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
808	OEW PPCoS (CD) – 1500M	OEW PPCoS (CD) – 1500M	OW749
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
809	OEW PPCoS (CD) – 2000M	OEW PPCoS (CD) – 2000M	OW750





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
810	OEW PPCoS (CD) – 2500M	OEW PPCoS (CD) – 2500M	OW751
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
811	OEW PPCoS (CD) – 3000M	OEW PPCoS (CD) – 3000M	OW752
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
812	OEW PPCoS (CD) – 3500M	OEW PPCoS (CD) – 3500M	OW753
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
813	OEW PPCoS (CD) – 4000M	OEW PPCoS (CD) – 4000M	OW754
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
814	OEW PPCoS (CD) – 4500M	OEW PPCoS (CD) – 4500M	OW755
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
815	OEW PPCoS (CD) – 5000M	OEW PPCoS (CD) – 5000M	OW756
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
816	OEW PPCoS (CD) – 5500M	OEW PPCoS (CD) – 5500M	OW757
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
817	OEW PPCoS (CD) – 6000M	OEW PPCoS (CD) – 6000M	OW758
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
818	OEW PPCoS (CD) – 6500M	OEW PPCoS (CD) – 6500M	OW759
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
819	OEW PPCoS (CD) – 7000M	OEW PPCoS (CD) – 7000M	OW760
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
820	OEW PPCoS (CD) – 7500M	OEW PPCoS (CD) – 7500M	OW761
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
821	OEW PPCoS (CD) – 8000M	OEW PPCoS (CD) – 8000M	OW762
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
822	OEW PPCoS (CD) – 8500M	OEW PPCoS (CD) – 8500M	OW763
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
823	OEW PPCoS (CD) – 9000M	OEW PPCoS (CD) – 9000M	OW764
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
824	OEW PPCoS (CD) – 9500M	OEW PPCoS (CD) – 9500M	OW765



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
825	OEW PPCoS (CD) – 10G	OEW PPCoS (CD) – 10G	OW766
	Bidder's Product Description: OEW PPCoS - Critical Data - Designed to carry critical business applications.		
	PPCoS - Business Data	PPCoS - Business Data	Multiple IDs (see below)
	Bidder's Product Description: PPCoS – Business Data - Designed to carry high priority business applications.		
826	OEW PPCoS (BD) – 0.5M	OEW PPCoS (BD) – 0.5M	OW801
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
827	OEW PPCoS (BD) – 1M	OEW PPCoS (BD) – 1M	OW802
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
828	OEW PPCoS (BD) – 1.5M	OEW PPCoS (BD) – 1.5M	OW803
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
829	OEW PPCoS (BD) – 2M	OEW PPCoS (BD) – 2M	OW804
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
830	OEW PPCoS (BD) – 3M	OEW PPCoS (BD) – 3M	OW805





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
831	OEW PPCoS (BD) – 4M	OEW PPCoS (BD) – 4M	OW806
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
832	OEW PPCoS (BD) – 5M	OEW PPCoS (BD) – 5M	OW807
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
833	OEW PPCoS (BD) – 6M	OEW PPCoS (BD) – 6M	OW808
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
834	OEW PPCoS (BD) – 7M	OEW PPCoS (BD) – 7M	OW809
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
835	OEW PPCoS (BD) – 8M	OEW PPCoS (BD) – 8M	OW810
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
836	OEW PPCoS (BD) – 9M	OEW PPCoS (BD) – 9M	OW811
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
837	OEW PPCoS (BD) – 10M	OEW PPCoS (BD) – 10M	OW812
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
838	OEW PPCoS (BD) – 11M	OEW PPCoS (BD) – 11M	OW813
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
839	OEW PPCoS (BD) – 12M	OEW PPCoS (BD) – 12M	OW814
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
840	OEW PPCoS (BD) – 13M	OEW PPCoS (BD) – 13M	OW815
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
841	OEW PPCoS (BD) – 14M	OEW PPCoS (BD) – 14M	OW816
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
842	OEW PPCoS (BD) – 15M	OEW PPCoS (BD) – 15M	OW817
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
843	OEW PPCoS (BD) – 16M	OEW PPCoS (BD) – 16M	OW818
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
844	OEW PPCoS (BD) – 17M	OEW PPCoS (BD) – 17M	OW819
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
845	OEW PPCoS (BD) – 18M	OEW PPCoS (BD) – 18M	OW820





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
846	OEW PPCoS (BD) – 19M	OEW PPCoS (BD) – 19M	OW821
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
847	OEW PPCoS (BD) – 20M	OEW PPCoS (BD) – 20M	OW822
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
848	OEW PPCoS (BD) – 30M	OEW PPCoS (BD) – 30M	OW823
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
849	OEW PPCoS (BD) – 40M	OEW PPCoS (BD) – 40M	OW824
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
850	OEW PPCoS (BD) – 50M	OEW PPCoS (BD) – 50M	OW825
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
851	OEW PPCoS (BD) – 60M	OEW PPCoS (BD) – 60M	OW826
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
852	OEW PPCoS (BD) – 70M	OEW PPCoS (BD) – 70M	OW827
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>853</b>	OEW PPCoS (BD) – 80M	OEW PPCoS (BD) – 80M	OW828
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>854</b>	OEW PPCoS (BD) – 90M	OEW PPCoS (BD) – 90M	OW829
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>855</b>	OEW PPCoS (BD) – 100M	OEW PPCoS (BD) – 100M	OW830
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>856</b>	OEW PPCoS (BD) – 150M	OEW PPCoS (BD) – 150M	OW831
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>857</b>	OEW PPCoS (BD) – 200M	OEW PPCoS (BD) – 200M	OW832
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>858</b>	OEW PPCoS (BD) – 250M	OEW PPCoS (BD) – 250M	OW833
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>859</b>	OEW PPCoS (BD) – 300M	OEW PPCoS (BD) – 300M	OW834
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>860</b>	OEW PPCoS (BD) – 350M	OEW PPCoS (BD) – 350M	OW835





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
861	OEW PPCoS (BD) – 400M	OEW PPCoS (BD) – 400M	OW836
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
862	OEW PPCoS (BD) – 450M	OEW PPCoS (BD) – 450M	OW837
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
863	OEW PPCoS (BD) – 500M	OEW PPCoS (BD) – 500M	OW838
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
864	OEW PPCoS (BD) – 550M	OEW PPCoS (BD) – 550M	OW839
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
865	OEW PPCoS (BD) – 600M	OEW PPCoS (BD) – 600M	OW840
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
866	OEW PPCoS (BD) – 650M	OEW PPCoS (BD) – 650M	OW841
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
867	OEW PPCoS (BD) – 700M	OEW PPCoS (BD) – 700M	OW842
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		





	Feature Name	Feature Description	Bidder's Product Identifier
868	OEW PPCoS (BD) – 750M	OEW PPCoS (BD) – 750M	OW843
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
869	OEW PPCoS (BD) – 800M	OEW PPCoS (BD) – 800M	OW844
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
870	OEW PPCoS (BD) – 850M	OEW PPCoS (BD) – 850M	OW845
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
871	OEW PPCoS (BD) – 900M	OEW PPCoS (BD) – 900M	OW846
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
872	OEW PPCoS (BD) – 950M	OEW PPCoS (BD) – 950M	OW847
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
873	OEW PPCoS (BD) – 1G	OEW PPCoS (BD) – 1G	OW848
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
874	OEW PPCoS (BD) – 1500M	OEW PPCoS (BD) – 1500M	OW849
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
875	OEW PPCoS (BD) – 2000M	OEW PPCoS (BD) – 2000M	OW850





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
876	OEW PPCoS (BD) – 2500M	OEW PPCoS (BD) – 2500M	OW851
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
877	OEW PPCoS (BD) – 3000M	OEW PPCoS (BD) – 3000M	OW852
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
878	OEW PPCoS (BD) – 3500M	OEW PPCoS (BD) – 3500M	OW853
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
879	OEW PPCoS (BD) – 4000M	OEW PPCoS (BD) – 4000M	OW854
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
880	OEW PPCoS (BD) – 4500M	OEW PPCoS (BD) – 4500M	OW855
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
881	OEW PPCoS (BD) – 5000M	OEW PPCoS (BD) – 5000M	OW856
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
882	OEW PPCoS (BD) – 5500M	OEW PPCoS (BD) – 5500M	OW857
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>883</b>	OEW PPCoS (BD) – 6000M	OEW PPCoS (BD) – 6000M	OW858
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>884</b>	OEW PPCoS (BD) – 6500M	OEW PPCoS (BD) – 6500M	OW859
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>885</b>	OEW PPCoS (BD) – 7000M	OEW PPCoS (BD) – 7000M	OW860
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>886</b>	OEW PPCoS (BD) – 7500M	OEW PPCoS (BD) – 7500M	OW861
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>887</b>	OEW PPCoS (BD) – 8000M	OEW PPCoS (BD) – 8000M	OW862
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>888</b>	OEW PPCoS (BD) – 8500M	OEW PPCoS (BD) – 8500M	OW863
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>889</b>	OEW PPCoS (BD) – 9000M	OEW PPCoS (BD) – 9000M	OW864
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
<b>890</b>	OEW PPCoS (BD) – 9500M	OEW PPCoS (BD) – 9500M	OW865





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
891	OEW PPCoS (BD) – 10G	OEW PPCoS (BD) – 10G	OW866
	Bidder's Product Description: OEW PPCoS - Business Data - Designed to carry high priority business applications.		
	Other Non-Recurring Charges:	Other Non-Recurring Charges:	Multiple IDs ( see below)
Bidder's Product Description: Other Non-Recurring Charges:			
892	OPT-E-WAN Bandwidth Set-Up (IntraState)	OPT-E-WAN Bandwidth Set-Up (IntraState)	80372
	Bidder's Product Description: OPTEWAN Port Bandwidth Set-UP		
893	OPT-E-WAN Bandwidth Set-Up (InterState)	OPT-E-WAN Bandwidth Set-Up (InterState)	80436
	Bidder's Product Description: OPTEWAN Port Bandwidth Set-UP		
894	OEW CoS Service Establishment (IntraState)	OEW CoS Service Establishment (IntraState)	80376
	Bidder's Product Description: Class of Service Establishment		
895	OEW CoS Service Establishment (InterState)	OEW CoS Service Establishment (InterState)	80440





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
	Bidder's Product Description: Class of Service Establishment		
<b>896</b>	OEW Additional MAC Addresses, EVCs, VLANs (IntraState)	OEW Additional MAC Addresses, EVCs, VLANs (IntraState)	80385
	Bidder's Product Description: Moves Adds and Changes for IP Addresses, Ethernet Virtual Channels and Virtual Local Area Networks		
<b>897</b>	OEW Additional MAC Addresses, EVCs, VLANs (InterState)	OEW Additional MAC Addresses, EVCs, VLANs (InterState)	80443
	Bidder's Product Description: Moves Adds and Changes for IP Addresses, Ethernet Virtual Channels and Virtual Local Area Networks		
<b>898</b>	OEW Initial Service Order Change Charge (IntraState)	OEW Initial Service Order Change Charge (IntraState)	80386
	Bidder's Product Description: Changes made to initial Service Orders		
<b>899</b>	OEW Initial Service Order Change Charge (InterState)	OEW Initial Service Order Change Charge (InterState)	80444
	Bidder's Product Description: Changes made to initial Service Orders		
<b>900</b>	OEW Service Order Cancellation (IntraState)	OEW Service Order Cancellation (IntraState)	80387
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
		Cancellation by customer of a Service Order before the ordered circuit has been installed.	
901	OEW Service Order Cancellation (InterState)	OEW Service Order Cancellation (InterState)	80445
	Bidder's Product Description: Cancellation by customer of a Service Order before the ordered circuit has been installed.		
902	OEW Miscellaneous Change Charge (IntraState)	OEW Miscellaneous Change Charge (IntraState)	80388
	Bidder's Product Description: Changes to Port or service configuration		
903	OEW Miscellaneous Change Charge (Interstate)	OEW Miscellaneous Change Charge (Interstate)	80446
	Bidder's Product Description: Changes to Port or service configuration		
904	OPT-E-WAN Site Termination Charge (IntraState)	OPT-E-WAN Site Termination Charge (IntraState)	80389
	Bidder's Product Description: OPT-E-WAN Site Termination Charge will be applied when an ordered circuit is cancelled after installation.		
905	OPT-E-WAN Site Termination Charge (InterState)	OPT-E-WAN Site Termination Charge (InterState)	80447
	Bidder's Product Description: OPT-E-WAN Site Termination Charge will be applied when an ordered circuit is cancelled after installation.		





	Feature Name	Feature Description	Bidder's Product Identifier
	OEW Other Features:	OEW Other Features:	Multiple IDs (see below)
	Bidder's Product Description: Other Features:		
906	OEW Diverse POP Service Set-Up Charge (IntraState)	OEW Diverse POP Service Set-Up Charge (IntraState)	80384
	Bidder's Product Description: Diverse Point of Presence routing		
907	OEW Diverse POP Service Set-Up Charge (InterState)	OEW Diverse POP Service Set-Up Charge (InterState)	80442
	Bidder's Product Description: Diverse Point of Presence routing		
908	OEW Diverse Line Card (IntraState)	OEW Diverse Line Card (IntraState)	93013
	Bidder's Product Description: Line Card Diversity		
909	OEW Diverse Line Card (InterState)	OEW Diverse Line Card (InterState)	93014
	Bidder's Product Description: Line Card Diversity		
910	OEW POP Diversity (IntraState)	OEW POP Diversity (IntraState)	93018
	Bidder's Product Description:		





	Feature Name	Feature Description	Bidder's Product Identifier
	Diverse Point of Presence routing MRC		
911	OEW POP Diversity (InterState)	OEW POP Diversity (InterState)	93019
	Bidder's Product Description: Diverse Point of Presence routing MRC		
	GigaMAN	GigaMAN Ethernet services	Multiple
	Bidder's Product Description: GigaMAN is a fiber based, intra-LATA, point-to-point, Ethernet services that transport data at rates of <ul style="list-style-type: none"> <li>• 1 Gigabit Per Second (Gbps).</li> <li>• GigaMAN provides the following customer interface: <ul style="list-style-type: none"> <li>○ 1 Gigabit Ethernet (1000Base-SX &amp; 1000Base-LX)</li> </ul> </li> </ul>		
912	GigaMAN Local Distribution Channel	GigaMAN Local Distribution Channel	LNVX3
	Bidder's Product Description: Local Distribution Channel (Same as Channel Termination) is the termination of GigaMAN at a customer designated premise (node), consisting of the following two elements: (a) the termination for the fiber optic facilities at each node and its serving wire center. (b) the fiber optic facility between each node and its serving wire center.		
913	GigaMAN Repeater	GigaMAN Repeater	VU4X3
	Bidder's Product Description: Repeaters (Circuit Regenerators) provide essential detection and retransmission of GigaMAN® signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designated premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices and are required for each successive transport segment of approximately 21.4 db.		
914	GigaMAN Inter-Office Mileage: Fixed	GigaMAN Inter-Office Mileage: Fixed	1L5X3





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.		
915	GigaMAN Inter-office Mileage - per mile	GigaMAN Inter-office Mileage - per mile	1L5X3
	Bidder's Product Description: Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.		
916	GigaMAN Channel Termination Diversity (Local Channel Diversity)	GigaMAN Channel Termination Diversity (Local Channel Diversity)	CPAL3
	Bidder's Product Description: Channel termination diversity (i.e., local channel diversity) provides for a transmission path between a designated customer premises and the standard serving wire center that is diverse from the standard transmission path of the GigaMAN service.		
917	GigaMAN Alternate Wire Center Diversity	GigaMAN Alternate Wire Center Diversity	CPAA3
	Bidder's Product Description: Alternate Wire Center Diversity provides for a Local Distribution Channel from the customer premises to a serving wire center that is not the customer's standard serving wire center.		
918	GigaMAN Inter-Wire Center Diversity	GigaMAN Inter-Wire Center Diversity	CPAT3
	Bidder's Product Description: Inter-Wire Center Diversity provides for a transmission path that is not the standard transmission path between the serving wire centers of a GigaMAN service.		





	Feature Name	Feature Description	Bidder's Product Identifier
919	GigaMAN Equipment Only Protection	GigaMAN Equipment Only Protection	CPAE3
	Bidder's Product Description: Equipment Only Protection offers one GigaMAN signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminates in two distinct and separate network terminating equipment devices at the customer's premises.		
920	GigaMAN Equipment plus Alternate Wire Center Path Protection	GigaMAN Equipment plus Alternate Wire Center Path Protection	CPAF3
	Bidder's Product Description: Equipment Plus Alternate Wire Center Path Protection offers one GigaMAN signal routed over one fiber pair of the protected GigaMAN service from the customer's premises to the customer's normal serving wire center, and a duplicate GigaMAN signal routed over a diversely routed fiber pair to the Alternate Wire center.		
921	GigaMAN Equipment plus Channel Termination Path Protection	GigaMAN Equipment plus Channel Termination Path Protection	CPAG3
	Bidder's Product Description: Equipment Plus Channel Termination Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths to the customer's normal serving wire center.		
922	GigaMAN Inter-Wire Center Path Protection	GigaMAN Inter-Wire Center Path Protection	CPAH3
	Bidder's Product Description: Inter-Wire Center Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths between the two serving wire centers or alternate wire centers.		
923	GigaMAN Power Protection	GigaMAN Power Protection	VBBG3





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Provides up to 8 hours of battery back-up power protection for equipment. Per end, as required.		
924	GigaMAN Administration Charge	GigaMAN Administration Charge	NRBAO
	Bidder's Product Description: Administration charge, one per order.		
	DecaMAN	DecaMAN Ethernet services	Multiple
	Bidder's Product Description: DecaMAN is a fiber based, intra-LATA, point-to-point, Ethernet services that transport data at rates of <ul style="list-style-type: none"> <li>• 10 Gigabit Per Second (Gbps).</li> </ul> DecaMAN is available with two different customer interfaces: <ul style="list-style-type: none"> <li>• 10 Gigabit Ethernet (LAN-PHY) - A version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface (10GBase-LR 1310nm single mode fiber).</li> <li>• 10 Gigabit Ethernet (WAN-PHY) - A version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface (10GBase-LW 1310nm, single mode fiber)</li> </ul>		
925	DecaMAN Local Distribution Channel LAN-PHY	DecaMAN Local Distribution Channel LAN-PHY	1RSTX
	Bidder's Product Description: Local Distribution Channel (Same as Channel Termination) is the termination of DecaMAN at a customer designated premise (node), consisting of the following two elements: (a) the termination for the fiber optic facilities at each node and its serving wire center. (b) the fiber optic facility between each node and its serving wire center.		
926	DecaMAN Local Distribution Channel WAN-PHY	DecaMAN Local Distribution Channel WAN-PHY	1RSTXW





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:            Local Distribution Channel (Same as Channel Termination) is the termination of DecaMAN at a customer designated premise (node), consisting of the following two elements:            (a) the termination for the fiber optic facilities at each node and its serving wire center.            (b) the fiber optic facility between each node and its serving wire center.</p>		
927	DecaMAN Interoffice Mileage: Fixed	DecaMAN Interoffice Mileage: Fixed	JZ68S
	<p>Bidder's Product Description:            Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.</p>		
928	DecaMAN Interoffice Mileage - per mile	DecaMAN Interoffice Mileage - per mile	JZ68S
	<p>Bidder's Product Description:            Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.</p>		
929	DecaMAN Repeater	DecaMAN Repeater	VU4
	<p>Bidder's Product Description:            Repeaters (Circuit Regenerators) provide essential detection and retransmission of DecaMAN signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designated premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices and are required for each successive transport segment of approximately 21.4 db.</p>		
930	DecaMAN Channel Termination Diversity (Local Channel Diversity)	DecaMAN Channel Termination Diversity (Local Channel Diversity)	CPALX





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Channel termination diversity (i.e., local channel diversity) provides for a transmission path between a designated customer premises and the standard serving wire center that is diverse from the standard transmission path of the DecaMAN service.		
931	DecaMAN Alternate Wire Center Diversity	DecaMAN Alternate Wire Center Diversity	CPAAX
	Bidder's Product Description: Alternate Wire Center Diversity provides for a Local Distribution Channel from the customer premises to a serving wire center that is not the customer's standard serving wire center.		
932	DecaMAN Inter-Wire Center Diversity	DecaMAN Inter-Wire Center Diversity	CPATX
	Bidder's Product Description: Inter-Wire Center Diversity provides for a transmission path that is not the standard transmission path between the serving wire centers of a DecaMAN service.		
933	DecaMAN Equipment Only Protection	DecaMAN Equipment Only Protection	CPAEX
	Bidder's Product Description: Equipment Only Protection offers one DecaMAN signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminates in two distinct and separate network terminating equipment devices at the customer's premises.		
934	DecaMAN Equipment plus Alternate Wire Center Path Protection	DecaMAN Equipment plus Alternate Wire Center Path Protection	CPAFX
	Bidder's Product Description: Equipment Plus Alternate Wire Center Path Protection offers one DecaMAN signal routed over one fiber pair of the protected DecaMAN service from the customer's premises to the customer's normal serving wire center, and a duplicate DecaMAN signal routed over a diversely routed fiber pair to the Alternate Wire center.		



	Feature Name	Feature Description	Bidder's Product Identifier
935	DecaMAN Equipment plus Channel Termination Path Protection	DecaMAN Equipment plus Channel Termination Path Protection	CPAGX
	Bidder's Product Description: Equipment Plus Channel Termination Path Protection offers a duplicate DecaMAN signal routed over two diversely routed fiber paths to the customer's normal serving wire center.		
936	DecaMAN Inter-Wire Center Path Protection	DecaMAN Inter-Wire Center Path Protection	CPAHX
	Bidder's Product Description: Inter-Wire Center Path Protection offers a duplicate DecaMAN signal routed over two diversely routed fiber paths between the two serving wire centers or alternate wire centers.		
937	DecaMAN Power Protection	DecaMAN Power Protection	VBBGX
	Bidder's Product Description: Provides up to 8 hours of battery back-up power protection for equipment. Per end, as required.		
938	DecaMAN Administration Charge	DecaMAN Administration Charge	NRBAO
	Bidder's Product Description: Administration charge, one per order.		
	EPLS WAN	Ethernet Private Line Service	Multiple
Bidder's Product Description: AT&T Private Line Service Ethernet Interoffice Channel (IOC) will provide inter-city, full-duplex, point-to-point transport of Ethernet packets over the AT&T Corp. long-haul transport infrastructure. We deploy the Ethernet IOC service using the multi-service platform (MSP), which will perform encapsulation of the customer's native Ethernet traffic into SONET frames for transport across the AT&T long-haul network. The Ethernet packet traffic is mapped to a SONET frame as payload and transported as an STS-N (N = 12c, 24c, 192c) circuit across the AT&T long-haul network; provision of SONET-layer			





	Feature Name	Feature Description	Bidder's Product Identifier
		protection is on the high-speed facilities over which the Ethernet IOC circuit is routed. 600 Mbps, 1000 Mbps and 10 Gbps Ethernet IOC circuits are mapped to STS-12c, STS-24c and STS-192c signals, respectively. EPLS-WAN requires Ethernet LD access from the customer premises to AT&T POP.	
939	EPLS-WAN 600 Mbps 1-300 miles	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 600 Mbps. 1 to 300 Miles between POPs.	EPLS01
	Bidder's Product Description: Ethernet channel at 600Mbps between equipped AT&T POPs up to 300 miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
940	EPLS-WAN 600 Mbps 301+ miles fixed	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 600 Mbps. Over 300 Miles between POPs.	EPLS02
	Bidder's Product Description: Fixed element of Ethernet channel at 600Mbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
941	EPLS-WAN 600 Mbps 301+ miles variable	Per mile element of Ethernet channel at 600Mbps between equipped AT&T POPs at 301 or more. miles	EPLS03
	Bidder's Product Description: Per mile element of Ethernet channel at 600Mbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
942	EPLS-WAN 1 Gbps 1-300 miles	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 1 Gbps. 1 to 300 Miles between POPs	EPLS04
	Bidder's Product Description: Ethernet channel at 1Gbps between equipped AT&T POPs up to 300 miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
943	EPLS-WAN 1 Gbps 301+ miles fixed	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 1 Gbps. Over 300 Miles between POPsGigabit	EPLS05
	Bidder's Product Description: Fixed element of Ethernet channel at 1Gbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP. Requires		





	Feature Name	Feature Description	Bidder's Product Identifier
	Ethernet Access to each POP.		
944	EPLS-WAN 600 Mbps 301+ miles variable	Per mile element of Ethernet channel at 1 Gbps between equipped AT&T POPs at 301 or more	EPLS06
	Bidder's Product Description: Per mile element of Ethernet channel at 10Gbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP.Requires Ethernet Access to each POP.		
945	EPLS-WAN 10 Gbps 1-300 miles	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 10 Gbps. 1 to 300 Miles between POPs	EPLS07
	Bidder's Product Description: Ethernet channel at 10Gbps between equipped AT&T POPs up to 300 miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
946	EPLS-WAN 10 Gbps 301+ miles fixed	Point-point InterLATA Ethernet channel between equipped AT&T POPs at total throughput of 10 Gbps. Over 300 Miles between POPs	EPLS08
	Bidder's Product Description: Fixed element of Ethernet channel at 10Gbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP. Requires Ethernet Access to each POP.		
947	EPLS-WAN 10 Gbps 301+ miles variable	Per mile element of Ethernet channel at 10 Gbps between equipped AT&T POPs at 301 or more	EPLS09
	Bidder's Product Description: Per mile element of Ethernet channel at 10Gbps between equipped AT&T POPs at 301 or more miles. Provides Ethernet handoff at the POP.Requires Ethernet Access to each POP.		
	Ethernet Access to Long Distance POP	Ethernet Long Distance Access Service	Multiple
Bidder's Product Description: Ethernet Long Distance Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and MIS. Speed options vary between 2Mbps to 10Gbps.			





	Feature Name	Feature Description	Bidder's Product Identifier
948	100-Base-TX 2 Mbps Ethernet	100-Base-TX 2 Mbps Ethernet	LNET2
	Bidder's Product Description: 100-Base-TX 2 Mbps Ethernet		
949	100-Base-TX 4 Mbps Ethernet	100-Base-TX 4 Mbps Ethernet	LNET4
	Bidder's Product Description: 100-Base-TX 4 Mbps Ethernet		
950	100-Base-TX 5 Mbps Ethernet	100-Base-TX 5 Mbps Ethernet	LNET5
	Bidder's Product Description: 100-Base-TX 5 Mbps Ethernet		
951	100-Base-TX 8 Mbps Ethernet	100-Base-TX 8 Mbps Ethernet	LNET8
	Bidder's Product Description: 100-Base-TX 8 Mbps Ethernet		
952	100-Base-TX 10 Mbps Ethernet	100-Base-TX 10 Mbps Ethernet	LNET10
	Bidder's Product Description: 100-Base-TX 10 Mbps Ethernet		
953	100-Base-TX 20 Mbps Ethernet	100-Base-TX 20 Mbps Ethernet	LNET20
	Bidder's Product Description: 100-Base-TX 20 Mbps Ethernet		
954	100-Base-TX 50 Mbps Ethernet	100-Base-TX 50 Mbps Ethernet	LNET50
	Bidder's Product Description: 100-Base-TX 50 Mbps Ethernet		





	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Identifier</b>
<b>955</b>	100-Base-TX 100 Mbps Ethernet	100-Base-TX 100 Mbps Ethernet	LNET100
	Bidder's Product Description: 100-Base-TX 100 Mbps Ethernet		
<b>956</b>	1000-Base- SX/LX 150 Mbps Ethernet	1000-Base-SX/LX 150 Mbps Ethernet	LNET150
	Bidder's Product Description: 1000-Base-SX/LX 150 Mbps Ethernet		
<b>957</b>	1000-Base- SX/LX 250 Mbps Ethernet	1000-Base-SX/LX 250 Mbps Ethernet	LNET250
	Bidder's Product Description: 1000-Base-SX/LX 250 Mbps Ethernet		
<b>958</b>	1000-Base- SX/LX 500 Mbps Ethernet	1000-Base-SX/LX 500 Mbps Ethernet	LNET500
	Bidder's Product Description: 1000-Base-SX/LX 500 Mbps Ethernet		
<b>959</b>	1000-Base- SX/LX 600 Mbps Ethernet	1000-Base-SX/LX 600 Mbps Ethernet	LNET600
	Bidder's Product Description: 1000-Base-SX/LX 600 Mbps Ethernet		
<b>960</b>	1000-Base- SX/LX 1000 Mbps Ethernet	1000-Base-SX/LX 1000 Mbps Ethernet	LNET1G
	Bidder's Product Description: 1000-Base-SX/LX 1000 Mbps Ethernet		





	Feature Name	Feature Description	Bidder's Product Identifier
961	10G-Base-LSR 10000 Mbps Ethernet	10G-Base-LSR 10000 Mbps Ethernet	LNET10 G
	Bidder's Product Description: 10G-Base-LSR 10000 Mbps Ethernet		
	AT&T Managed Router Solution (MRS)	AT&T Managed Router Solution (MRS)	Multiple – See Feature IDs below
	Bidder's Product Description: Under the AT&T Managed Router Solutionr, AT&T provides, configures, monitors, manages and maintains the AT&T Owned or Customer Owned Equipment located at the Customer Site. The Equipment may consist of a router and other Equipment, as applicable, e.g. an asynchronous modem used to diagnose and manage the router. The management demarcation point for AT&T VPN is the LAN interface card on the router at the Customer Site. Note: The customer must provide a non-PBX dial up line for each managed router.		
	AT&T MRS Implementation Service	AT&T MRS Implementation Service	Multiple – See Feature IDs below
	Bidder's Product Description: AT&T MRS Implementation per Site (for up to 25 Sites per week during Standard Business Hours) (Monday - Friday, 8 a.m. - 5 p.m., local time)*		
962	AT&T MRS Implementation Service 1-24 sites	AT&T MRS Implementation Service 1-24 sites	MRSIM1
	Bidder's Product Description: AT&T MRS Implementation Service 1-24 sites		
963	AT&T MRS Implementation Service 25-99 sites	AT&T MRS Implementation Service 25-99 sites	MRSIM2





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T MRS Implementation Service 25-99 sites		
964	AT&T MRS Implementation Service 100-399 sites	AT&T MRS Implementation Service 100-399 sites	MRSIM3
	Bidder's Product Description: AT&T MRS Implementation Service 100-399 sites		
965	AT&T MRS Implementation Service 400-999 sites	AT&T MRS Implementation Service 400-999 sites	MRSIM4
	Bidder's Product Description: AT&T MRS Implementation Service 400-999 sites		
966	AT&T MRS Implementation Service 1000+ sites	AT&T MRS Implementation Service 1000+ sites	MRSIM5
	Bidder's Product Description: AT&T MRS Implementation Service 1000+ sites		
	AT&T MRS Equipment Installation	AT&T MRS Equipment Installation	Multiple – See Feature IDs below
	Bidder's Product Description: AT&T MRS Equipment Installation during Standard Business Hours) (Monday - Friday, 8:00 am - 5:00 p.m., local time)*		
967	AT&T MRS Equipment Installation -Low Complexity	AT&T MRS Equipment Installation -Low Complexity	MRSISL C





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T MRS Equipment Installation -Low Complexity Cisco 19xx, 29xx series routers or equivalent Juniper series routers.		
968	AT&T MRS Equipment Installation - Medium Complexity	AT&T MRS Equipment Installation -Medium Complexity	MRSISM C
	Bidder's Product Description: AT&T MRS Equipment Installation -Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		
969	AT&T MRS Equipment Installation -High Complexity	AT&T MRS Equipment Installation -High Complexity	MRSISH C
	Bidder's Product Description: AT&T MRS Equipment Installation -High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
	AT&T MRS Complete Network Management	AT&T MRS Complete Network Management	Multiple – See Feature IDs below
	Bidder's Product Description: AT&T MRS Complete Network Management		
970	AT&T MRS Complete Network Management - Low Complexity Routers	AT&T MRS Complete Network Management - Low Complexity Routers	MRSNML C
	Bidder's Product Description: AT&T MRS Complete Network Management - Low Complexity Cisco 19xx, 29xx series routers or equivalent Juniper series routers.		
971	AT&T MRS Complete	AT&T MRS Complete Network Management - Medium Complexity Routers	MRSNM MC





	Feature Name	Feature Description	Bidder's Product Identifier
	Network Management - Medium Complexity Routers		
	Bidder's Product Description: AT&T MRS Complete Network Management - Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		
972	AT&T MRS Complete Network Management - High Complexity Routers	AT&T MRS Complete Network Management - High Complexity Routers	MRSNM HC
	Bidder's Product Description: AT&T MRS Complete Network Management - High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
	Moves, Adds, Changes and Deletes	AT&T MRS Life Cycle Management Features and Services	Multiple – See Feature IDs below
	Bidder's Product Description: Moves, Adds, Changes and Deletes consist of: Addition, Deletion or Moves of hardware at a Customer site, modifying routing tables, adding, deleting or modifying protocols or protocol prioritization schemes, Software Additions/Modifications of Serial and/or LAN connections. The AT&T Work Center will perform such work. Moves, Adds and Changes are provided on a per network, per transaction and/or per event basis as set forth in the Pricing Schedule, in the table entitled "Life Cycle Management Features." Any movement that is not an Inside Move is billed as a Site de-install and new order.		
973	Move Router Site (Inside move same floor) – Low Complexity	Move Router Site (Inside move same floor) – Low Complexity	13092L
	Bidder's Product Description: Cisco 19xx, 29xx series routers or equivalent Juniper series routers		
974	Move Router Site (Inside move	Move Router Site (Inside move different floor) – Low Complexity	13093L





	Feature Name	Feature Description	Bidder's Product Identifier
	different floor) – Low Complexity		
	Bidder's Product Description: Cisco 19xx, 29xx series routers or equivalent Juniper series routers		
975	Move Router Site (Inside move same floor) – Medium Complexity	Move Router Site (Inside move same floor) – Medium Complexity	13092M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers		
976	Move Router Site (Inside move different floor) – Medium Complexity	Move Router Site (Inside move different floor) – Medium Complexity	13093M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers		
977	Move Router Site (Inside move same floor) – High Complexity	Move Router Site (Inside move same floor) – High Complexity	13092H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers		
978	Move Router Site (Inside move different floor) – High Complexity	Move Router Site (Inside move different floor) – High Complexity	13093H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers		
979	Router Site Add – Low Complexity	Router Site Add - Low Complexity	13118L



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Cisco19xx, 29xx series routers or equivalent Juniper series routers.		
980	Router Site Add - Medium Complexity	Router Site Add - Medium Complexity	13118M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers.		
981	Router Site Add - High Complexity	Router Site Add - High Complexity	13118H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
982	Add/Delete Router Boards – Low Complexity	Add/Delete Router Boards – Low Complexity	13127L
	Bidder's Product Description: Cisco19xx, 29xx series routers or equivalent Juniper series routers		
983	Add/Delete Router Boards – Medium Complexity	Add/Delete Router Boards – Medium Complexity	13127M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers.		
984	Add/Delete Router Boards – High Complexity	Add/Delete Router Boards – High Complexity	13127H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
985	AT&T Managed	AT&T Managed Router Solution Router Configuration	14158S





	Feature Name	Feature Description	Bidder's Product Identifier
	Router Solution Router Configuration Changes - Simple	Changes- Simple	
	Bidder's Product Description: Simple Configuration changes will be performed as requested by Customer.		
986	AT&T Managed Router Solution Router Configuration Changes - Complex	AT&T Managed Router Solution Router Configuration Changes - Complex	14158C
	Bidder's Product Description: Complex Configuration changes will be performed as requested by Customer.		
987	Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away	Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away	14570
	Bidder's Product Description: Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away		
988	Cancellation to Receive On-Site Services with Less than Five Business Days notice to AT&T	Cancellation to Receive On-Site Services with Less than Five Business Days notice to AT&T	13109A
	Bidder's Product Description: Cancellation to Receive On-Site Services with Less than Five Business Days notice to AT&T		
	MRS Supplementary Professional, Engineering and Technical	MRS Supplementary Professional, Engineering and Technical Services	Multiple – See feature IDs below





	Feature Name	Feature Description	Bidder's Product Identifier
	Services		
	<p><i>Bidder's Product Description</i> AT&amp;T will provide supplementary engineering and technical activities, including but not limited to network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) and will be priced according to the Professional services rates and charges as defined in the Pricing Schedule, in the section entitled "Supplementary Professional, Engineering and Technical Services."</p> <p>AT&amp;T will perform Professional Services as requested by Customer and agreed to by AT&amp;T. If AT&amp;T is required to perform Services outside of Standard Business Hours, then the Non-Standard Hours rates will apply in addition to the appropriate charge for the Service being performed.</p>		
989	MRS Supplementary Professional, Engineering and Technical Services Standard Hours (8am – 5pm local time)	MRS Supplementary Professional, Engineering and Technical Services Standard Hours (8am – 5pm local time)	13109B
	<p><i>Bidder's Product Description:</i></p> <p>AT&amp;T will provide supplementary engineering and technical activities, including but not limited to network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) and will be priced according to the Professional services rates and charges as defined in the Pricing Schedule, in the section entitled "Supplementary Professional, Engineering and Technical Services."</p>		
990	MRS Supplementary Professional, Engineering and Technical Services Non-Standard Hours	MRS Supplementary Professional, Engineering and Technical Services Non-Standard Hours	13109D
	<p><i>Bidder's Product Description:</i></p> <p>AT&amp;T will provide supplementary engineering and technical activities, including but not limited to network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) and will be priced according to the Professional services rates and charges as defined in the Pricing</p>		





	Feature Name	Feature Description	Bidder's Product Identifier
	Schedule, in the section entitled "Supplementary Professional, Engineering and Technical Services."		
	AT&T Managed Router Solution Analog (POTS) Dial Backup Management	AT&T Managed Router Solution Analog (POTS) Dial Backup Management	13060A
<b>991</b>	<p>Bidder's Product Description:</p> <p>The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial back up features require Customer to obtain ISDN line (BRI or PRI) or Analog Dial line.</p> <p>Analog dial backup provides for individual telephone lines at remote sites to access a dial line at speeds up to 56k in case of primary transport failure. HUB sites may be configured with multiple, bonded analog lines to backup the primary transport in increments of 56k.</p>		
	AT&T Managed Router Solution ISDN Basic Rate Interface (BRI) Dial Backup Management	AT&T Managed Router Solution ISDN Basic Rate Interface (BRI) Dial Backup Management	13060B
<b>992</b>	<p>Bidder's Product Description:</p> <p>The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial back up features require Customer to obtain ISDN line (BRI or PRI) or Analog Dial line.</p> <p>BRI ports for ISDN may be added to a site router. Up to 4 BRI ports per site router are allowed, subject to capability constraints of the site router.</p>		
	AT&T Managed Router Solution ISDN Primary Rate Interface (PRI) Dial Backup Management	AT&T Managed Router Solution ISDN Primary Rate Interface (PRI) Dial Backup Management	13060C
<b>993</b>			





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:</p> <p>The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial back up features require Customer to obtain ISDN line (BRI or PRI) or Analog Dial line.</p> <p>PRI port for ISDN may be added to a site router, subject to capability constraints of the site router.</p>		
994	AT&T Managed Router Solution TACACS Read Only Access – Router Enablement (Device Set UP)	AT&T Managed Router Solution TACACS Read Only Access – Router Enablement (Initial Device Set UP)	TACACS E
	<p>Bidder's Product Description:</p> <p>TACACS (Terminal Access Controller Access Control System) Read Only Access</p> <p>Provides secure remote access to AT&amp;T Managed router using an authentication protocol that allows a remote (customer) access server to forward a customer user's logon password to an AT&amp;T server to determine whether access can be allowed to a router.</p>		
995	AT&T Managed Router Solution TACACS Read Only Access – Monthly Support	AT&T Managed Router Solution TACACS Read Only Access – Monthly Support	TACACS S
	<p>Bidder's Product Description:</p> <p>TACACS (Terminal Access Controller Access Control System) Read Only Access</p> <p>Provides secure remote access to AT&amp;T Managed router using an authentication protocol that allows a remote (customer) access server to forward a customer user's logon password to an AT&amp;T server to determine whether access can be allowed to a router.</p>		
996	AT&T Managed Router Solution TACACS Read Only Access – Enablement 1 to 6 Enabled Employees	AT&T Managed Router Solution TACACS Read Only Access – Enablement 1 to 6 Enabled Employees (Initial Employee Set Up)	TACACS 1





	Feature Name	Feature Description	Bidder's Product Identifier
	<p>Bidder's Product Description:</p> <p>A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information.</p> <p>*TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.</p>		
997	AT&T Managed Router Solution TACACS Read Only Access – Enablement 7 to 12 Enabled Employees (Initial Employee Set Up)	AT&T Managed Router Solution TACACS Read Only Access – Enablement 7 to 12 Enabled Employees (Initial Employee Set Up)	TACACS 2
	<p>Bidder's Product Description:</p> <p>A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information.</p> <p>*TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.</p>		
998	AT&T Managed Router Solution TACACS Read Only Access – Enablement 13 to 25 Enabled Employees (Initial Employee Set Up)	AT&T Managed Router Solution TACACS Read Only Access – Enablement 13 to 25 Enabled Employees (Initial Employee Set Up)	TACACS 3
	<p>Bidder's Product Description:</p> <p>A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information.</p> <p>*TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.</p>		
	Ethernet Managed	Ethernet Managed Service Bundles Optional Uplift Features and Services	Multiple IDs (see





	Feature Name	Feature Description	Bidder's Product Identifier
	Service Bundles Optional Up lift Features and Services		below)
	Bidder's Product Description: Router Protocol, Memory and Misc Managed Router Feature Upgrades for managed routers bundles offered in 3.2.1.6. These features and Services apply to AT&T owned and managed equipment and ownership and responsibility for upgraded software or hardware is maintained by AT&T.		
<b>999</b>	Data IOS for Cisco 19XX Series managed router feature upgrade	Data IOS for Cisco 19XX Series managed router feature upgrade	MRU01
	Bidder's Product Description: Data IOS for Cisco 19XX Series managed router feature upgrade		
<b>1000</b>	Security IOS for Cisco 19XX Series managed router feature upgrade	Security IOS for Cisco 19XX Series managed router feature upgrade	MRU02
	Bidder's Product Description: Security IOS for Cisco 19XX Series managed router feature upgrade		
<b>1001</b>	Data IOS for Cisco 29XX Series managed router feature upgrade	Data IOS for Cisco 29XX Series managed router feature upgrade	MRU03
	Bidder's Product Description: Data IOS for Cisco 29XX Series managed router feature upgrade		
<b>1002</b>	Security IOS for Cisco 29XX Series managed router feature upgrade	Security IOS for Cisco 29XX Series managed router feature upgrade	MRU04





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Security IOS for Cisco 29XX Series managed router feature upgrade		
1003	Data IOS for Cisco 39XX Series managed router feature upgrade	Data IOS for Cisco 39XX Series managed router feature upgrade	MRU05
	Bidder's Product Description: Data IOS for Cisco 39XX Series managed router feature upgrade		
1004	Security IOS for Cisco 39XX Series managed router feature upgrade	Security IOS for Cisco 39XX Series managed router feature upgrade	MRU06
	Bidder's Product Description: Security IOS for Cisco 39XX Series managed router feature upgrade		
1005	Adv Ent IOS for DLSw and IPSEC Cisco ASR 1000 Series RP1 managed router feature upgrade	Adv Ent IOS for DLSw and IPSEC Cisco ASR 1000 Series RP1 managed router feature upgrade	MRU07
	Bidder's Product Description: Adv Ent IOS for DLSw and IPSEC Cisco ASR 1000 Series RP1 managed router feature upgrade		
1006	Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter for ASR1000 series managed router feature upgrade	Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter for ASR1000 series managed router feature upgrade	MRU10
	Bidder's Product Description: Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter for ASR1000 series managed router feature upgrade		



	Feature Name	Feature Description	Bidder's Product Identifier
<b>1007</b>	2 port 100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter for ASR1000 series managed router feature upgrade	2 port 100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter for ASR1000 series managed router feature upgrade	MRU11
	Bidder's Product Description: 2 port 100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter for ASR1000 series managed router feature upgrade		
<b>1008</b>	GE SFP, LC connector LX/LH transceiver managed router feature upgrade	GE SFP, LC connector LX/LH transceiver managed router feature upgrade	MRU12
	Bidder's Product Description: GE SFP, LC connector LX/LH transceiver managed router feature upgrade		
<b>1009</b>	GE SFP, LC connector SX transceiver managed router feature upgrade	GE SFP, LC connector SX transceiver managed router feature upgrade	MRU13
	Bidder's Product Description: GE SFP, LC connector SX transceiver managed router feature upgrade		
<b>1010</b>	1000BASE-T SFP managed router feature upgrade	1000BASE-T SFP managed router feature upgrade	MRU14
	Bidder's Product Description: 1000BASE-T SFP managed router feature upgrade		
<b>1011</b>	1-port 10/100 Routed Port HWIC managed router feature upgrade	1-port 10/100 Routed Port HWIC managed router feature upgrade	MRU15



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 1-port 10/100 Routed Port HWIC managed router feature upgrade		
1012	GigE high speed WIC managed router feature upgrade	GigE high speed WIC managed router feature upgrade	MRU16
	Bidder's Product Description: GigE high speed WIC managed router feature upgrade		
1013	1-Port Serial WAN Interface Card managed router feature upgrade	1-Port Serial WAN Interface Card managed router feature upgrade	MRU17
	Bidder's Product Description: 1-Port Serial WAN Interface Card managed router feature upgrade		
1014	4-Port 10/100 Ethernet switch interface card managed router feature upgrade	4-Port 10/100 Ethernet switch interface card managed router feature upgrade	MRU18
	Bidder's Product Description: 4-Port 10/100 Ethernet switch interface card managed router feature upgrade		
1015	1000BASE-SX SFP (DOM) managed router feature upgrade	1000BASE-SX SFP (DOM) managed router feature upgrade	MRU19
	Bidder's Product Description: 1000BASE-SX SFP (DOM) managed router feature upgrade		
1016	1-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade	1-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade	MRU20





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 1-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade		
1017	2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade	2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade	MRU21
	Bidder's Product Description: 2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1 managed router feature upgrade		
1018	COS device 4 port COS switch managed router feature upgrade	COS device 4 port COS switch managed router feature upgrade	MRU22
	Bidder's Product Description: COS device 4 port COS switch managed router feature upgrade		
1019	Cable from: OOB modem to: COS/4 managed router feature upgrade	Cable from: OOB modem to: COS/4 managed router feature upgrade	MRU24
	Bidder's Product Description: Cable from: OOB modem to: COS/4 managed router feature upgrade		
1020	Cable from: CO to: Router's Console Port (DB25M-RJ45, 10ft.) managed router feature upgrade	Cable from: CO to: Router's Console Port (DB25M-RJ45, 10ft.) managed router feature upgrade	MRU25
	Bidder's Product Description: Cable from: CO to: Router's Console Port (DB25M-RJ45, 10ft.) managed router feature upgrade		
1021	SC type to SC	SC type to SC type MMF 62.5 micron 15' for WS-G5484	MRU26





	Feature Name	Feature Description	Bidder's Product Identifier
	type MMF 62.5 micron 15' for WS-G5484 modules managed router feature upgrade	modules managed router feature upgrade	
	Bidder's Product Description: SC type to SC type MMF 62.5 micron 15' for WS-G5484 modules managed router feature upgrade		
	AT&T Managed Router Solution (MRS) – AT&T Owned and Managed Routers for MAE unsolicited services	AT&T Managed Router Solution (MRS) – AT&T Owned and Managed Routers for MAE unsolicited services	Multiple – See Feature IDs below
	Bidder's Product Description: In support of other unsolicited MAE services AT&T offers a portfolio of AT&T owned and managed router as well as other equipment, as e.g. asynchronous modem used to diagnose and manage the router. That includes configuration, monitoring and maintenance.		
	MRS Router – Cisco 2911 - Ethernet or successor model	MRS Router – Cisco 2911 - Ethernet or successor model	CIS2911
<b>1022</b>	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2911 with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default, 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 10 Mbps throughput.		
	MRS Router – Cisco 2921- Ethernet or successor model	MRS Router – Cisco 2921- Ethernet or successor model	CIS2921
<b>1023</b>	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2921		





	Feature Name	Feature Description	Bidder's Product Identifier
		with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 or successor model. Supports up to 20 Mbps throughput.	
1024	MRS Router – Cisco 3925- Ethernet or successor model	MRS Router – Cisco 3925- Ethernet or successor model	CIS3925
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 3925 with 3 onboard GE, C3900-SPE100/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 2 SM slots, 256MB CF default, 1 GB DRAM default, IP Base Cisco 3925 or successor model. Supports up to 50 Mbps throughput.		
1025	MRS Router – Cisco 3945- Ethernet or successor model	MRS Router – Cisco 3945- Ethernet or successor model	CIS3945
	Bidder's Product Description: AT&T owned and managed Router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Gigabit Ethernet Configuration: Cisco 3945 with 3 onboard GE, C3900-SPE150/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 4 SM slots, 256MB CF default, 1 GB DRAM default, IP Base. Cisco 3945 or successor model. Supports up to 100 Mbps throughput.		
1026	MRS Router – Cisco ASR1002- Ethernet or successor model	MRS Router – Cisco ASR1002- Ethernet or successor model	ASR1002
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco ASR1002 Chassis, 4 built-in GE, Dual P/S, 4GB DRAM, Cisco ASR1002 or successor model. Supports up to 1 Gbps throughput.		
1027	MRS Router – Cisco 7604- Ethernet or successor model	MRS Router – Cisco 7604- Ethernet or successor model	7604RSP



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 7604 Chassis, 4 slot -10GE, RSP720-3C,PS C7600 RSP720 Compact Flash Mem Dual PS, IP Base Cisco 7604 or successor model. Supports up to 10 Gbps throughput.		

### 3.2.1.7 MAE Service Geographic Requirements

Bidders shall identify the locations where their Ethernet Services are available in Table 3.2.1.7.a. By indicating "X" in the table below, Contractor commits to provide the services in the cities identified below. Commitment is subject to facility availability either through Contractor owned facilities or third-party agreements. Contractor's rates for the MAE services shall be the same for all geographic locations. Bidders may reference Table 3.2.1.7.a or Table 3.2.1.7.b in their Catalog A, Geographic Availability response. Bidders Catalog A language shall not conflict with the requirements described herein.

Table 3.2.1.7.a – Bidder's EVL and EVPL Services Available Areas

	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
1	Adelanto				
2	Agoura Hills				
3	Alameda	X	X	X	X
4	Albany	X	X	X	X
5	Alhambra	X	X	X	X
6	Aliso Viejo	X	X	X	X
7	Alturas				
8	Amador				
9	American Canyon	X	X	X	X
10	Anaheim	X	X	X	X





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
11	Anderson	X	X	X	X
12	Angels Camp				
13	Antioch	X	X	X	X
14	Apple Valley				
15	Arcadia	X	X	X	X
16	Arcata	X	X	X	X
17	Arroyo Grande	X	X	X	X
18	Artesia				
19	Arvin	X	X	X	X
20	Atascadero	X	X	X	X
21	Atherton				
22	Atwater	X	X	X	X
23	Auburn	X	X	X	X
24	Avalon	X	X	X	X
25	Avenal	X	X	X	X
26	Azusa				
27	Bakersfield	X	X	X	X
28	Baldwin Park	X	X	X	X
29	Banning				
30	Barstow				
31	Beaumont				
32	Bell	X	X	X	X
33	Bell Gardens	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
34	Bellflower	X	X	X	X
35	Belmont	X	X	X	X
36	Belvedere	X	X	X	X
37	Benicia	X	X	X	X
38	Berkeley	X	X	X	X
39	Beverly Hills	X	X	X	X
40	Big Bear Lake				
41	Biggs	X	X	X	X
42	Bishop				
43	Blue Lake	X	X	X	X
44	Blythe				
45	Bradbury				
46	Brawley	X	X	X	X
47	Brea	X	X	X	X
48	Brentwood	X	X	X	X
49	Brisbane	X	X	X	X
50	Buellton				
51	Buena Park	X	X	X	X
52	Burbank	X	X	X	X
53	Burlingame	X	X	X	X
54	Calabasas	X	X	X	X
55	Calexico	X	X	X	X
56	California City				





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
57	Calimesa				
58	Calipatria	X	X	X	X
59	Calistoga	X	X	X	X
60	Camarillo	X	X	X	X
61	Campbell	X	X	X	X
62	Canyon Lake				
63	Capitola	X	X	X	X
64	Carlsbad	X	X	X	X
65	Carmel-By-The-Sea	X	X	X	X
66	Carpinteria				
67	Carson	X	X	X	X
68	Cathedral City				
69	Ceres	X	X	X	X
70	Cerritos				
71	Chico	X	X	X	X
72	Chino	X	X	X	X
73	Chino Hills				
74	Chowchilla	X	X	X	X
75	Chula Vista	X	X	X	X
76	Citrus Heights	X	X	X	X
77	Claremont	X	X	X	X
78	Clayton	X	X	X	X
79	Clearlake	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
80	Cloverdale	X	X	X	X
81	Coachella				
82	Coalinga	X	X	X	X
83	Colfax				
84	Colma	X	X	X	X
85	Colton	X	X	X	X
86	Colusa				
87	Commerce	X	X	X	X
88	Compton	X	X	X	X
89	Concord	X	X	X	X
90	Corcoran				
91	Corning	X	X	X	X
92	Corona	X	X	X	X
93	Coronado	X	X	X	X
94	Corte Madera	X	X	X	X
95	Costa Mesa	X	X	X	X
96	Cotati	X	X	X	X
97	Covina				
98	Crescent City				
99	Cudahy	X	X	X	X
100	Culver City	X	X	X	X
101	Cupertino	X	X	X	X
102	Cypress	X	X	X	X





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
103	Daly City	X	X	X	X
104	Dana Point	X	X	X	X
105	Danville	X	X	X	X
106	Davis	X	X	X	X
107	Del Mar	X	X	X	X
108	Del Rey Oaks	X	X	X	X
109	Delano	X	X	X	X
110	Desert Hot Springs				
111	Diamond Bar	X	X	X	X
112	Dinuba	X	X	X	X
113	Dixon	X	X	X	X
114	Dorris				
115	Dos Palos				
116	Downey	X	X	X	X
117	Duarte				
118	Dublin	X	X	X	X
119	Dunsmuir	X	X	X	X
120	East Palo Alto	X	X	X	X
121	El Cajon	X	X	X	X
122	El Centro	X	X	X	X
123	El Cerrito	X	X	X	X
124	El Monte	X	X	X	X
125	El Paso De Robles	X	X	X	X





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
126	El Segundo	X	X	X	X
127	Elk Grove	X	X	X	X
128	Emeryville	X	X	X	X
129	Encinitas	X	X	X	X
130	Escalon	X	X	X	X
131	Escondido	X	X	X	X
132	Etna				
133	Eureka	X	X	X	X
134	Exeter				
135	Fairfax	X	X	X	X
136	Fairfield	X	X	X	X
137	Farmersville	X	X	X	X
138	Ferndale				
139	Fillmore	X	X	X	X
140	Firebaugh	X	X	X	X
141	Folsom	X	X	X	X
142	Fontana	X	X	X	X
143	Fort Bragg	X	X	X	X
144	Fort Jones				
145	Fortuna	X	X	X	X
146	Foster City	X	X	X	X
147	Fountain Valley	X	X	X	X
148	Fowler				





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
149	Fremont	X	X	X	X
150	Fresno	X	X	X	X
151	Fullerton	X	X	X	X
152	Galt	X	X	X	X
153	Garden Grove	X	X	X	X
154	Gardena	X	X	X	X
155	Gilroy	X	X	X	X
156	Glendale	X	X	X	X
157	Glendora	X	X	X	X
158	Goleta				
159	Gonzales	X	X	X	X
160	Grand Terrace	X	X	X	X
161	Grass Valley	X	X	X	X
162	Greenfield	X	X	X	X
163	Gridley	X	X	X	X
164	Grover Beach	X	X	X	X
165	Guadalupe				
166	Gustine	X	X	X	X
167	Half Moon Bay	X	X	X	X
168	Hanford	X	X	X	X
169	Hawaiian Gardens				
170	Hawthorne	X	X	X	X
171	Hayward	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
172	Healdsburg	X	X	X	X
173	Hemet				
174	Hercules	X	X	X	X
175	Hermosa Beach	X	X	X	X
176	Hesperia				
177	Hidden Hills	X	X	X	X
178	Highland	X	X	X	X
179	Hillsborough	X	X	X	X
180	Hollister	X	X	X	X
181	Holtville	X	X	X	X
182	Hughson	X	X	X	X
183	Humboldt				
184	Huntington Beach	X	X	X	X
185	Huntington Park	X	X	X	X
186	Huron	X	X	X	X
187	Imperial	X	X	X	X
188	Imperial Beach	X	X	X	X
189	Indian Wells				
190	Indio				
191	Industry				
192	Inglewood	X	X	X	X
193	Inyo				
194	lone	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
195	Irvine	X	X	X	X
196	Irwindale				
197	Isleton				
198	Jackson	X	X	X	X
199	Kerman				
200	Kern				
201	King City	X	X	X	X
202	Kings				
203	Kingsburg	X	X	X	X
204	La Canada Flintridge	X	X	X	X
205	La Habra	X	X	X	X
206	La Habra Heights				
207	La Mesa	X	X	X	X
208	La Mirada	X	X	X	X
209	La Palma				
210	La Puente	X	X	X	X
211	La Quinta				
212	La Verne				
213	Lafayette	X	X	X	X
214	Laguna Beach	X	X	X	X
215	Laguna Hills	X	X	X	X
216	Laguna Niguel	X	X	X	X
217	Laguna Woods	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
218	Lake				
219	Lake Elsinore	X	X	X	X
220	Lake Forest	X	X	X	X
221	Lakeport	X	X	X	X
222	Lakewood	X	X	X	X
223	Lancaster	X	X	X	X
224	Larkspur	X	X	X	X
225	Lassen				
226	Lathrop				
227	Lawndale				
228	Lemon Grove	X	X	X	X
229	Lemoore	X	X	X	X
230	Lincoln	X	X	X	X
231	Lindsay				
232	Live Oak	X	X	X	X
233	Livermore	X	X	X	X
234	Livingston	X	X	X	X
235	Lodi	X	X	X	X
236	Loma Linda				
237	Lomita	X	X	X	X
238	Lompoc				
239	Long Beach	X	X	X	X
240	Loomis	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
241	Los Alamitos	X	X	X	X
242	Los Altos	X	X	X	X
243	Los Altos Hills	X	X	X	X
244	Los Angeles	X	X	X	X
245	Los Banos	X	X	X	X
246	Los Gatos	X	X	X	X
247	Loyalton	X	X	X	X
248	Lynwood	X	X	X	X
249	Madera	X	X	X	X
250	Malibu				
251	Mammoth Lakes				
252	Manhattan Beach	X	X	X	X
253	Manteca				
254	Maricopa				
255	Marina	X	X	X	X
256	Martinez	X	X	X	X
257	Marysville	X	X	X	X
258	Maywood	X	X	X	X
259	Mcfarland				
260	Mendota	X	X	X	X
261	Menlo Park	X	X	X	X
262	Merced	X	X	X	X
263	Mill Valley	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
264	Millbrae	X	X	X	X
265	Milpitas	X	X	X	X
266	Mission Viejo	X	X	X	X
267	Modesto	X	X	X	X
268	Monrovia	X	X	X	X
269	Montague	X	X	X	X
270	Montclair	X	X	X	X
271	Monte Sereno				
272	Montebello	X	X	X	X
273	Monterey	X	X	X	X
274	Monterey Park				
275	Moorpark	X	X	X	X
276	Moraga	X	X	X	X
277	Moreno Valley				
278	Morgan Hill	X	X	X	X
279	Morro Bay	X	X	X	X
280	Mount Shasta	X	X	X	X
281	Mountain View	X	X	X	X
282	Murrieta				
283	Napa	X	X	X	X
284	National City	X	X	X	X
285	Needles				
286	Nevada City	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
287	Newark	X	X	X	X
288	Newman	X	X	X	X
289	Newport Beach	X	X	X	X
290	Norco	X	X	X	X
291	Norwalk	X	X	X	X
292	Novato	X	X	X	X
293	Oakdale	X	X	X	X
294	Oakland	X	X	X	X
295	Oakley	X	X	X	X
296	Oceanside	X	X	X	X
297	Ojai	X	X	X	X
298	Ontario	X	X	X	X
299	Orange	X	X	X	X
300	Orange Cove	X	X	X	X
301	Orinda	X	X	X	X
302	Orland	X	X	X	X
303	Oroville	X	X	X	X
304	Oxnard	X	X	X	X
305	Pacific Grove	X	X	X	X
306	Pacifica	X	X	X	X
307	Palm Desert				
308	Palm Springs				
309	Palmdale	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
310	Palo Alto	X	X	X	X
311	Palos Verdes Estates				
312	Paradise	X	X	X	X
313	Paramount	X	X	X	X
314	Parlier	X	X	X	X
315	Pasadena	X	X	X	X
316	Patterson				
317	Perris				
318	Petaluma	X	X	X	X
319	Pico Rivera	X	X	X	X
320	Piedmont	X	X	X	X
321	Pinole	X	X	X	X
322	Pismo Beach	X	X	X	X
323	Pittsburg	X	X	X	X
324	Placentia	X	X	X	X
325	Placerville	X	X	X	X
326	Pleasant Hill	X	X	X	X
327	Pleasanton	X	X	X	X
328	Plymouth	X	X	X	X
329	Point Arena	X	X	X	X
330	Pomona	X	X	X	X
331	Port Hueneme	X	X	X	X
332	Porterville	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
333	Portola	X	X	X	X
334	Portola Valley	X	X	X	X
335	Poway	X	X	X	X
336	Rancho Cordova	X	X	X	X
337	Rancho Cucamonga	X	X	X	X
338	Rancho Mirage				
339	Rancho Palos Verdes				
340	Rancho Santa Margarita	X	X	X	X
341	Red Bluff	X	X	X	X
342	Redding	X	X	X	X
343	Redlands				
344	Redondo Beach	X	X	X	X
345	Redwood City	X	X	X	X
346	Reedley				
347	Rialto	X	X	X	X
348	Richmond	X	X	X	X
349	Ridgecrest				
350	Rio Dell	X	X	X	X
351	Rio Vista				
352	Ripon	X	X	X	X
353	Riverbank	X	X	X	X
354	Riverside	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
355	Rocklin	X	X	X	X
356	Rohnert Park	X	X	X	X
357	Rolling Hills	X	X	X	X
358	Rolling Hills Estates				
359	Rosemead	X	X	X	X
360	Roseville	X	X	X	X
361	Ross	X	X	X	X
362	Sacramento	X	X	X	X
363	Salinas	X	X	X	X
364	San Anselmo	X	X	X	X
365	San Bernardino	X	X	X	X
366	San Bruno	X	X	X	X
367	San Buenaventura	X	X	X	X
368	San Carlos	X	X	X	X
369	San Clemente	X	X	X	X
370	San Diego	X	X	X	X
371	San Dimas				
372	San Fernando	X	X	X	X
373	San Francisco	X	X	X	X
374	San Gabriel	X	X	X	X
375	San Jacinto				
376	San Joaquin				
377	San Jose	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
378	San Juan Bautista	X	X	X	X
379	San Juan Capistrano	X	X	X	X
380	San Leandro	X	X	X	X
381	San Luis Obispo	X	X	X	X
382	San Marcos	X	X	X	X
383	San Marino	X	X	X	X
384	San Mateo	X	X	X	X
385	San Pablo	X	X	X	X
386	San Rafael	X	X	X	X
387	San Ramon	X	X	X	X
388	Sand City	X	X	X	X
389	Sanger				
390	Santa Ana	X	X	X	X
391	Santa Barbara				
392	Santa Clara	X	X	X	X
393	Santa Clarita	X	X	X	X
394	Santa Cruz	X	X	X	X
395	Santa Fe Springs	X	X	X	X
396	Santa Maria	X	X	X	X
397	Santa Monica	X	X	X	X
398	Santa Paula				
399	Santa Rosa	X	X	X	X
400	Santee	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
401	Saratoga	X	X	X	X
402	Sausalito	X	X	X	X
403	Scotts Valley	X	X	X	X
404	Seal Beach				
405	Seaside	X	X	X	X
406	Sebastopol	X	X	X	X
407	Selma	X	X	X	X
408	Shafter	X	X	X	X
409	Shasta Lake	X	X	X	X
410	Sierra Madre				
411	Signal Hill				
412	Simi Valley	X	X	X	X
413	Solana Beach	X	X	X	X
414	Soledad	X	X	X	X
415	Solvang				
416	Sonoma	X	X	X	X
417	Sonora	X	X	X	X
418	South El Monte	X	X	X	X
419	South Gate	X	X	X	X
420	South Lake Tahoe	X	X	X	X
421	South Pasadena	X	X	X	X
422	South San Francisco	X	X	X	X
423	St Helena	X	X	X	X





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	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
424	Stanton	X	X	X	X
425	Stockton	X	X	X	X
426	Suisun City	X	X	X	X
427	Sunnyvale	X	X	X	X
428	Susanville				
429	Sutter Creek	X	X	X	X
430	Taft				
431	Tehachapi	X	X	X	X
432	Tehama	X	X	X	X
433	Temecula				
434	Temple City	X	X	X	X
435	Thousand Oaks	X	X	X	X
436	Tiburon	X	X	X	X
437	Torrance	X	X	X	X
438	Tracy	X	X	X	X
439	Trinidad	X	X	X	X
440	Truckee	X	X	X	X
441	Tulare	X	X	X	X
442	Tulelake				
443	Turlock	X	X	X	X
444	Tustin	X	X	X	X
445	Twentynine Palms				
446	Ukiah	X	X	X	X





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		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
447	Union City	X	X	X	X
448	Upland	X	X	X	X
449	Vacaville	X	X	X	X
450	Vallejo	X	X	X	X
451	Vernon	X	X	X	X
452	Victorville				
453	Villa Park	X	X	X	X
454	Visalia	X	X	X	X
455	Vista	X	X	X	X
456	Walnut				
457	Walnut Creek	X	X	X	X
458	Wasco	X	X	X	X
459	Waterford	X	X	X	X
460	Watsonville	X	X	X	X
461	Weed	X	X	X	X
462	West Covina	X	X	X	X
463	West Hollywood	X	X	X	X
464	West Los Angeles	X	X	X	X
465	West Sacramento	X	X	X	X
466	Westlake Village	X	X	X	X
467	Westminster	X	X	X	X
468	Westmorland	X	X	X	X
469	Wheatland	X	X	X	X





	Service Location	EPL MAE Service Connections		EVPL MAE Service Connections	
		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
470	Whittier	X	X	X	X
471	Williams				
472	Willits	X	X	X	X
473	Willows	X	X	X	X
474	Windsor	X	X	X	X
475	Winters	X	X	X	X
476	Woodlake	X	X	X	X
477	Woodland	X	X	X	X
478	Woodside	X	X	X	X
479	Yorba Linda	X	X	X	X
480	Yountville	X	X	X	X
481	Yreka	X	X	X	X
482	Yuba City	X	X	X	X
483	Yucaipa				
484	Yucca Valley				

Bidders may identify additional unsolicited locations where their Ethernet Services are available in Table 3.2.1.7.b. By indicating "X" in the table below, Contractor commits to providing the Services identified in this section. Commitment is subject to facility availability either through Contractor owned facilities or third-party agreements. Contractor's rates for the MAE services shall be the same for all geographic locations. Additional lines may be added as necessary. Bidders may reference Table 3.2.1.7.a or Table 3.2.1.7.b in their Catalog A, Geographic Availability response. Bidder's Catalog A language shall not conflict with the requirements described herein.

Table 3.2.1.7.b – Unsolicited Bidder's EVL and EVPL Services Available Areas

	Service Location	EPL MAE Service Connections	EVPLMAE Service Connections
--	------------------	-----------------------------	-----------------------------





		10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
1	None				

### 3.3 Network Disaster/Operational Recovery

#### 3.3.1 Telecommunications Service Priority (TSP) Program

The Contractor shall comply with the Telecommunications Service Priority (TSP) Program, a Federal Communications Commission (FCC) mandate for prioritizing service requests by identifying those services critical to National Security and Emergency Preparedness (NS/EP) and be in compliance with all related CPUC and FCC requirements.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

#### 3.3.2 Data Network Disaster/Operational Recovery

Public safety agencies, major data centers, agencies with supporting roles during disaster or emergency operations, and agencies with significant roles in post-disaster recovery have mission-critical needs to maintain network availability during disasters or emergencies.

It is essential that service be restored as soon as possible, and the services most critical to State operations remain operational during efforts to achieve full service recovery.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### 3.4 Other Services

#### 3.4.1 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.





### **3.4.2 Extended Demarcation Wiring Services**

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

Extended Demarc wiring shall include all necessary hardware including wire and/or cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarc wiring shall also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation.

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; or,
4. Testing, trouble shooting, labeling and completing documentation.

The Contractor shall provide installations in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs detailed in Section 3.5.8.9 (Provisioning SLAs) associated with that service.

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 in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;
2. The wire/cable pathway is in an asbestos environment 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. Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by CALNET 3 CMO.

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 (1) Demarc extension as described above. Bidder shall provide one (1) price for each media identified.

The Contractor shall install wiring according to industry standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, Uniform Building Cabling/Wiring current at the time of this IFB and as periodically updated by CALNET 3 CMO. Additionally, the Contractor shall install



and maintain all wiring in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

The Contractor shall provide extended Demarcation Services limited to one (1) occurrence or installation for the specific telecommunications service the cabling is meant to support and must be ordered in conjunction with the service being provisioned. All other cabling will be the responsibility of the Customer and will be acquired through other procurement vehicles.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*



The Contractor shall offer the wiring services for extended demarcation detailed in Table 3.4.2.a.

Table 3.4.2.a Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	Extended Demarcation – Copper four-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 as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		EDCR
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s smart jack. To provide this service, AT&T assumes customer has adequate pathways – Regular Hours.					
2	Extended Demarcation – Copper four-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 as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		EDCO
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s smart jack. To provide this service, AT&T assumes customer has adequate pathways – Overtime Hours.					
3	Extended Demarcation – Copper four-Pair – Sundays 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 as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		EDCH
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s smart jack. To provide this service, AT&T assumes customer has adequate pathways – Sunday and Holiday Hours.					





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	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
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 as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		EDC25R
Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5 25-pair CMP UTP cable with new 24-port Category 5 patch panels. Category 5e ten, three-meter jumpers, one 24-port patch panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways – Regular Hours.					
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 as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		EDC25O
Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5 25-pair CMP UTP cable with new 24-port Category 5 patch panels. Category 5e ten, three-meter jumpers, one 24-port patch panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways – Overtime Hours.					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
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 as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		EDC25H
Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5 25-pair CMP UTP cable with new 24-port Category 5 patch panels. Category 5e ten, three-meter jumpers, one 24-port patch panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways – Sunday and Holiday Hours.					
7	Extended Demarcation – Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDOR
Bidder's Product Description: The pricing of this item includes up to 1,000 feet of 62.5/125- or 50/125-micron, two-strand CMP fiber drop cable with adapters, connectors, and two SC-SC duplex patch cords for each single circuit extension. Associated troubleshooting, testing, and labeling are included. Additional charges will apply for two-strand single mode extensions in longer lengths. To provide this service, AT&T assumes customer has adequate pathways. Enclosures are not included. – Regular Hours.					





	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
8	Extended Demarcation – Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDOO
<p>Bidder's Product Description:</p> <p>The pricing of this item includes up to 1,000 feet of 62.5/125- or 50/125-micron, two-strand CMP fiber drop cable with adapters, connectors, and two SC-SC duplex patch cords for each single circuit extension. Associated troubleshooting, testing, and labeling are included. Additional charges will apply for two-strand single mode extensions in longer lengths. To provide this service, AT&amp;T assumes customer has adequate pathways. Enclosures are not included. – Overtime Hours.</p>					
9	Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDOH
<p>Bidder's Product Description:</p> <p>The pricing of this item includes up to 1,000 feet of 62.5/125- or 50/125-micron, two-strand CMP fiber drop cable with adapters, connectors, and two SC-SC duplex patch cords for each single circuit extension. Associated troubleshooting, testing, and labeling are included. Additional charges will apply for two-strand single mode extensions in longer lengths. To provide this service, AT&amp;T assumes customer has adequate pathways. Enclosures are not included. – Sunday and Holiday Hours.</p>					





The Contractor may offer additional extended demarcation wiring services in Table 3.4.2.b.

Table 3.4.2.b Unsolicited Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder's Product Identifier

### 3.4.3 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 Contractor's responsibilities. Work performed under this Section 3.4.3 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.

In Cost Worksheet 3.4.3, 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 (10) hours per dispatch/occurrence.

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*

The Contractor shall offer emergency restoration services as detailed in Table 3.4.3.

Table 3.4.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
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 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVV





	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: <b>Field Service Technician – Regular Hours</b>			
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 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y	MVV-O
	Bidder's Product Description: <b>Field Service Technician – Overtime Hours</b>			
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 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y	MVV-H
	Bidder's Product Description: <b>Field Service Technician – Sunday and Holiday Hours</b>			

## 3.5 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 3 CMO 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.

### 3.5.1 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 shall include source of data and define the points of measurement within the system, application, or network;

4. Service(s) - All applicable Categories or Subcategories will be listed in each SLA;
5. Objective(s) – Defines the SLA performance goal/parameters; and,
6. Rights and Remedies
  - a. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
  - b. 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 an invoice credit or refund when an 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 the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.2 Technical Requirements Versus SLA Objectives**

Sections 3.2 (Ethernet Services), 3.3 (Network Disaster/Operational Recovery) and 3.4 (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 the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.3 Two Methods of Outage Reporting: Customer or Contractor**

There are two (2) methods in which CALNET 3 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 (IFB STPD 12-001-B Business Requirements Section B.9.4).

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 (IFB STPD 12-001-B Business Requirements Section B.9.4) and monitor and report to Customer until service is restored.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.4 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 (1) specific objective level they are committing to for each service in space provided in the “Objective” section of each SLA description.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.5 Contractor SLA Management Plan**

Within 90 calendar days of Contract award, the Contractor shall provide CALNET 3 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 (IFB STPD 12-001-B Business Requirements Section B.9.5). The Contractor shall include a sample report in accordance with IFB STPD 12-001-B Business Requirements Section B.9.5 (SLA Reports) for the following: SLA Service Performance Report (IFB STPD 12-001-B Business Requirements Section B.9.5.1), SLA Provisioning Report (IFB STPD 12-001-B Business Requirements Section B.9.5.2), and SLA Catastrophic Outage Reports (IFB STPD 12-001-B Business Requirements Section B.9.5.3). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET 3 CMO via the Private Oversight Website (IFB STPD 12-001-B Business Requirements Section B.9.2);
4. SLA invoicing credit and refund process;
5. SLA invoicing credit and refund process;
6. Contractor SLA problem resolution process for SLA management and SLA reporting. The Contractor shall provide a separate process for Customers and CALNET 3 CMO; and,



7. 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 3 CMO.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.6 Technical SLA General Requirements**

The Contractor shall adhere to the following general requirements which apply to all CALNET 3 Technical SLAs (Section 3.5.8):

1. With the exception of the Provisioning SLA, the total SLA rights and remedies for any given month shall not exceed the sum of 100 percent 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 (1) 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 3 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;
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges;
6. The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives;
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;
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 3 CMO for possible inclusion via amendments;
9. The Contractor shall apply CALNET 3 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 3 Customer;



10. The election by CALNET 3 CMO of any SLA remedy covered by this Contract shall not exclude or limit CALNET 3 CMO's 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 (IFB STPD 12-001-B Business Requirements Section B.3.4.2) and/or the CALNET 3 CMO Escalation Process (IFB STPD 12-001-B Business Requirements Section B.3.4.1) 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 24x365 for CALNET 3 services;
15. SLAs apply 24x365 unless SLA specifies an exception;
16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with IFB STPD 12-001-B Business Requirements Section B.5.1 (Billing and Invoicing Requirements, #14);
17. The Contractor shall provide a CALNET 3 SLA Manager responsible for CALNET 3 SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET 3 CMO SLA oversight, report issues, and problem resolution concerns. The CALNET 3 SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;
18. The Contractor shall provide Customer and CALNET 3 CMO 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 3 Customer.

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*

### **3.5.7 Trouble Ticket Stop Clock Conditions**

The following conditions shall be allowed to stop the trouble ticket Outage Duration for CALNET 3 Contractor trouble tickets. The Contractor shall document the trouble ticket Outage Duration using the Stop Clock Condition (SCC) listed in Table 3.5.7 and include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (IFB STPD 12-001-B Business Requirements Section B.9.4) for each application of a SCC.

Note: The Glossary (SOW Appendix A) defines term "End-User" as the "individual within an Entity that is utilizing the feature or service provided under the Contract."



Stop Clock Conditions are limited to the conditions listed in Table 3.5.7.

Table 3.5.7 – Stop Clock Conditions (SCC)

#	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.
6	FACILITIES	Lack of building entrance Facilities or conduit structure that are the End-User's responsibility to provide.



#	Stop Clock Condition (SCC)	SCC Definition
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: <ul style="list-style-type: none"> <li>a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative;</li> <li>b. Site contact refuses access to technician who displays proper identification;</li> <li>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,</li> <li>d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.</li> </ul> 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.
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-out 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 3 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.





#	Stop Clock Condition (SCC)	SCC Definition
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.
14	FORCE MAJEURE	Force Majeure events, as defined in the PMAC General Provisions - Telecommunications, Section 28 (Force Majeure).

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_*



### 3.5.8 Technical Service Level Agreements

The Contractor shall provide and manage the following Technical SLAs.

#### 3.5.8.1 Availability (M-S)

SLA Name: Availability	
Definition: The percentage of time a CALNET 3 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 affected service (Per Circuit 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 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.	
Services:	
MAE Service	AT&T Switched Ethernet (ASE) Service
OPT-E-MAN Service	OPT-E-WAN Service
GigaMAN Service	DecaMAN Service
EPLS WAN Service	AT&T Managed Router Solution (MRS)
Ethernet Access to Long Distance POP	



Objective(s):

The objective shall be based on the UNI physical interface:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
EPL and EVPL MAE, ASE, OPT-E-MAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and OPT-E-WAN, Service 10/100 Mbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S
EPL and EVPL MAE, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN Service 1Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S
ASE, OPT-E-WAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN Service 10Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S

Rights and Remedies	Per Occurrence: N/A
	<p><b>Monthly Aggregated Measurements:</b>          First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC.          The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC.          Each additional consecutive month the service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC.</p>

Bidder understands the Requirement and shall meet or exceed it? Yes  No





**3.5.8.2 Catastrophic Outage 1 (CAT 1) (M-S)**

SLA Name: Catastrophic Outage 1 (CAT 1)				
<p><b>Definition:</b> The total loss of service at a single address based on a common cause resulting in the failure of five (5) UNIs or any cumulative UNI failure equal to, or greater than, 10 Gbps.</p>				
<p><b>Measurement Process:</b> 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) affected by a 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) is restored minus SCC. Any service reported by Customer as not having been restored shall have the outage time adjusted to the actual restoration time.</p>				
Service(s):				
MAE Service	AT&T Switched Ethernet (ASE) Service			
OPT-E-MAN Service	OPT-E-WAN Service			
GigaMAN Service	DecaMAN Service			
EPLS WAN Service	AT&T Managed Router Solution (MRS)			
Ethernet Access to Long Distance POP				
<p><b>Objective (s):</b>            The objective restoral time shall be:</p>				
	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	≤ 3 hours	≤ 2 hours	≤ 1 hour	S





Rights and Remedies	Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault
	Monthly Aggregated Measurements: N/A

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*



**3.5.8.3 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 an 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 a 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.						
Service(s):						
MAE Service			AT&T Switched Ethernet (ASE) Service			
OPT-E-MAN Service			OPT-E-WAN Service			
GigaMAN Service			DecaMAN Service			
EPLS WAN Service			AT&T Managed Router Solution (MRS)			
Ethernet Access to Long Distance POP						
Objective (s): The objective restoral time shall be:						
		Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)	
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN		≤ 1 hour	≤ 30 minutes	≤ 15 minutes	S	
Rights and Remedies		Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault				
		Monthly Aggregated Measurements: N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No





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**3.5.8.4 Catastrophic Outage 3 (CAT 3) (M-S)**

SLA Name: Catastrophic Outage 3 (CAT 3)					
Definition: The total loss of one (1) or more CALNET 3 services 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 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 a common cause. Outage Duration shall be measured on a per-End-User service (Circuit ID) basis from information recorded from the network equipment/system or 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.					
Service(s):					
MAE Service		AT&T Switched Ethernet (ASE) Service			
OPT-E-MAN Service		OPT-E-WAN Service			
GigaMAN Service		DecaMAN Service			
EPLS WAN Service		AT&T Managed Router Solution (MRS)			
Ethernet Access to Long Distance POP					
Objectives: The objective restoral time shall be:					
		Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or P)
	MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	≤ 30 minutes	N/A	≤ 15 minutes	P
Rights and Remedies	Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 3 fault.				
	Monthly Aggregated Measurements: N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No





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### 3.5.8.5 Excessive Outage (M-S)

SLA Name: Excessive Outage											
Definition: A service failure 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 unusable during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If Customer reports a service failure as unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.											
Service(s):											
MAE Service	AT&T Switched Ethernet (ASE) Service										
OPT-E-MAN Service	OPT-E-WAN Service										
GigaMAN Service	DecaMAN Service										
EPLS WAN Service	AT&T Managed Router Solution (MRS)										
Ethernet Access to Long Distance POP											
Objective (s): The Unavailable Time objective shall not exceed:											
	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:15%;">Basic (B)</th> <th style="width:15%;">Standard (S)</th> <th style="width:15%;">Premier (P)</th> <th style="width:15%;">Bidders Objective Commitment (B, S or P)</th> </tr> </thead> <tbody> <tr> <td>MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&amp;T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN</td> <td>16 hours</td> <td>12 hours</td> <td>8 hours</td> <td>S</td> </tr> </tbody> </table>		Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)	MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	16 hours	12 hours	8 hours	S
	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)							
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	16 hours	12 hours	8 hours	S							
Rights and Remedies	Per Occurrence: 100 percent of the TMRC for each service (Circuit ID) out of service for a period greater than the committed objective level. Upon request from the Customer or the CALNET 3 CMO, the Contractor shall provide a briefing on the excessive outage restoration.										
	Monthly Aggregated Measurements: N/A										

Bidder understands the Requirement and shall meet or exceed it? Yes  No





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**3.5.8.6 Notification**

SLA Name: Notification	
<p><b>Definition:</b> The Contractor notification to CALNET 3 CMO and designated stakeholders in the event of a CAT 2 or CAT 3 failure, Contractor, Subcontractor or Affiliate network event, terrorist activity, threat of natural disaster, or actual natural disaster which results in a significant loss of telecommunication services to CALNET 3 End-Users or has the potential to impact services in a general or statewide area. The State understands initial information regarding the nature of the outage may be limited.</p>	
<p><b>Measurement Process:</b> The Contractor shall adhere to the Network Outage Response requirements (IFB STPD 12-001-B Business Requirements Section B.3.3) and notify the CALNET 3 CMO 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 natural disaster, the Contractor shall notify CALNET 3 CMO and designated stakeholder when information is available.</p>	
Service(s): All Services	
<p><b>Objective (s):</b> Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify CALNET 3 CMO and designated stakeholders using a method defined in IFB STPD 12-001-B Business Requirements Section B.3.3 (Network Outage Response).</p> <p>At 60 minute intervals, updates shall be given on the above mentioned failures via the method defined in Section IFB STPD 12-001-B Business Requirements Section B.3.3 (Network Outage Response).</p> <p>This objective is the same for Basic, Standard and Premier commitments.</p>	
Rights and Remedies	Per Occurrence: Senior Management Escalation
	Monthly Aggregated Measurements: N/A

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No*





### 3.5.8.7 Latency (M-S)

SLA Name: Latency				
<p><b>Definition:</b> Latency is the amount of time necessary for a typical Ethernet frame to traverse one way from the originating UNI, across the Contractor's, Affiliate, or Subcontractor's network, to the remote UNI(s) on each EVC identified by the Customer.</p>				
<p><b>Measurement Process:</b> End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Latency exceeds the committed level. Latency shall be measured from the first bit of and Ethernet frame entering the ingress UNI to when the last bit of the same frame leaves the egress UNI. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a Latency issue shall not count in Availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.</p> <p>This measurement includes the local loop transport under the control of the Contractor and any local loops acquired from a third party by the Contractor.</p>				
<b>Service(s):</b>				
MAE Service	AT&T Switched Ethernet (ASE) Service			
OPT-E-MAN Service	OPT-E-WAN Service			
GigaMAN Service	DecaMAN Service			
EPLS WAN Service	AT&T Managed Router Solution (MRS)			
Ethernet Access to Long Distance POP				
<b>Objective (s):</b>				
The Unavailable Time objective shall not exceed:				
	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	≤ 75ms	≤ 50ms	≤ 25ms	S





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Rights and Remedies	Per Occurrence: 15 percent of the TMRC for the reported service Next consecutive month to fail to meet the committed SLA objectives shall result in a 25 percent rebate of TMRC. Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35 percent rebate of TMRC.
	Monthly Aggregated Measurements: N/A

*Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_*



### 3.5.8.8 Packet Loss (M-S)

SLA Name: Packet Loss				
<i>Definition:</i> A measurement of lost or dropped packet traveling across the Contractor's, Affiliate's or Subcontractor's network. Packet loss is the difference between the number of packets transmitted at the ingress UNI and the total number of packets received at the egress UNI.				
<p><b>Measurement Process:</b> End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the packet loss exceeds the committed level. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a packet loss issue shall not count in Availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.</p> <p>This measurement includes the local loop transport under the control of the Contractor and any local loops acquired from a third party by the Contractor.</p>				
<b>Service(s):</b>				
MAE Service	AT&T Switched Ethernet (ASE) Service			
OPT-E-MAN Service	OPT-E-WAN Service			
GigaMAN Service	DecaMAN Service			
EPLS WAN Service	AT&T Managed Router Solution (MRS)			
Ethernet Access to Long Distance POP				
<b>Objective (s):</b>				
The Packet Loss objective shall not exceed:				
	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	≤ .7% packet loss	≤ .5% packet loss	≤ .2% packet loss	S





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Rights and Remedies	Per Occurrence: 15 percent of the TMRC for the reported service Next consecutive month to fail to meet the committed SLA objectives shall result in a 25 percent rebate of TMRC. Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35 percent rebate of TMRC.
	Monthly Aggregated Measurements: N/A

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No*



### 3.5.8.9 Provisioning (M-S)

SLA Name: Provisioning		
<p><b>Definition:</b> 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 Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with IFB STPD 12-001-B Section B.2.5.4 #7 (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 Schedule per IFB STPD 12-001-B Business Requirements Section B.6 (Contracted Service Project Work).</p> <p>Provisioning SLAs have two (2) objectives:</p> <p>Objective 1: Individual Service Request; and</p> <p>Objective 2: Successful Install Monthly Percentage by Service Type.</p> <p>Note: Provisioning timelines include extended demarcation wiring, when appropriate.</p>		
<p><b>Measurement Process:</b></p> <p><u>Objective 1: Individual Service Request:</u> Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor. This objective requires the Contractor to meet the due date for each individual Service Request.</p> <p><u>Objective 2: Successful Install Monthly Percentage per service Type:</u> The Contractor shall sum all individual Service Requests per service, as listed below, meeting the objective in the measurement period (per month) and divide by the sum of all individual Service Requests due per service in the measurement period and multiply by 100 to equal the percentage of Service Requests installed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.</p>		
<b>Service (Features must be installed in conjunction with the service except when listed below)</b>	<b>Committed Interval Calendar Days</b>	<b>Coordinated/Managed Project</b>
MAE Service	30	Coordinated/Managed Project
AT&T Switched Ethernet (ASE) Service	30	Coordinated/Managed Project
OPT-E-WAN Service	30	Coordinated/Managed Project
DecaMAN Service	30	Coordinated/Managed Project
OPT-E-MAN Service	30	Coordinated/Managed Project
GigaMAN Service	30	Coordinated/Managed Project
EPLS WAN Service	30	Coordinated/Managed Project
AT&T Managed Router Solution (MRS)	30	Coordinated/Managed Project





Ethernet Access to Long Distance POP	30	Coordinated/Managed Project												
<p><b>Objective (s):</b> Objective 1: Individual Service Request: Service installed on or before the Committed Interval or negotiated due date. Objective 2: Successful Install Monthly Percentage per Service:</p> <table border="1" data-bbox="548 531 1396 982"> <thead> <tr> <th data-bbox="548 531 800 674"></th> <th data-bbox="800 531 930 674">Basic (B)</th> <th data-bbox="930 531 1073 674">Standard (S)</th> <th data-bbox="1073 531 1203 674">Premier (P)</th> <th data-bbox="1203 531 1396 674">Bidders Objective Commitment (S or P)</th> </tr> </thead> <tbody> <tr> <td data-bbox="548 674 800 982">MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&amp;T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN</td> <td data-bbox="800 674 930 982">N/A</td> <td data-bbox="930 674 1073 982">≥ 90%</td> <td data-bbox="1073 674 1203 982">≥ 95%</td> <td data-bbox="1203 674 1396 982">S</td> </tr> </tbody> </table>						Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (S or P)	MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	N/A	≥ 90%	≥ 95%	S
	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (S or P)										
MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	N/A	≥ 90%	≥ 95%	S										
Rights and Remedies	<p><b>Per Occurrence:</b> Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.</p>													
	<p><b>Monthly Aggregated Measurements:</b> Objective 2: 100 percent of the installation fee credited to Customer for all Service Requests (per service type) that did not complete on time during the month if the Successful Install Monthly Percentage is below the committed objective.</p>													

*Bidder understands the Requirement and shall meet or exceed it? Yes  No*





**3.5.8.10 Time to Repair (TTR) (M-S)**

SLA Name: Time to Repair (TTR)					
Definition: A service outage 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 unusable during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If Customer reports a service failure as unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time. This SLA is applied per occurrence.					
Service(s):					
MAE Service	AT&T Switched Ethernet (ASE) Service				
OPT-E-MAN Service	OPT-E-WAN Service				
GigaMAN Service	DecaMAN Service				
EPLS WAN Service	AT&T Managed Router Solution (MRS)				
Ethernet Access to Long Distance POP					
Objective (s): The Unavailable Time objective shall not exceed:					
	Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or S)
	MAE Service, ASE, OPT-E-MAN, OPT-E-WAN, GigaMAN, DecaMAN, AT&T Managed Router Solution (MRS), Ethernet Access to Long Distance POP, and EPLS WAN	6 hours	4 hours	N/A	S
Rights and Remedies	Per Occurrence: 25 percent of the TMRC per occurrence for each service (Circuit ID) out of service for a period greater than the committed objective level.				
	Monthly Aggregated Measurements: N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes   X   No \_\_\_\_\_





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### 3.5.8.11 Managed Service Proactive Notification (M-S)

SLA Name: Managed Service Proactive Notification	
<p><b>Definition:</b> 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 service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET 3 CMO.</p> <p>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.</p>	
<p><b>Measurement Process:</b> 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 (15) 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.</p>	
Service(s):	
MAE Services, with Managed Router	AT&T Managed Router Solution (MRS)
Objective (s): 15 minutes	
Rights and Remedies	<b>Per Occurrence:</b> Customer will receive a credit equal to ten percent of the TMRC for Managed Internet Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period
	<b>Monthly Aggregated Measurements:</b> N/A

Bidder understands the Requirement and shall meet or exceed it? Yes  X  No \_\_\_\_\_



### **3.5.8.12 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 the Requirement and shall meet or exceed it? Yes   X   No*

### **3.5.8.13 Proposed Unsolicited Offerings**

The Contractor shall provide SLAs as defined in SLA Section 3.5 for each unsolicited offering determined by the CALNET 3 CMO 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 the Requirement and shall meet or exceed it? Yes   X   No*

### **3.5.8.14 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 this Section 3.5.8.

*Bidder understands the Requirement and shall meet or exceed it? Yes   X   No*