

INVITATION FOR BID

IFB C4DNCS19

Data Networks and Communications Services

CATEGORY 23 – METROPOLITAN AREA
NETWORK ETHERNET

AT&T Enterprises, LLC.

Statement of Work

TECHNICAL REQUIREMENTS

March 5, 2020

BAFO

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Procurement

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Disclaimer: The original PDF version and any subsequent addendums of the IFB released by the Procurement Official of this Bid remain the official version. In the event of any inconsistency between the Bidder's versions, articles, attachments, specifications or provisions which constitute the Contract, the official State version of the IFB in its entirety shall take precedence.

AMENDMENT LOG

Amendment #	Date	Amendment Description
4	12/15/20	Added Header Updated Table 23.2.1.6.4 - Unsolicited MAE Services and Features Deleted entire Table 23.4.2.2 - Unsolicited Services Related Infrastructure Updated available Services in Sections 23.5.8.1, 23.5.8.2, 23.5.8.3, 23.5.8.4, 23.5.8.5, 23.5.8.7, 23.5.8.8, and 23.5.8.9, 23.5.8.10
6	4/23/21	Table of Contents – Updated Section 23.5.8.3 – Catastrophic Outage 2 reference link. Table 23.2.1.6.4 - Unsolicited MAE Services and Features, added CoS line items #891-1,026 and renumbered remainder of table.
11	8/15/2022	Table of Contents – updated Updated Table 23.2.1.6.4 – Unsolicited MAE Services and Features, to add services
25	11/07/2025	Changed contractor name from AT&T Corp. to AT&T Enterprises, LLC.

TABLE OF CONTENTS

23.1 OVERVIEW	5
23.1.1 BIDDER RESPONSE REQUIREMENTS	5
23.1.2 DESIGNATION OF REQUIREMENTS.....	6
23.1.3 PACIFIC TIME ZONE.....	6
23.2 ETHERNET SERVICES.....	6
23.2.1 METROPOLITAN AREA NETWORK ETHERNET (MAE) SERVICES	7
23.2.1.1 General Requirements	7
23.2.1.1.1 Standards	7
23.2.1.1.2 Security	7
23.2.1.1.3 Data Breach Reporting.....	7
23.2.1.1.4 End-to-End Ethernet Delivery	8
23.2.1.1.5 Ethernet Virtual Connections (EVC)	8
23.2.1.1.6 Ethernet User-to-Network Interface (UNI).....	8
23.2.1.1.7 Multiple Classes of Service (CoS)	8
23.2.1.1.8 Service Frame Delivery Options	8
23.2.1.1.9 Ethernet Service Frame Disposition.....	9
23.2.1.1.10 VLAN Tag Preservation.....	9
23.2.1.1.11 Maximum Frame Size	9
23.2.1.1.12 Jumbo Frames	9
23.2.1.1.13 Performance Monitoring	9
23.2.1.1.14 Network Monitoring.....	10
23.2.1.1.15 Technical Support	10
23.2.1.1.16 Maintenance	10
23.2.1.1.17 Equipment and Environment	11
23.2.1.1.18 Contractor Wi-Fi Hotspot Service Offerings	11
23.2.1.2 Ethernet Private Line (EPL) MAE Service	11
23.2.1.3 Ethernet Virtual Private Line (EVPL) MAE Service	12
23.2.1.4 EVPL MAE Service Multiplexing	12
23.2.1.5 EPL and EVPL MAE Classes of Service (CoS)	12
23.2.1.5.1 BASIC CoS MAE.....	12
23.2.1.5.2 PRIORITY CoS MAE.....	13
23.2.1.5.3 PREMIUM CoS MAE.....	13
23.2.1.6 EPL and EVPL MAE Service Feature Description	14
23.2.1.6.1 EPL and EVPL MAE Service Connections	14
23.2.1.6.2 Managed IP Enabled Routing Service:.....	14
23.2.1.6.3 MAE Backup Options	63

23.2.1.6.4 Additional Unsolicited MAE Services and Features.....	63
23.2.1.7 MAE Service Geographic Service Areas	266
23.3 NETWORK DISASTER/OPERATIONAL RECOVERY	279
23.3.1 TELECOMMUNICATIONS SERVICE PRIORITY (TSP) PROGRAM	279
23.4 OTHER SERVICES	279
23.4.1 HOURLY RATES FOR SERVICES	279
23.4.2 SERVICES RELATED INFRASTRUCTURE (SRI).....	279
23.4.2.1 Extended Demarcation Wiring Services	279
23.4.2.2 Unsolicited Services Related Infrastructure	288
23.4.3 SERVICES RELATED HOURLY SUPPORT	289
23.5 SERVICE LEVEL AGREEMENTS (SLA)	292
23.5.1 SERVICE LEVEL AGREEMENT FORMAT	292
23.5.2 TECHNICAL REQUIREMENTS VERSUS SLA OBJECTIVES	292
23.5.3 METHODS OF OUTAGE REPORTING: CUSTOMER OR CONTRACTOR	293
23.5.4 BIDDER RESPONSE TO SERVICE LEVEL AGREEMENTS	293
23.5.5 CONTRACTOR SLA MANAGEMENT PLAN	293
23.5.6 TECHNICAL SLA GENERAL REQUIREMENTS.....	294
23.5.7 TROUBLE TICKET STOP CLOCK CONDITIONS	296
23.5.8 TECHNICAL SERVICE LEVEL AGREEMENTS (SLA)	301
23.5.8.1 Availability (M-S).....	301
23.5.8.2 Catastrophic Outage 1 (CAT 1) (M-S)	303
23.5.8.3 Catastrophic Outage 2 (CAT 2) (M-S)	304
23.5.8.4 Catastrophic Outage 3 (CAT 3) (M-S)	306
23.5.8.5 Excessive Outage (M-S).....	308
23.5.8.6 Notification	310
23.5.8.7 Latency (M-S)	311
23.5.8.8 Packet Loss (M-S)	313
23.5.8.9 Provisioning (M-S)	315
23.5.8.10 Time to Repair (M-S).....	317
23.5.8.11 Managed Service Proactive Notification.....	319
23.5.8.12 Unsolicited Service Enhancement SLAs	320
23.5.8.13 Proposed Unsolicited Offerings.....	320
23.5.8.14 Contract Amendment Service Enhancement SLAs	320

TECHNICAL REQUIREMENTS

Category 23 – METROPOLITAN AREA NETWORK ETHERNET

23.1 OVERVIEW

The California Department of Technology (CDT), Statewide Telecommunications Procurement (STP) is requesting proposals from responsive vendors to provide Metropolitan Area Network (MAN) Ethernet services and features.

This Category 23 IFB C4DNCS19 (IFB) provides the State's solicitation for best value solutions for MAN Ethernet services. This IFB also describes the CALNET technical requirements necessary to support the CALNET program requirements.

This IFB will be awarded to Bidders that meet the award criteria as described in IFB C4DNCS19 Part 1, Bid Evaluation. The CALNET Data Network and Communications Services (DNCS) Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET Contractor Management Organization (CALNET CMO).

23.1.1 Bidder Response Requirements

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

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

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

Or,

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

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

Description:”

Or,

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

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidders Product Identifier	Bidder Meets or Exceeds? Yes or No
1					Yes

23.1.2 Designation of Requirements

All Technical Requirements specified in this IFB C4DNCS19 are Mandatory and must be responded to as identified in IFB C4DNCS19 Part 1, SOW Mandatory Technical Requirements by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)".

Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the 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.

23.1.3 Pacific Time Zone

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

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

23.2 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 or more Local Area Networks (LANs) at the native speed of the LAN backbone.

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

23.2.1 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 or more locations.

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

23.2.1.1 General Requirements

23.2.1.1.1 Standards

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

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

2. Metro Ethernet Forum (MEF);

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

3. Internet Engineering Task Force;

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

4. International Telecommunications Union (ITU); and,

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

5. Institute of Electrical and Electronics Engineers, Inc. (IEEE).

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

23.2.1.1.2 Security

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

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

23.2.1.1.3 Data Breach Reporting

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

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

23.2.1.1.4 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 requirements and shall meet or exceed them? Yes

23.2.1.1.5 Ethernet Virtual Connections (EVC)

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

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

23.2.1.1.6 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 23.2.1.1.6 lists the UNI physical interfaces.

Table 23.2.1.1.6 – UNI Physical Interfaces

UNI Speed	UNI Physical Interface
10 Mbps	10/100/1000Base-Tx
100 Mbps	10/100/1000Base-Tx or Sx
1 Gbps	1000Base-Tx or 1000Base-SX
10 Gbps	10GBase-SR or 10GBase-LR

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

23.2.1.1.7 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 requirements and shall meet or exceed them? Yes

23.2.1.1.8 Service Frame Delivery Options

Service Frame Delivery options supported shall include:

1. Unicast Frame Delivery;

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

2. Multicast Frame Delivery as per RFC 1112;

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

3. IEEE 802.1 Bridging and Management Standards; and,

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

4. Broadcast Frame Delivery as per IEEE 802.3.

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

23.2.1.1.9 Ethernet Service Frame Disposition

The service shall deliver all service frames associated with the EVC unconditionally across the network as specified in Table 23.2.1.1.19.

Table 23.2.1.1.9 –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 requirements and shall meet or exceed them? Yes

23.2.1.1.10 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 requirements and shall meet or exceed them? Yes

23.2.1.1.11 Maximum Frame Size

The service shall support a Maximum Transmission Unit (MTU) packet size of 1,600 bytes to support untagged or 802.1Q tagged packet sizes.

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

23.2.1.1.12 Jumbo Frames

The Contractor's network shall support Jumbo Frames.

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

23.2.1.1.13 Performance Monitoring

The Contractor shall conduct Performance Monitoring that includes the following:

1. Signal failure;

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

2. Signal degradation;

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

3. Connectivity or Loss of connectivity;

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

4. Frame loss;

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

5. Errored frames;

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

6. Looping;

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

7. Mis-inserted frames; and,

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

8. Maintenance parameters.

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

23.2.1.1.14 Network Monitoring

The Contractor shall monitor all services on a 24x7 basis.

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

23.2.1.1.15 Technical Support

Contractor shall provide technical support for service issues via a toll-free telephone number that operates on a 24x7 basis.

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

23.2.1.1.16 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 days' notice for service impacting planned maintenance. Emergency maintenance shall be performed as needed.

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

23.2.1.1.17 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.

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

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

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

23.2.1.1.18 Contractor Wi-Fi Hotspot Service Offerings

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

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

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

23.2.1.2 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 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 Ethernet Virtual Connection (EVC) between two Customer locations.

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

23.2.1.3 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 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 requirements and shall meet or exceed them? Yes

23.2.1.4 EVPL MAE Service Multiplexing

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

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

23.2.1.5 EPL and EVPL MAE Classes of Service (CoS)

Contractor shall provide three Classes of Service (CoS) options for the EPL/EVPL MAE services – 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.

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

23.2.1.5.1 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.

The Contractor shall offer CIR - BASIC CoS services and features detailed in Table 23.2.1.6.b.

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

23.2.1.5.2 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 23.2.1.5.2.

Table 23.2.1.5.2 lists the service performance objectives for PRIORITY CoS for distances within 250 network miles.

The Contractor shall offer CIR – PRIORITY CoS services and features detailed in Table 23.2.1.6.c.

Table 23.2.1.5.2 – PRIORITY CoS Performance Objectives

Performance Objective (≤ 250 miles)	PRIORITY CoS
Latency (one way)	<25ms
Jitter (one way)	<15ms
Packet Loss (one way)	<0.5%
Availability	>99.99%

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

23.2.1.5.3 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 23.2.1.5.3.

Table 23.2.1.5.3 lists the service performance objectives for PREMIUM CoS for distances within 250 network miles.

The Contractor shall offer CIR - PREMIUM CoS services and features detailed in Table 23.2.1.6.d.

Table 23.2.1.5.3 – PREMIUM CoS Performance Objectives

Performance Objective (≤ 250 miles)	PREMIUM CoS
Latency (one way)	<15ms
Jitter (one way)	<5ms

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

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

23.2.1.6 EPL and EVPL MAE Service Feature Description

Contractor shall provide MAE services as described below.

23.2.1.6.1 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 Ethernet Virtual Connection (EVC).

1. Network Interface (NI): The point that the Customer's data transmission enters the Contractor's network. The point of interconnection between the Contractor's communication facility and Customer end-user's terminal equipment.

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

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.

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

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.

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

23.2.1.6.2 Managed IP Enabled Routing Service:

1. Contractor shall offer a managed router or IP enabled routing device service that includes the components described in Section 23.2.1.6.1 in a bundled format which includes a Contractor owned, maintained and managed router or managed IP enabled routing device as identified in Table 23.2.1.6.a.

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

2. The Contactor's managed routing service shall include proactive Customer notification.

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

3. The Contractor shall provide customers full read only access to the managed router or managed IP enabled routing device.

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

Contractors shall provide the services and Features described in Table 23.2.1.6.a

Table 23.2.1.6.a – MAE Services and Features

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
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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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYQEX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

2	EPL MAE Service Connection 10/100 Mbps with Managed IP Enabled Routing Device	10/100 Mbps Ethernet port per location with managed IP enabled routing device; 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYQEXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.		

3	EPL MAE Service Connection Gigabit Ethernet (1 Gbps)	1 Gbps Ethernet port per location; Assessed per interface at bandwidths of 1 Gbps 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYQFX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

4	EPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed IP Enabled Routing Device	1 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 1 Gbps 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYQFXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.		

5	EPL MAE Service Connection Gigabit Ethernet (10 GE)	10 Gbps Ethernet port per location; Assessed per interface at bandwidths of 10 Gbps 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYQGX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

6	EPL MAE Service Connection Gigabit Ethernet (10 GE) with Managed IP Enabled Routing Device	10 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 10 Gbps 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYQGXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			<p>to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.</p>		

7	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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYVEX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

8	EVPL MAE Service Connection 10/100 Mbps with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed IP enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYVEXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.		

9	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps)	Assessed per interface at bandwidths of 1 Gbps 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 EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYVFX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

10	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 1 Gbps Ethernet with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYVFXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.		

11	EVPL MAE Service Connection 10 Gigabit Ethernet (10 GE)	Assessed per interface at bandwidths of 10 GE. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port. ASE 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-	EYVGX	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			multipoint configurations. 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. Access is subject to availability of facilities.		

12	EVPL MAE Service Connection 10 Gigabit Ethernet (10 GE) with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 10 GE with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	AT&T Switched Ethernet Service (ASE) Port with managed IP enabled routing device. ASE 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-	EYVGXR	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			to-point, point-to-multipoint or multipoint-to-multipoint configurations. 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. Access is subject to availability of facilities.		

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
13	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 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.	Additional ASE MAC Addresses. Maximum of 500.	M2CBX	Yes

14	Ethernet Virtual Connection (EVC) MAE	<p>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.</p>	<p>EVC rate element. Ethernet Virtual Connection (EVC) is a logical connection between two or more Ethernet ports to form a network. A port can be configured to connect to one EVC, or multiple EVCs. 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. Point-to-point EVCs can be set in 1 Mbps increments from 1 Mbps to 2,000 Mbps. Multipoint EVCs can be set in 1Mbps increments from 1 Mbps to 1,000</p>	ASEVC	Yes
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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
			Mbps. The default maximum EVC CIR will be 2000 Mbps. Requests for EVC CIR greater than 2000Mbps will be considered on an Individual Case Basis, taking into consideration factors such as facility conditions and the impact of the requested configuration on network performance.		

Contractor shall provide the Services and Features described in Table 23.2.1.6.b.

Table 23.2.1.6.b – CIR Basic Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	BASIC CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E2XNH	Yes
2	BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E4XNH	Yes
3	BASIC CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EAXNH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
4	BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E8XNH	Yes
5	BASIC CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EBXNH	Yes
6	BASIC CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EDXNH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
7	BASIC CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EHXNH	Yes
8	BASIC CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ELXNH	Yes
9	BASIC CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ENXNH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
10	BASIC CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ERXNH	Yes
11	BASIC CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EQXNH	Yes
12	BASIC CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ESXNH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
13	BASIC CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ETXNH	Yes
14	BASIC CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EUXNH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
15	BASIC CIR MAE - 1 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 1 Gbps or EPL/EVPL 10 Gbps service connections only.	R6EZXNH	Yes
16	BASIC CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 10 Gbps service connections only.	R61SXNH	Yes

Contractor shall provide the Services and Features described in Table 23.2.1.6.c.

Table 23.2.1.6.c – CIR Priority Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E2XIA	Yes
2	PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E4XIA	Yes
3	PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EAXIA	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
4	PRIORITY CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E8XIA	Yes
5	PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EBXIA	Yes
6	PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EDXIA	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
7	PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EHXIA	Yes
8	PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ELXIA	Yes
9	PRIORITY CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ENXIA	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
10	PRIORITY CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ERXIA	Yes
11	PRIORITY CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EQXIA	Yes
12	PRIORITY CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ESXIA	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
13	PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ETXIA	Yes
14	PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EUXIA	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
15	PRIORITY CIR MAE - 1 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 1 Gbps or EPL/EVPL 10 Gbps service connections only.	R6EZXA	Yes
16	PRIORITY CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 10 Gbps service connections only.	R61SXA	Yes

Contractor shall provide the Services and Features described in Table 23.2.1.6.d.

Table 23.2.1.6.d CIR – Premium Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E2XRT	Yes
2	PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E4XRT	Yes
3	PREMIUM CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EAXRT	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
4	PREMIUM CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6E8XRT	Yes
5	PREMIUM CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EBXRT	Yes
6	PREMIUM CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EDXRT	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
7	PREMIUM CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EHXRT	Yes
8	PREMIUM CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ELXRT	Yes
9	PREMIUM CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ENXRT	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
10	PREMIUM CIR MAE - 200Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ERXRT	Yes
11	PREMIUM CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EQXRT	Yes
12	PREMIUM CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ESXRT	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
13	PREMIUM CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6ETXRT	Yes
14	PREMIUM CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	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.	R6EUXRT	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
15	PREMIUM CIR MAE -1 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 1 Gbps or EPL/EVPL 10 Gbps service connections only.	R6EZRT	Yes
16	PREMIUM CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	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. Available to order with EPL/EVPL MAE 10 Gbps service connections only.	R61SXRT	Yes

23.2.1.6.3 MAE Backup Options

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

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

23.2.1.6.4 Additional Unsolicited MAE Services and Features

The Bidder may offer additional unsolicited MAE services and features in Table 23.2.1.6.4.

Table 23.2.1.6.4 – Unsolicited MAE Services and Features

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	ASE (BSA) Committed Information Rate – 2 Mbps Business Critical High	R6E2XBH	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).
2	ASE (BSA) Committed Information Rate – 4 Mbps Business Critical High	R6E4XBH	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).
3	ASE (BSA) Committed Information Rate – 5 Mbps Business Critical High	R6EAXBH	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).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
4	ASE (BSA) Committed Information Rate – 8 Mbps Business Critical High	R6E8XBH	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).
5	ASE (BSA) Committed Information Rate – 10 Mbps Business Critical High	R6EBXBH	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).
6	ASE (BSA) Committed Information Rate – 20 Mbps Business Critical High	R6EDXBH	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).
7	ASE (BSA) Committed Information Rate – 50 Mbps Business Critical High	R6EHXBH	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).
8	ASE (BSA) Committed Information Rate – 100 Mbps Business Critical High	R6ELXBH	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).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
9	ASE (BSA) Committed Information Rate – 150 Mbps Business Critical High	R6ENXBH	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).
10	ASE (BSA) Committed Information Rate – 250 Mbps Business Critical High	R6EQXBH	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).
11	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical High	R6ESXBH	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).
12	ASE (BSA) Committed Information Rate – 500 Mbps Business Critical High	R6ETXBH	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).
13	ASE (BSA) Committed Information Rate – 600 Mbps Business Critical High	R6EUXBH	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).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Critical High Class of Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
22	ASE (BSA) Committed Information Rate – 2 Mbps Business Critical Medium	R6E2XBM	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).
23	ASE (BSA) Committed Information Rate – 4 Mbps Business Critical Medium	R6E4XBM	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).
24	ASE (BSA) Committed Information Rate – 5 Mbps Business Critical Medium	R6EAXBM	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).
25	ASE (BSA) Committed Information Rate – 8 Mbps Business Critical Medium	R6E8XBM	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).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
26	ASE (BSA) Committed Information Rate – 10 Mbps Business Critical Medium	R6EBXBM	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).
27	ASE (BSA) Committed Information Rate – 20 Mbps Business Critical Medium	R6EDXBM	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).
28	ASE (BSA) Committed Information Rate – 50 Mbps Business Critical Medium	R6EHXBM	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).
29	ASE (BSA) Committed Information Rate – 100 Mbps Business Critical Medium	R6ELXBM	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).
30	ASE (BSA) Committed Information Rate – 150 Mbps Business Critical Medium	R6ENXBM	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).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
31	ASE (BSA) Committed Information Rate – 250 Mbps Business Critical Medium	R6EQXBM	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).
32	ASE (BSA) Committed Information Rate – 400 Mbps Business Critical Medium	R6ESXBM	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).
33	ASE (BSA) Committed Information Rate – 500 Mbps Business Critical Medium	R6ETXBM	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).
34	ASE (BSA) Committed Information Rate – 600 Mbps Business Critical Medium	R6EUXBM	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).
35	ASE (BSA) Committed Information Rate – 1 Gbps Business Critical Medium	R6EZXBM	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 (CoS). Available to order with

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			EPL/EVPL MAE 1 Gbps or EPL/EVPL 10 Gbps service connections only.
36	ASE (BSA) Committed Information Rate – 2000 Mbps Business Critical Medium	R61BXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
37	ASE (BSA) Committed Information Rate – 2500 Mbps Business Critical Medium	R61CXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
38	ASE (BSA) Committed Information Rate – 4000 Mbps Business Critical Medium	R61FXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
39	ASE (BSA) Committed Information Rate – 5000 Mbps Business Critical Medium	R61HXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
40	ASE (BSA) Committed Information Rate – 7500 Mbps Business Critical Medium	R61NXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
41	ASE (BSA) Committed Information Rate – 9500 Mbps Business Critical Medium	R61RXBM	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
42	ASE (BSA) Committed Information Rate – 10 Gbps Business Critical Medium	R61SXBM	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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
43	ASE (BSA) Committed Information Rate – 2000 Mbps Non-Critical High	R61BXNH	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
44	ASE (BSA) Committed Information Rate – 2500 Mbps Non-Critical High	R61CXNH	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
45	ASE (BSA) Committed Information Rate – 4000 Mbps Non-Critical High	R61FXNH	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
46	ASE (BSA) Committed Information Rate – 5000 Mbps Non-Critical High	R61HXNH	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-

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Critical High Class of Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
47	ASE (BSA) Committed Information Rate – 7500 Mbps Non-Critical High	R61NXNH	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
48	ASE (BSA) Committed Information Rate – 9500 Mbps Non-Critical High	R61RXNH	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
49	ASE (BSA) Committed Information Rate – 2000 Mbps Real Time	R61BXRT	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
50	ASE (BSA) Committed Information Rate – 2500 Mbps Real Time	R61CXRT	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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Class of Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
51	ASE (BSA) Committed Information Rate – 4000 Mbps Real Time	R61FXRT	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
52	ASE (BSA) Committed Information Rate – 5000 Mbps Real Time	R61HXRT	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
53	ASE (BSA) Committed Information Rate – 7500 Mbps Real Time	R61NXRT	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
54	ASE (BSA) Committed Information Rate – 9500 Mbps Real Time	R61RXRT	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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Class of Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
55	ASE (BSA) Committed Information Rate – 2000 Mbps Interactive	R61BXIA	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
56	ASE (BSA) Committed Information Rate – 2500 Mbps Interactive	R61CXIA	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
57	ASE (BSA) Committed Information Rate – 4000 Mbps Interactive	R61FXIA	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
58	ASE (BSA) Committed Information Rate – 5000 Mbps Interactive	R61HXIA	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.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Interactive Class of Service (CoS). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
59	ASE (BSA) Committed Information Rate – 7500 Mbps Interactive	R61NXIA	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
60	ASE (BSA) Committed Information Rate – 9500 Mbps Interactive	R61RXIA	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). Available to order with EPL/EVPL MAE 10 Gbps service connections only.
61	ASE (PPCoS) Connection 10/100 Mbps	EYQLX	ASE PPCoS 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. Access is subject to availability of facilities. This service arrangement provides transport of data with variable Classes of Service within an

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			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.
62	ASE (PPCoS) Connection 1 Gigabit Ethernet	EYQMX	ASE PPCoS 1 Gbps 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. Access is subject to availability of facilities. 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.
63	ASE (PPCoS) Connection 10	EYQNX	ASE PPCoS 10Gbps Ethernet port per location; Assessed per interface at bandwidths of

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Gigabit Ethernet		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. Access is subject to availability of facilities. 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.
64	ASE (PPCoS) Committed Information Rate – 2 Mbps Multimedia High	R6E2XMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
65	ASE (PPCoS) Committed Information Rate – 4 Mbps	R6E4XMH	ASE PPCoS - A statistically guaranteed level of transmission or guaranteed bandwidth that the network will provide to the EVC. The

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Multimedia High		sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
66	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia High	R6EAXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
67	ASE (PPCoS) Committed Information Rate – 8 Mbps Multimedia High	R6E8XMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
68	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia High	R6EBXMH	ASE PPCoS - 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). Available to

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			order with ASE (PPCoS) Connection 10/100 Mbps ports only.
69	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia High	R6EDXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
70	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia High	R6EHXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
71	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia High	R6ELXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
72	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia High	R6ENXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
73	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia High	R6EQXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
74	ASE (PPCoS) Committed Information Rate – 400 Mbps Multimedia High	R6ESXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
75	ASE (PPCoS) Committed Information Rate – 500	R6ETXMH	ASE PPCoS - A statistically guaranteed level of transmission or guaranteed bandwidth that the network

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Mbps Multimedia High		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia High Class of Service (CoS). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
76	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia High	R6EUXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
77	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia High	R6EZXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit or 10 Gigabit Ethernet ports only.
78	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia High	R61BXMH	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Service (CoS). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
79	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia High	R61CXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
80	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia High	R61FXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
81	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia High	R61HXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
82	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia High	R61NXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
83	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia High	R61RXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
84	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia High	R61SXMH	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
85	ASE (PPCoS) Committed Information Rate – 2 Mbps	R6E2XMS	ASE PPCoS - A statistically guaranteed level of transmission or guaranteed bandwidth that the network

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Multimedia Standard		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
86	ASE (PPCoS) Committed Information Rate – 4 Mbps Multimedia Standard	R6E4XMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
87	ASE (PPCoS) Committed Information Rate – 5 Mbps Multimedia Standard	R6EAXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
88	ASE (PPCoS) Committed Information Rate – 8 Mbps Multimedia Standard	R6E8XMS	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Service (CoS). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
89	ASE (PPCoS) Committed Information Rate – 10 Mbps Multimedia Standard	R6EBXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
90	ASE (PPCoS) Committed Information Rate – 20 Mbps Multimedia Standard	R6EDXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
91	ASE (PPCoS) Committed Information Rate – 50 Mbps Multimedia Standard	R6EHXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
92	ASE (PPCoS) Committed Information Rate – 100 Mbps Multimedia Standard	R6ELXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
93	ASE (PPCoS) Committed Information Rate – 150 Mbps Multimedia Standard	R6ENXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
94	ASE (PPCoS) Committed Information Rate – 250 Mbps Multimedia Standard	R6EQXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
95	ASE (PPCoS) Committed Information Rate – 400	R6ESXMS	ASE PPCoS - A statistically guaranteed level of transmission or guaranteed bandwidth that the network

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Mbps Multimedia Standard		will provide to the EVC. The sum total of the EVCs should not exceed the CIR. Multimedia Standard Class of Service (CoS). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
96	ASE (PPCoS) Committed Information Rate – 500 Mbps Multimedia Standard	R6ETXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
97	ASE (PPCoS) Committed Information Rate – 600 Mbps Multimedia Standard	R6EUXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
98	ASE (PPCoS) Committed Information Rate – 1000 Mbps Multimedia Standard	R6EZMS	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Service (CoS). Available to order with ASE (PPCoS) Connection 1 Gigabit or 10 Gigabit Ethernet ports only.
99	ASE (PPCoS) Committed Information Rate – 2000 Mbps Multimedia Standard	R61BXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
100	ASE (PPCoS) Committed Information Rate – 2500 Mbps Multimedia Standard	R61CXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
101	ASE (PPCoS) Committed Information Rate – 4000 Mbps Multimedia Standard	R61FXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS)

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Connection 10 Gigabit Ethernet ports only.
102	ASE (PPCoS) Committed Information Rate – 5000 Mbps Multimedia Standard	R61HXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
103	ASE (PPCoS) Committed Information Rate – 7500 Mbps Multimedia Standard	R61NXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
104	ASE (PPCoS) Committed Information Rate – 9500 Mbps Multimedia Standard	R61RXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS)

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Connection 10 Gigabit Ethernet ports only.
105	ASE (PPCoS) Committed Information Rate – 10000 Mbps Multimedia Standard	R61SXMS	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
106	ASE (PPCoS) Committed Information Rate – 2 Mbps Critical Data	R6E2XCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
107	ASE (PPCoS) Committed Information Rate – 4 Mbps Critical Data	R6E4XCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
108	ASE (PPCoS) Committed Information Rate – 5 Mbps Critical Data	R6EAXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
109	ASE (PPCoS) Committed Information Rate – 8 Mbps Critical Data	R6E8XCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
110	ASE (PPCoS) Committed Information Rate – 10 Mbps Critical Data	R6EBXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
111	ASE (PPCoS) Committed Information Rate – 20 Mbps Critical Data	R6EDXCD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
112	ASE (PPCoS) Committed Information Rate – 50 Mbps Critical Data	R6EHXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
113	ASE (PPCoS) Committed Information Rate – 100 Mbps Critical Data	R6ELXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
114	ASE (PPCoS) Committed Information Rate – 150 Mbps Critical Data	R6ENXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
115	ASE (PPCoS) Committed Information Rate – 250 Mbps Critical Data	R6EQXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
116	ASE (PPCoS) Committed Information Rate – 400 Mbps Critical Data	R6ESXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
117	ASE (PPCoS) Committed Information Rate – 500 Mbps Critical Data	R6ETXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
118	ASE (PPCoS) Committed Information Rate – 600 Mbps Critical Data	R6EUXCD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
119	ASE (PPCoS) Committed Information Rate – 1000 Mbps Critical Data	R6EZXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit or 10 Gigabit Ethernet ports only.
120	ASE (PPCoS) Committed Information Rate – 2000 Mbps Critical Data	R61BXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
121	ASE (PPCoS) Committed Information Rate – 2500 Mbps Critical Data	R61CXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
122	ASE (PPCoS) Committed Information Rate – 4000 Mbps Critical Data	R61FXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
123	ASE (PPCoS) Committed Information Rate – 5000 Mbps Critical Data	R61HXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
124	ASE (PPCoS) Committed Information Rate – 7500 Mbps Critical Data	R61NXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
125	ASE (PPCoS) Committed Information Rate – 9500 Mbps Critical Data	R61RXCD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
126	ASE (PPCoS) Committed Information Rate – 10000 Mbps Critical Data	R61SXCD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
127	ASE (PPCoS) Committed Information Rate – 2 Mbps Business Data	R6E2XBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
128	ASE (PPCoS) Committed Information Rate – 4 Mbps Business Data	R6E4XBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
129	ASE (PPCoS) Committed Information Rate – 5 Mbps Business Data	R6EAXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
130	ASE (PPCoS) Committed Information Rate – 8 Mbps Business Data	R6E8XBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
131	ASE (PPCoS) Committed Information Rate – 10 Mbps Business Data	R6EBXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
132	ASE (PPCoS) Committed Information Rate – 20 Mbps Business Data	R6EDXBD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
133	ASE (PPCoS) Committed Information Rate – 50 Mbps Business Data	R6EHXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
134	ASE (PPCoS) Committed Information Rate – 100 Mbps Business Data	R6ELXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10/100 Mbps ports only.
135	ASE (PPCoS) Committed Information Rate – 150 Mbps Business Data	R6ENXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
136	ASE (PPCoS) Committed Information Rate – 250 Mbps Business Data	R6EQXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
137	ASE (PPCoS) Committed Information Rate – 400 Mbps Business Data	R6ESXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
138	ASE (PPCoS) Committed Information Rate – 500 Mbps Business Data	R6ETXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
139	ASE (PPCoS) Committed Information Rate – 600 Mbps Business Data	R6EUXBD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 1 Gigabit Ethernet ports only.
140	ASE (PPCoS) Committed Information Rate – 1000 Mbps Business Data	R6EZXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 1 Gigabit or 10 Gigabit Ethernet ports only.
141	ASE (PPCoS) Committed Information Rate – 2000 Mbps Business Data	R61BXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
142	ASE (PPCoS) Committed Information Rate – 2500 Mbps Business Data	R61CXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
143	ASE (PPCoS) Committed Information Rate – 4000 Mbps Business Data	R61FXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
144	ASE (PPCoS) Committed Information Rate – 5000 Mbps Business Data	R61HXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
145	ASE (PPCoS) Committed Information Rate – 7500 Mbps Business Data	R61NXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
146	ASE (PPCoS) Committed Information Rate – 9500 Mbps Business Data	R61RXBD	ASE PPCoS - 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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Data Class of Service (CoS). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
147	ASE (PPCoS) Committed Information Rate – 10000 Mbps Business Data	R61SXBD	ASE PPCoS - 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). Available to order with ASE (PPCoS) Connection 10 Gigabit Ethernet ports only.
148	ASE Regenerator 10/100 Mbps port	EYQHX	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.
149	ASE Regenerator 1 Gbps port	EYQJX	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.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
150	ASE Regenerator 10 Gbps port	EYQKX	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.
151	ASE Alternate Service Switch 0-10 miles	1HHEK	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.
152	ASE Alternate Service Switch 11-25 miles	1HHEL	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

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			alternate switch wire center and the Customer's premises' normal serving wire center.
153	ASE Alternate Service Switch 26-35 miles	1HHEM	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.
154	ASE Alternate Service Switch 36-50 miles	1HHEN	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.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
155	Diverse Access	EY7AD	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.
156	ASE Enhanced Multicast Per Port	EY7AE	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.
157	Advanced Access Failover 1G	EY7AA	Advanced Access Failover ("AAF") provides automatic failover to a redundant facility

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			in the event of a failure of a protected facility.
158	Advanced Access Failover 10G	EY7AB	Advanced Access Failover ("AAF") provides automatic failover to a redundant facility in the event of a failure of a protected facility.
159	ASE Administrative Change Charge	ORCMX	Service order change charge, per order, for customer initiated inside moves or reconfiguration of existing ASE ports and CIR.
160	InSBET 100-Base-TX/SX 2 Mbps Ethernet Transport	LNET2	2 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
161	InSBET 100-Base-TX/SX 4 Mbps Ethernet Transport	LNET4	4 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
162	InSBET 100-Base-TX/SX 5 Mbps Ethernet Transport	LNET5	5 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
163	InSBET 100-Base-TX/SX 8 Mbps Ethernet Transport	LNET8	8 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
164	InSBET 100-Base-TX/SX 10 Mbps Ethernet Transport	LNET10	10 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
165	InSBET 100-Base-TX/SX 20 Mbps Ethernet Transport	LNET20	20 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
166	InSBET 100-Base-TX/SX 50 Mbps Ethernet Transport	LNET50	50 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
167	InSBET 100-Base-TX/SX 100 Mbps Ethernet Transport	LNET100	100 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
168	InSBET 1000-Base-TX 150 Mbps Ethernet Transport	LNET150	150 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
169	InSBET 1000-Base-TX 250 Mbps Ethernet Transport	LNET250	250 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
170	InSBET 1000-Base-TX 500 Mbps Ethernet Transport	LNET500	500 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
171	InSBET 1000-Base-TX 600 Mbps Ethernet Transport On-Net	LNET600	600 Mbps Ethernet On-Net Access Service provides Ethernet access transport services for connection to Wide Area Network (WAN) services such as EPLS WAN, OPT-E-WAN, AVPN and ADI. Available in locations where

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
187	OEW Port - 10M	80399	OEW Port – Requires Ethernet access, charged separately.
188	OEW Port - 11M	80400	OEW Port – Requires Ethernet access, charged separately.
189	OEW Port - 12M	80401	OEW Port – Requires Ethernet access, charged separately.
190	OEW Port - 13M	80402	OEW Port – Requires Ethernet access, charged separately.
191	OEW Port - 14M	80403	OEW Port – Requires Ethernet access, charged separately.
192	OEW Port - 15M	80404	OEW Port – Requires Ethernet access, charged separately.
193	OEW Port - 16M	80405	OEW Port – Requires Ethernet access, charged separately.
194	OEW Port - 17M	80406	OEW Port – Requires Ethernet access, charged separately.
195	OEW Port - 18M	80407	OEW Port – Requires Ethernet access, charged separately.
196	OEW Port - 19M	80408	OEW Port – Requires Ethernet access, charged separately.
197	OEW Port - 20M	80409	OEW Port – Requires Ethernet access, charged separately.
198	OEW Port - 30M	80410	OEW Port – Requires Ethernet access, charged separately.
199	OEW Port - 40M	80411	OEW Port – Requires Ethernet access, charged separately.
200	OEW Port - 50M	80412	OEW Port – Requires Ethernet access, charged separately.
201	OEW Port - 60M	80413	OEW Port – Requires Ethernet access, charged separately.
202	OEW Port - 70M	80414	OEW Port – Requires Ethernet access, charged separately.
203	OEW Port - 80M	80415	OEW Port – Requires Ethernet access, charged separately.
204	OEW Port - 90M	80416	OEW Port – Requires Ethernet access, charged separately.
205	OEW Port - 100M	80417	OEW Port – Requires Ethernet access, charged separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
206	OEW Port - 150M	80418	OEW Port – Requires Ethernet access, charged separately.
207	OEW Port - 200M	80419	OEW Port – Requires Ethernet access, charged separately.
208	OEW Port - 250M	80420	OEW Port – Requires Ethernet access, charged separately.
209	OEW Port - 300M	80421	OEW Port – Requires Ethernet access, charged separately.
210	OEW Port - 350M	80422	OEW Port – Requires Ethernet access, charged separately.
211	OEW Port - 400M	80423	OEW Port – Requires Ethernet access, charged separately.
212	OEW Port - 450M	80424	OEW Port – Requires Ethernet access, charged separately.
213	OEW Port - 500M	80425	OEW Port – Requires Ethernet access, charged separately.
214	OEW Port - 550M	80426	OEW Port – Requires Ethernet access, charged separately.
215	OEW Port - 600M	80427	OEW Port – Requires Ethernet access, charged separately.
216	OEW Port - 650M	80428	OEW Port – Requires Ethernet access, charged separately.
217	OEW Port - 700M	80429	OEW Port – Requires Ethernet access, charged separately.
218	OEW Port - 750M	80430	OEW Port – Requires Ethernet access, charged separately.
219	OEW Port - 800M	80431	OEW Port – Requires Ethernet access, charged separately.
220	OEW Port - 850M	80432	OEW Port – Requires Ethernet access, charged separately.
221	OEW Port - 900M	80433	OEW Port – Requires Ethernet access, charged separately.
222	OEW Port - 950M	80434	OEW Port – Requires Ethernet access, charged separately.
223	OEW Port - 1G	80435	OEW Port – Requires Ethernet access, charged separately.
224	OEW Port - 1500M	96776	OEW Port – Requires Ethernet access, charged separately.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
225	OEW Port - 2000M	96778	OEW Port – Requires Ethernet access, charged separately.
226	OEW Port - 2500M	96780	OEW Port – Requires Ethernet access, charged separately.
227	OEW Port - 3000M	96782	OEW Port – Requires Ethernet access, charged separately.
228	OEW Port - 3500M	96784	OEW Port – Requires Ethernet access, charged separately.
229	OEW Port - 4000M	96786	OEW Port – Requires Ethernet access, charged separately.
230	OEW Port - 4500M	96788	OEW Port – Requires Ethernet access, charged separately.
231	OEW Port - 5000M	96790	OEW Port – Requires Ethernet access, charged separately. (InterState)
232	OEW Port - 5500M	96792	OEW Port – Requires Ethernet access, charged separately.
233	OEW Port - 6000M	96794	OEW Port – Requires Ethernet access, charged separately.
234	OEW Port - 6500M	96796	OEW Port – Requires Ethernet access, charged separately.
235	OEW Port - 7000M	96798	OEW Port – Requires Ethernet access, charged separately.
236	OEW Port - 7500M	96800	OEW Port – Requires Ethernet access, charged separately.
237	OEW Port - 8000M	96802	OEW Port – Requires Ethernet access, charged separately.
238	OEW Port - 8500M	96804	OEW Port – Requires Ethernet access, charged separately.
239	OEW Port - 9000M	96806	OEW Port – Requires Ethernet access, charged separately.
240	OEW Port - 9500M	96808	OEW Port – Requires Ethernet access, charged separately.
241	OEW Port - 10G	96810	OEW Port – Requires Ethernet access, charged separately.
242	OEW COS 1 - 0.5M	OW101	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
243	OEW COS 1 - 1M	OW102	Real Time - Designed for jitter and latency sensitive application like voice and video.
244	OEW COS 1 - 1.5M	OW103	Real Time - Designed for jitter and latency sensitive application like voice and video.
245	OEW COS 1 - 2M	OW104	Real Time - Designed for jitter and latency sensitive application like voice and video.
246	OEW COS 1 - 3M	OW105	Real Time - Designed for jitter and latency sensitive application like voice and video.
247	OEW COS 1 - 4M	OW106	Real Time - Designed for jitter and latency sensitive application like voice and video.
248	OEW COS 1 - 5M	OW107	Real Time - Designed for jitter and latency sensitive application like voice and video.
249	OEW COS 1 - 6M	OW108	Real Time - Designed for jitter and latency sensitive application like voice and video.
250	OEW COS 1 - 7M	OW109	Real Time - Designed for jitter and latency sensitive application like voice and video.
251	OEW COS 1 - 8M	OW110	Real Time - Designed for jitter and latency sensitive application like voice and video.
252	OEW COS 1 - 9M	OW111	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
253	OEW COS 1 - 10M	OW112	Real Time - Designed for jitter and latency sensitive application like voice and video.
254	OEW COS 1 - 11M	OW113	Real Time - Designed for jitter and latency sensitive application like voice and video.
255	OEW COS 1 - 12M	OW114	Real Time - Designed for jitter and latency sensitive application like voice and video.
256	OEW COS 1 - 13M	OW115	Real Time - Designed for jitter and latency sensitive application like voice and video.
257	OEW COS 1 - 14M	OW116	Real Time - Designed for jitter and latency sensitive application like voice and video.
258	OEW COS 1 - 15M	OW117	Real Time - Designed for jitter and latency sensitive application like voice and video.
259	OEW COS 1 - 16M	OW118	Real Time - Designed for jitter and latency sensitive application like voice and video.
260	OEW COS 1 - 17M	OW119	Real Time - Designed for jitter and latency sensitive application like voice and video.
261	OEW COS 1 - 18M	OW120	Real Time - Designed for jitter and latency sensitive application like voice and video.
262	OEW COS 1 - 19M	OW121	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
263	OEW COS 1 - 20M	OW122	Real Time - Designed for jitter and latency sensitive application like voice and video.
264	OEW COS 1 - 30M	OW123	Real Time - Designed for jitter and latency sensitive application like voice and video.
265	OEW COS 1 - 40M	OW124	Real Time - Designed for jitter and latency sensitive application like voice and video.
266	OEW COS 1 - 50M	OW125	Real Time - Designed for jitter and latency sensitive application like voice and video.
267	OEW COS 1 - 60M	OW126	Real Time - Designed for jitter and latency sensitive application like voice and video.
268	OEW COS 1 - 70M	OW127	Real Time - Designed for jitter and latency sensitive application like voice and video.
269	OEW COS 1 - 80M	OW128	Real Time - Designed for jitter and latency sensitive application like voice and video.
270	OEW COS 1 - 90M	OW129	Real Time - Designed for jitter and latency sensitive application like voice and video.
271	OEW COS 1 - 100M	OW130	Real Time - Designed for jitter and latency sensitive application like voice and video.
272	OEW COS 1 - 150M	OW131	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
273	OEW COS 1 - 200M	OW132	Real Time - Designed for jitter and latency sensitive application like voice and video.
274	OEW COS 1 - 250M	OW133	Real Time - Designed for jitter and latency sensitive application like voice and video.
275	OEW COS 1 - 300M	OW134	Real Time - Designed for jitter and latency sensitive application like voice and video.
276	OEW COS 1 - 350M	OW135	Real Time - Designed for jitter and latency sensitive application like voice and video.
277	OEW COS 1 - 400M	OW136	Real Time - Designed for jitter and latency sensitive application like voice and video.
278	OEW COS 1 - 450M	OW137	Real Time - Designed for jitter and latency sensitive application like voice and video.
279	OEW COS 1 - 500M	OW138	Real Time - Designed for jitter and latency sensitive application like voice and video.
280	OEW COS 1 - 550M	OW139	Real Time - Designed for jitter and latency sensitive application like voice and video.
281	OEW COS 1 - 600M	OW140	Real Time - Designed for jitter and latency sensitive application like voice and video.
282	OEW COS 1 - 650M	OW141	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
283	OEW COS 1 - 700M	OW142	Real Time - Designed for jitter and latency sensitive application like voice and video.
284	OEW COS 1 - 750M	OW143	Real Time - Designed for jitter and latency sensitive application like voice and video.
285	OEW COS 1 - 800M	OW144	Real Time - Designed for jitter and latency sensitive application like voice and video.
286	OEW COS 1 - 850M	OW145	Real Time - Designed for jitter and latency sensitive application like voice and video.
287	OEW COS 1 - 900M	OW146	Real Time - Designed for jitter and latency sensitive application like voice and video.
288	OEW COS 1 - 950M	OW147	Real Time - Designed for jitter and latency sensitive application like voice and video.
289	OEW COS 1 - 1G	OW148	Real Time - Designed for jitter and latency sensitive application like voice and video.
290	OEW COS 1 - 1500M	OW149	Real Time - Designed for jitter and latency sensitive application like voice and video.
291	OEW COS 1 - 2000M	OW150	Real Time - Designed for jitter and latency sensitive application like voice and video.
292	OEW COS 1 - 2500M	OW151	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
293	OEW COS 1 - 3000M	OW152	Real Time - Designed for jitter and latency sensitive application like voice and video.
294	OEW COS 1 - 3500M	OW153	Real Time - Designed for jitter and latency sensitive application like voice and video.
295	OEW COS 1 - 4000M	OW154	Real Time - Designed for jitter and latency sensitive application like voice and video.
296	OEW COS 1 - 4500M	OW155	Real Time - Designed for jitter and latency sensitive application like voice and video.
297	OEW COS 1 - 5000M	OW156	Real Time - Designed for jitter and latency sensitive application like voice and video.
298	OEW COS 1 - 5500M	OW157	Real Time - Designed for jitter and latency sensitive application like voice and video.
299	OEW COS 1 - 6000M	OW158	Real Time - Designed for jitter and latency sensitive application like voice and video.
300	OEW COS 1 - 6500M	OW159	Real Time - Designed for jitter and latency sensitive application like voice and video.
301	OEW COS 1 - 7000M	OW160	Real Time - Designed for jitter and latency sensitive application like voice and video.
302	OEW COS 1 - 7500M	OW161	Real Time - Designed for jitter and latency sensitive application like voice and video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
303	OEW COS 1 - 8000M	OW162	Real Time - Designed for jitter and latency sensitive application like voice and video.
304	OEW COS 1 - 8500M	OW163	Real Time - Designed for jitter and latency sensitive application like voice and video.
305	OEW COS 1 - 9000M	OW164	Real Time - Designed for jitter and latency sensitive application like voice and video.
306	OEW COS 1 - 9500M	OW165	Real Time - Designed for jitter and latency sensitive application like voice and video.
307	OEW COS 1 - 10G	OW166	Real Time - Designed for jitter and latency sensitive application like voice and video.
308	OEW COS 2V - 0.5M	OWV01	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
309	OEW COS 2V - 1M	OWV02	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
310	OEW COS 2V - 1.5M	OWV03	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
311	OEW COS 2V - 2M	OWV04	Interactive - Designed to carry very high priority business

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			applications or may carry jitter sensitive applications like video when CoS1 is already in use.
312	OEW COS 2V - 3M	OWV05	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
313	OEW COS 2V - 4M	OWV06	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
314	OEW COS 2V - 5M	OWV07	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
315	OEW COS 2V - 6M	OWV08	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
316	OEW COS 2V - 7M	OWV09	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
317	OEW COS 2V - 8M	OWV10	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
318	OEW COS 2V - 9M	OWV11	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
319	OEW COS 2V - 10M	OWV12	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
320	OEW COS 2V - 11M	OWV13	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
321	OEW COS 2V - 12M	OWV14	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
322	OEW COS 2V - 13M	OWV15	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
323	OEW COS 2V - 14M	OWV16	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
324	OEW COS 2V - 15M	OWV17	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			video when CoS1 is already in use.
325	OEW COS 2V - 16M	OWV18	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
326	OEW COS 2V - 17M	OWV19	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
327	OEW COS 2V - 18M	OWV20	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
328	OEW COS 2V - 19M	OWV21	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
329	OEW COS 2V - 20M	OWV22	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
330	OEW COS 2V - 30M	OWV23	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
331	OEW COS 2V - 40M	OWV24	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
332	OEW COS 2V - 50M	OWV25	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
333	OEW COS 2V - 60M	OWV26	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
334	OEW COS 2V - 70M	OWV27	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
335	OEW COS 2V - 80M	OWV28	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
336	OEW COS 2V - 90M	OWV29	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
337	OEW COS 2V - 100M	OWV30	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			video when CoS1 is already in use.
338	OEW COS 2V - 150M	OWV31	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
339	OEW COS 2V - 200M	OWV32	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
340	OEW COS 2V - 250M	OWV33	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
341	OEW COS 2V - 300M	OWV34	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
342	OEW COS 2V - 350M	OWV35	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
343	OEW COS 2V - 400M	OWV36	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
344	OEW COS 2V - 450M	OWV37	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
345	OEW COS 2V - 500M	OWV38	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
346	OEW COS 2V - 550M	OWV39	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
347	OEW COS 2V - 600M	OWV40	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
348	OEW COS 2V - 650M	OWV41	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
349	OEW COS 2V - 700M	OWV42	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
350	OEW COS 2V - 750M	OWV43	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			video when CoS1 is already in use.
351	OEW COS 2V - 800M	OWV44	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
352	OEW COS 2V - 850M	OWV45	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
353	OEW COS 2V - 900M	OWV46	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
354	OEW COS 2V - 950M	OWV47	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
355	OEW COS 2V - 1G	OWV48	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
356	OEW COS 2V - 1500M	OWV49	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
357	OEW COS 2V - 2000M	OWV50	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
358	OEW COS 2V - 2500M	OWV51	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
359	OEW COS 2V - 3000M	OWV52	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
360	OEW COS 2V - 3500M	OWV53	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
361	OEW COS 2V - 4000M	OWV54	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
362	OEW COS 2V - 4500M	OWV55	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
363	OEW COS 2V - 5000M	OWV56	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			video when CoS1 is already in use.
364	OEW COS 2V - 5500M	OWV57	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
365	OEW COS 2V - 6000M	OWV58	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
366	OEW COS 2V - 6500M	OWV59	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
367	OEW COS 2V - 7000M	OWV60	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
368	OEW COS 2V - 7500M	OWV61	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
369	OEW COS 2V - 8000M	OWV62	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
370	OEW COS 2V - 8500M	OWV63	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
371	OEW COS 2V - 9000M	OWV64	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
372	OEW COS 2V - 9500M	OWV65	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
373	OEW COS 2V - 10G	OWV66	Interactive - Designed to carry very high priority business applications or may carry jitter sensitive applications like video when CoS1 is already in use.
374	OEW COS 2- 0.5M	OW201	Business Critical High - Designed to carry highest priority business applications.
375	OEW COS 2- 1M	OW202	Business Critical High - Designed to carry highest priority business applications.
376	OEW COS 2- 1.5M	OW203	Business Critical High - Designed to carry highest priority business applications.
377	OEW COS 2- 2M	OW204	Business Critical High - Designed to carry highest priority business applications.
378	OEW COS 2- 3M	OW205	Business Critical High - Designed to carry highest priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
379	OEW COS 2-4M	OW206	Business Critical High - Designed to carry highest priority business applications.
380	OEW COS 2-5M	OW207	Business Critical High - Designed to carry highest priority business applications.
381	OEW COS 2-6M	OW208	Business Critical High - Designed to carry highest priority business applications.
382	OEW COS 2-7M	OW209	Business Critical High - Designed to carry highest priority business applications.
383	OEW COS 2-8M	OW210	Business Critical High - Designed to carry highest priority business applications.
384	OEW COS 2-9M	OW211	Business Critical High - Designed to carry highest priority business applications.
385	OEW COS 2-10M	OW212	Business Critical High - Designed to carry highest priority business applications.
386	OEW COS 2-11M	OW213	Business Critical High - Designed to carry highest priority business applications.
387	OEW COS 2-12M	OW214	Business Critical High - Designed to carry highest priority business applications.
388	OEW COS 2-13M	OW215	Business Critical High - Designed to carry highest priority business applications.
389	OEW COS 2-14M	OW216	Business Critical High - Designed to carry highest priority business applications.
390	OEW COS 2-15M	OW217	Business Critical High - Designed to carry highest priority business applications.
391	OEW COS 2-16M	OW218	Business Critical High - Designed to carry highest priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
392	OEW COS 2-17M	OW219	Business Critical High - Designed to carry highest priority business applications.
393	OEW COS 2-18M	OW220	Business Critical High - Designed to carry highest priority business applications.
394	OEW COS 2-19M	OW221	Business Critical High - Designed to carry highest priority business applications.
395	OEW COS 2-20M	OW222	Business Critical High - Designed to carry highest priority business applications.
396	OEW COS 2-30M	OW223	Business Critical High - Designed to carry highest priority business applications.
397	OEW COS 2-40M	OW224	Business Critical High - Designed to carry highest priority business applications.
398	OEW COS 2-50M	OW225	Business Critical High - Designed to carry highest priority business applications.
399	OEW COS 2-60M	OW226	Business Critical High - Designed to carry highest priority business applications.
400	OEW COS 2-70M	OW227	Business Critical High - Designed to carry highest priority business applications.
401	OEW COS 2-80M	OW228	Business Critical High - Designed to carry highest priority business applications.
402	OEW COS 2-90M	OW229	Business Critical High - Designed to carry highest priority business applications.
403	OEW COS 2-100M	OW230	Business Critical High - Designed to carry highest priority business applications.
404	OEW COS 2-150M	OW231	Business Critical High - Designed to carry highest priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
405	OEW COS 2-200M	OW232	Business Critical High - Designed to carry highest priority business applications.
406	OEW COS 2-250M	OW233	Business Critical High - Designed to carry highest priority business applications.
407	OEW COS 2-300M	OW234	Business Critical High - Designed to carry highest priority business applications.
408	OEW COS 2-350M	OW235	Business Critical High - Designed to carry highest priority business applications.
409	OEW COS 2-400M	OW236	Business Critical High - Designed to carry highest priority business applications.
410	OEW COS 2-450M	OW237	Business Critical High - Designed to carry highest priority business applications.
411	OEW COS 2-500M	OW238	Business Critical High - Designed to carry highest priority business applications.
412	OEW COS 2-550M	OW239	Business Critical High - Designed to carry highest priority business applications.
413	OEW COS 2-600M	OW240	Business Critical High - Designed to carry highest priority business applications.
414	OEW COS 2-650M	OW241	Business Critical High - Designed to carry highest priority business applications.
415	OEW COS 2-700M	OW242	Business Critical High - Designed to carry highest priority business applications.
416	OEW COS 2-750M	OW243	Business Critical High - Designed to carry highest priority business applications.
417	OEW COS 2-800M	OW244	Business Critical High - Designed to carry highest priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
418	OEW COS 2-850M	OW245	Business Critical High - Designed to carry highest priority business applications.
419	OEW COS 2-900M	OW246	Business Critical High - Designed to carry highest priority business applications.
420	OEW COS 2-950M	OW247	Business Critical High - Designed to carry highest priority business applications.
421	OEW COS 2- 1G	OW248	Business Critical High - Designed to carry highest priority business applications.
422	OEW COS 2-1500M	OW249	Business Critical High - Designed to carry highest priority business applications.
423	OEW COS 2-2000M	OW250	Business Critical High - Designed to carry highest priority business applications.
424	OEW COS 2-2500M	OW251	Business Critical High - Designed to carry highest priority business applications.
425	OEW COS 2-3000M	OW252	Business Critical High - Designed to carry highest priority business applications.
426	OEW COS 2-3500M	OW253	Business Critical High - Designed to carry highest priority business applications.
427	OEW COS 2-4000M	OW254	Business Critical High - Designed to carry highest priority business applications.
428	OEW COS 2-4500M	OW255	Business Critical High - Designed to carry highest priority business applications.
429	OEW COS 2-5000M	OW256	Business Critical High - Designed to carry highest priority business applications.
430	OEW COS 2-5500M	OW257	Business Critical High - Designed to carry highest priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
431	OEW COS 2-6000M	OW258	Business Critical High - Designed to carry highest priority business applications.
432	OEW COS 2-6500M	OW259	Business Critical High - Designed to carry highest priority business applications.
433	OEW COS 2-7000M	OW260	Business Critical High - Designed to carry highest priority business applications.
434	OEW COS 2-7500M	OW261	Business Critical High - Designed to carry highest priority business applications.
435	OEW COS 2-8000M	OW262	Business Critical High - Designed to carry highest priority business applications.
436	OEW COS 2-8500M	OW263	Business Critical High - Designed to carry highest priority business applications.
437	OEW COS 2-9000M	OW264	Business Critical High - Designed to carry highest priority business applications.
438	OEW COS 2-9500M	OW265	Business Critical High - Designed to carry highest priority business applications.
439	OEW COS 2-10G	OW266	Business Critical High - Designed to carry highest priority business applications.
440	OEW COS 3 - 0.5M	OW301	Business Critical Medium - Designed to carry high priority business applications.
441	OEW COS 3 - 1M	OW302	Business Critical Medium - Designed to carry high priority business applications.
442	OEW COS 3 - 1.5M	OW303	Business Critical Medium - Designed to carry high priority business applications.
443	OEW COS 3 - 2M	OW304	Business Critical Medium - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
444	OEW COS 3 - 3M	OW305	Business Critical Medium - Designed to carry high priority business applications.
445	OEW COS 3 - 4M	OW306	Business Critical Medium - Designed to carry high priority business applications.
446	OEW COS 3 - 5M	OW307	Business Critical Medium - Designed to carry high priority business applications.
447	OEW COS 3 - 6M	OW308	Business Critical Medium - Designed to carry high priority business applications.
448	OEW COS 3 - 7M	OW309	Business Critical Medium - Designed to carry high priority business applications.
449	OEW COS 3 - 8M	OW310	Business Critical Medium - Designed to carry high priority business applications.
450	OEW COS 3 - 9M	OW311	Business Critical Medium - Designed to carry high priority business applications.
451	OEW COS 3 - 10M	OW312	Business Critical Medium - Designed to carry high priority business applications.
452	OEW COS 3 - 11M	OW313	Business Critical Medium - Designed to carry high priority business applications.
453	OEW COS 3 - 12M	OW314	Business Critical Medium - Designed to carry high priority business applications.
454	OEW COS 3 - 13M	OW315	Business Critical Medium - Designed to carry high priority business applications.
455	OEW COS 3 - 14M	OW316	Business Critical Medium - Designed to carry high priority business applications.
456	OEW COS 3 - 15M	OW317	Business Critical Medium - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
457	OEW COS 3 - 16M	OW318	Business Critical Medium - Designed to carry high priority business applications.
458	OEW COS 3 - 17M	OW319	Business Critical Medium - Designed to carry high priority business applications.
459	OEW COS 3 - 18M	OW320	Business Critical Medium - Designed to carry high priority business applications.
460	OEW COS 3 - 19M	OW321	Business Critical Medium - Designed to carry high priority business applications.
461	OEW COS 3 - 20M	OW322	Business Critical Medium - Designed to carry high priority business applications.
462	OEW COS 3 - 30M	OW323	Business Critical Medium - Designed to carry high priority business applications.
463	OEW COS 3 - 40M	OW324	Business Critical Medium - Designed to carry high priority business applications.
464	OEW COS 3 - 50M	OW325	Business Critical Medium - Designed to carry high priority business applications.
465	OEW COS 3 - 60M	OW326	Business Critical Medium - Designed to carry high priority business applications.
466	OEW COS 3 - 70M	OW327	Business Critical Medium - Designed to carry high priority business applications.
467	OEW COS 3 - 80M	OW328	Business Critical Medium - Designed to carry high priority business applications.
468	OEW COS 3 - 90M	OW329	Business Critical Medium - Designed to carry high priority business applications.
469	OEW COS 3 - 100M	OW330	Business Critical Medium - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
470	OEW COS 3 - 150M	OW331	Business Critical Medium - Designed to carry high priority business applications.
471	OEW COS 3 - 200M	OW332	Business Critical Medium - Designed to carry high priority business applications.
472	OEW COS 3 - 250M	OW333	Business Critical Medium - Designed to carry high priority business applications.
473	OEW COS 3 - 300M	OW334	Business Critical Medium - Designed to carry high priority business applications.
474	OEW COS 3 - 350M	OW335	Business Critical Medium - Designed to carry high priority business applications.
475	OEW COS 3 - 400M	OW336	Business Critical Medium - Designed to carry high priority business applications.
476	OEW COS 3 - 450M	OW337	Business Critical Medium - Designed to carry high priority business applications.
477	OEW COS 3 - 500M	OW338	Business Critical Medium - Designed to carry high priority business applications.
478	OEW COS 3 - 550M	OW339	Business Critical Medium - Designed to carry high priority business applications.
479	OEW COS 3 - 600M	OW340	Business Critical Medium - Designed to carry high priority business applications.
480	OEW COS 3 - 650M	OW341	Business Critical Medium - Designed to carry high priority business applications.
481	OEW COS 3 - 700M	OW342	Business Critical Medium - Designed to carry high priority business applications.
482	OEW COS 3 - 750M	OW343	Business Critical Medium - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
483	OEW COS 3 - 800M	OW344	Business Critical Medium - Designed to carry high priority business applications.
484	OEW COS 3 - 850M	OW345	Business Critical Medium - Designed to carry high priority business applications.
485	OEW COS 3 - 900M	OW346	Business Critical Medium - Designed to carry high priority business applications.
486	OEW COS 3 - 950M	OW347	Business Critical Medium - Designed to carry high priority business applications.
487	OEW COS 3 - 1G	OW348	Business Critical Medium - Designed to carry high priority business applications.
488	OEW COS 3 - 1500M	OW349	Business Critical Medium - Designed to carry high priority business applications.
489	OEW COS 3 - 2000M	OW350	Business Critical Medium - Designed to carry high priority business applications.
490	OEW COS 3 - 2500M	OW351	Business Critical Medium - Designed to carry high priority business applications.
491	OEW COS 3 - 3000M	OW352	Business Critical Medium - Designed to carry high priority business applications.
492	OEW COS 3 - 3500M	OW353	Business Critical Medium - Designed to carry high priority business applications.
493	OEW COS 3 - 4000M	OW354	Business Critical Medium - Designed to carry high priority business applications.
494	OEW COS 3 - 4500M	OW355	Business Critical Medium - Designed to carry high priority business applications.
495	OEW COS 3 - 5000M	OW356	Business Critical Medium - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
496	OEW COS 3 - 5500M	OW357	Business Critical Medium - Designed to carry high priority business applications.
497	OEW COS 3 - 6000M	OW358	Business Critical Medium - Designed to carry high priority business applications.
498	OEW COS 3 - 6500M	OW359	Business Critical Medium - Designed to carry high priority business applications.
499	OEW COS 3 - 7000M	OW360	Business Critical Medium - Designed to carry high priority business applications.
500	OEW COS 3 - 7500M	OW361	Business Critical Medium - Designed to carry high priority business applications.
501	OEW COS 3 - 8000M	OW362	Business Critical Medium - Designed to carry high priority business applications.
502	OEW COS 3 - 8500M	OW363	Business Critical Medium - Designed to carry high priority business applications.
503	OEW COS 3 - 9000M	OW364	Business Critical Medium - Designed to carry high priority business applications.
504	OEW COS 3 - 9500M	OW365	Business Critical Medium - Designed to carry high priority business applications.
505	OEW COS 3 - 10G	OW366	Business Critical Medium - Designed to carry high priority business applications.
506	OEW PPCoS (MMH) - 0.5M	OW501	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
507	OEW PPCoS (MMH) - 1M	OW502	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
508	OEW PPCoS (MMH) - 1.5M	OW503	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
509	OEW PPCoS (MMH) - 2M	OW504	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
510	OEW PPCoS (MMH) - 3M	OW505	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
511	OEW PPCoS (MMH) - 4M	OW506	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
512	OEW PPCoS (MMH) - 5M	OW507	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
513	OEW PPCoS (MMH) - 6M	OW508	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
514	OEW PPCoS (MMH) - 7M	OW509	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
515	OEW PPCoS (MMH) - 8M	OW510	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
516	OEW PPCoS (MMH) - 9M	OW511	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
517	OEW PPCoS (MMH) - 10M	OW512	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
518	OEW PPCoS (MMH) - 11M	OW513	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
519	OEW PPCoS (MMH) - 12M	OW514	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
520	OEW PPCoS (MMH) - 13M	OW515	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
521	OEW PPCoS (MMH) - 14M	OW516	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
522	OEW PPCoS (MMH) - 15M	OW517	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
523	OEW PPCoS (MMH) - 16M	OW518	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
524	OEW PPCoS (MMH) - 17M	OW519	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
525	OEW PPCoS (MMH) - 18M	OW520	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
526	OEW PPCoS (MMH) - 19M	OW521	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
527	OEW PPCoS (MMH) - 20M	OW522	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
528	OEW PPCoS (MMH) - 30M	OW523	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
529	OEW PPCoS (MMH) - 40M	OW524	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
530	OEW PPCoS (MMH) - 50M	OW525	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
531	OEW PPCoS (MMH) - 60M	OW526	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
532	OEW PPCoS (MMH) - 70M	OW527	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
533	OEW PPCoS (MMH) - 80M	OW528	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
534	OEW PPCoS (MMH) - 90M	OW529	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
535	OEW PPCoS (MMH) - 100M	OW530	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
536	OEW PPCoS (MMH) - 150M	OW531	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
537	OEW PPCoS (MMH) - 200M	OW532	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
538	OEW PPCoS (MMH) - 250M	OW533	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
539	OEW PPCoS (MMH) - 300M	OW534	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
540	OEW PPCoS (MMH) - 350M	OW535	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
541	OEW PPCoS (MMH) - 400M	OW536	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
542	OEW PPCoS (MMH) - 450M	OW537	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
543	OEW PPCoS (MMH) - 500M	OW538	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
544	OEW PPCoS (MMH) - 550M	OW539	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
545	OEW PPCoS (MMH) - 600M	OW540	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
546	OEW PPCoS (MMH) - 650M	OW541	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
547	OEW PPCoS (MMH) - 700M	OW542	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
548	OEW PPCoS (MMH) - 750M	OW543	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
549	OEW PPCoS (MMH) - 800M	OW544	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
550	OEW PPCoS (MMH) - 850M	OW545	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
551	OEW PPCoS (MMH) - 900M	OW546	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
552	OEW PPCoS (MMH) - 950M	OW547	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
553	OEW PPCoS (MMH) - 1G	OW548	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
554	OEW PPCoS (MMH) - 1500M	OW549	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
555	OEW PPCoS (MMH) - 2000M	OW550	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
556	OEW PPCoS (MMH) - 2500M	OW551	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
557	OEW PPCoS (MMH) - 3000M	OW552	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
558	OEW PPCoS (MMH) - 3500M	OW553	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
559	OEW PPCoS (MMH) - 4000M	OW554	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
560	OEW PPCoS (MMH) - 4500M	OW555	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
561	OEW PPCoS (MMH) - 5000M	OW556	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
562	OEW PPCoS (MMH) - 5500M	OW557	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
563	OEW PPCoS (MMH) - 6000M	OW558	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
564	OEW PPCoS (MMH) - 6500M	OW559	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
565	OEW PPCoS (MMH) - 7000M	OW560	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
566	OEW PPCoS (MMH) - 7500M	OW561	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
567	OEW PPCoS (MMH) - 8000M	OW562	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
568	OEW PPCoS (MMH) - 8500M	OW563	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
569	OEW PPCoS (MMH) - 9000M	OW564	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
570	OEW PPCoS (MMH) - 9500M	OW565	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.
571	OEW PPCoS (MMH) - 10G	OW566	PPCoS - Multimedia High - Designed to carry highest priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
572	OEW PPCoS (MMS) - 0.5M	OW601	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
573	OEW PPCoS (MMS) - 1M	OW602	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
574	OEW PPCoS (MMS) - 1.5M	OW603	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
575	OEW PPCoS (MMS) - 2M	OW604	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
576	OEW PPCoS (MMS) - 3M	OW605	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
577	OEW PPCoS (MMS) - 4M	OW606	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
578	OEW PPCoS (MMS) - 5M	OW607	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
579	OEW PPCoS (MMS) - 6M	OW608	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
580	OEW PPCoS (MMS) - 7M	OW609	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
581	OEW PPCoS (MMS) - 8M	OW610	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
582	OEW PPCoS (MMS) - 9M	OW611	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
583	OEW PPCoS (MMS) - 10M	OW612	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
584	OEW PPCoS (MMS) - 11M	OW613	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
585	OEW PPCoS (MMS) - 12M	OW614	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
586	OEW PPCoS (MMS) - 13M	OW615	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
587	OEW PPCoS (MMS) - 14M	OW616	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
588	OEW PPCoS (MMS) - 15M	OW617	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
589	OEW PPCoS (MMS) - 16M	OW618	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
590	OEW PPCoS (MMS) - 17M	OW619	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
591	OEW PPCoS (MMS) - 18M	OW620	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
592	OEW PPCoS (MMS) - 19M	OW621	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
593	OEW PPCoS (MMS) - 20M	OW622	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
594	OEW PPCoS (MMS) - 30M	OW623	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
595	OEW PPCoS (MMS) - 40M	OW624	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
596	OEW PPCoS (MMS) - 50M	OW625	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
597	OEW PPCoS (MMS) - 60M	OW626	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
598	OEW PPCoS (MMS) - 70M	OW627	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
599	OEW PPCoS (MMS) - 80M	OW628	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
600	OEW PPCoS (MMS) - 90M	OW629	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
601	OEW PPCoS (MMS) - 100M	OW630	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
602	OEW PPCoS (MMS) - 150M	OW631	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
603	OEW PPCoS (MMS) - 200M	OW632	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
604	OEW PPCoS (MMS) - 250M	OW633	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
605	OEW PPCoS (MMS) - 300M	OW634	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
606	OEW PPCoS (MMS) - 350M	OW635	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
607	OEW PPCoS (MMS) - 400M	OW636	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
608	OEW PPCoS (MMS) - 450M	OW637	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
609	OEW PPCoS (MMS) - 500M	OW638	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
610	OEW PPCoS (MMS) - 550M	OW639	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
611	OEW PPCoS (MMS) - 600M	OW640	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
612	OEW PPCoS (MMS) - 650M	OW641	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
613	OEW PPCoS (MMS) - 700M	OW642	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
614	OEW PPCoS (MMS) - 750M	OW643	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
615	OEW PPCoS (MMS) - 800M	OW644	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
616	OEW PPCoS (MMS) - 850M	OW645	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
617	OEW PPCoS (MMS) - 900M	OW646	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
618	OEW PPCoS (MMS) - 950M	OW647	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
619	OEW PPCoS (MMS) - 1G	OW648	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
620	OEW PPCoS (MMS) - 1500M	OW649	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
621	OEW PPCoS (MMS) - 2000M	OW650	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
622	OEW PPCoS (MMS) - 2500M	OW651	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
623	OEW PPCoS (MMS) - 3000M	OW652	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
624	OEW PPCoS (MMS) - 3500M	OW653	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
625	OEW PPCoS (MMS) - 4000M	OW654	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
626	OEW PPCoS (MMS) - 4500M	OW655	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
627	OEW PPCoS (MMS) - 5000M	OW656	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
628	OEW PPCoS (MMS) - 5500M	OW657	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
629	OEW PPCoS (MMS) - 6000M	OW658	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
630	OEW PPCoS (MMS) - 6500M	OW659	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
631	OEW PPCoS (MMS) - 7000M	OW660	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
632	OEW PPCoS (MMS) - 7500M	OW661	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
633	OEW PPCoS (MMS) - 8000M	OW662	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
634	OEW PPCoS (MMS) - 8500M	OW663	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
635	OEW PPCoS (MMS) - 9000M	OW664	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
636	OEW PPCoS (MMS) - 9500M	OW665	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
637	OEW PPCoS (MMS) - 10G	OW666	PPCoS - Multimedia Standard - Designed to carry high priority business applications or may carry jitter sensitive applications like video.
638	OEW PPCoS (CD) - 0.5M	OW701	PPCoS – Critical Data - Designed to carry critical business applications.
639	OEW PPCoS (CD) - 1M	OW702	PPCoS – Critical Data - Designed to carry critical business applications.
640	OEW PPCoS (CD) - 1.5M	OW703	PPCoS – Critical Data - Designed to carry critical business applications.
641	OEW PPCoS (CD) - 2M	OW704	PPCoS – Critical Data - Designed to carry critical business applications.
642	OEW PPCoS (CD) - 3M	OW705	PPCoS – Critical Data - Designed to carry critical business applications.
643	OEW PPCoS (CD) - 4M	OW706	PPCoS – Critical Data - Designed to carry critical business applications.
644	OEW PPCoS (CD) - 5M	OW707	PPCoS – Critical Data - Designed to carry critical business applications.
645	OEW PPCoS (CD) - 6M	OW708	PPCoS – Critical Data - Designed to carry critical business applications.
646	OEW PPCoS (CD) - 7M	OW709	PPCoS – Critical Data - Designed to carry critical business applications.
647	OEW PPCoS (CD) - 8M	OW710	PPCoS – Critical Data - Designed to carry critical business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
648	OEW PPCoS (CD) - 9M	OW711	PPCoS – Critical Data - Designed to carry critical business applications.
649	OEW PPCoS (CD) - 10M	OW712	PPCoS – Critical Data - Designed to carry critical business applications.
650	OEW PPCoS (CD) - 11M	OW713	PPCoS – Critical Data - Designed to carry critical business applications.
651	OEW PPCoS (CD) - 12M	OW714	PPCoS – Critical Data - Designed to carry critical business applications.
652	OEW PPCoS (CD) - 13M	OW715	PPCoS – Critical Data - Designed to carry critical business applications.
653	OEW PPCoS (CD) - 14M	OW716	PPCoS – Critical Data - Designed to carry critical business applications.
654	OEW PPCoS (CD) - 15M	OW717	PPCoS – Critical Data - Designed to carry critical business applications.
655	OEW PPCoS (CD) - 16M	OW718	PPCoS – Critical Data - Designed to carry critical business applications.
656	OEW PPCoS (CD) - 17M	OW719	PPCoS – Critical Data - Designed to carry critical business applications.
657	OEW PPCoS (CD) - 18M	OW720	PPCoS – Critical Data - Designed to carry critical business applications.
658	OEW PPCoS (CD) - 19M	OW721	PPCoS – Critical Data - Designed to carry critical business applications.
659	OEW PPCoS (CD) - 20M	OW722	PPCoS – Critical Data - Designed to carry critical business applications.
660	OEW PPCoS (CD) - 30M	OW723	PPCoS – Critical Data - Designed to carry critical business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
661	OEW PPCoS (CD) - 40M	OW724	PPCoS – Critical Data - Designed to carry critical business applications.
662	OEW PPCoS (CD) - 50M	OW725	PPCoS – Critical Data - Designed to carry critical business applications.
663	OEW PPCoS (CD) - 60M	OW726	PPCoS – Critical Data - Designed to carry critical business applications.
664	OEW PPCoS (CD) - 70M	OW727	PPCoS – Critical Data - Designed to carry critical business applications.
665	OEW PPCoS (CD) - 80M	OW728	PPCoS – Critical Data - Designed to carry critical business applications.
666	OEW PPCoS (CD) - 90M	OW729	PPCoS – Critical Data - Designed to carry critical business applications.
667	OEW PPCoS (CD) - 100M	OW730	PPCoS – Critical Data - Designed to carry critical business applications.
668	OEW PPCoS (CD) - 150M	OW731	PPCoS – Critical Data - Designed to carry critical business applications.
669	OEW PPCoS (CD) - 200M	OW732	PPCoS – Critical Data - Designed to carry critical business applications.
670	OEW PPCoS (CD) - 250M	OW733	PPCoS – Critical Data - Designed to carry critical business applications.
671	OEW PPCoS (CD) - 300M	OW734	PPCoS – Critical Data - Designed to carry critical business applications.
672	OEW PPCoS (CD) - 350M	OW735	PPCoS – Critical Data - Designed to carry critical business applications.
673	OEW PPCoS (CD) - 400M	OW736	PPCoS – Critical Data - Designed to carry critical business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
674	OEW PPCoS (CD) - 450M	OW737	PPCoS – Critical Data - Designed to carry critical business applications.
675	OEW PPCoS (CD) - 500M	OW738	PPCoS – Critical Data - Designed to carry critical business applications.
676	OEW PPCoS (CD) - 550M	OW739	PPCoS – Critical Data - Designed to carry critical business applications.
677	OEW PPCoS (CD) - 600M	OW740	PPCoS – Critical Data - Designed to carry critical business applications.
678	OEW PPCoS (CD) - 650M	OW741	PPCoS – Critical Data - Designed to carry critical business applications.
679	OEW PPCoS (CD) - 700M	OW742	PPCoS – Critical Data - Designed to carry critical business applications.
680	OEW PPCoS (CD) - 750M	OW743	PPCoS – Critical Data - Designed to carry critical business applications.
681	OEW PPCoS (CD) - 800M	OW744	PPCoS – Critical Data - Designed to carry critical business applications.
682	OEW PPCoS (CD) - 850M	OW745	PPCoS – Critical Data - Designed to carry critical business applications.
683	OEW PPCoS (CD) - 900M	OW746	PPCoS – Critical Data - Designed to carry critical business applications.
684	OEW PPCoS (CD) - 950M	OW747	PPCoS – Critical Data - Designed to carry critical business applications.
685	OEW PPCoS (CD) - 1G	OW748	PPCoS – Critical Data - Designed to carry critical business applications.
686	OEW PPCoS (CD) - 1500M	OW749	PPCoS – Critical Data - Designed to carry critical business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
687	OEW PPCoS (CD) - 2000M	OW750	PPCoS – Critical Data - Designed to carry critical business applications.
688	OEW PPCoS (CD) - 2500M	OW751	PPCoS – Critical Data - Designed to carry critical business applications.
689	OEW PPCoS (CD) - 3000M	OW752	PPCoS – Critical Data - Designed to carry critical business applications.
690	OEW PPCoS (CD) - 3500M	OW753	PPCoS – Critical Data - Designed to carry critical business applications.
691	OEW PPCoS (CD) - 4000M	OW754	PPCoS – Critical Data - Designed to carry critical business applications.
692	OEW PPCoS (CD) - 4500M	OW755	PPCoS – Critical Data - Designed to carry critical business applications.
693	OEW PPCoS (CD) - 5000M	OW756	PPCoS – Critical Data - Designed to carry critical business applications.
694	OEW PPCoS (CD) - 5500M	OW757	PPCoS – Critical Data - Designed to carry critical business applications.
695	OEW PPCoS (CD) - 6000M	OW758	PPCoS – Critical Data - Designed to carry critical business applications.
696	OEW PPCoS (CD) - 6500M	OW759	PPCoS – Critical Data - Designed to carry critical business applications.
697	OEW PPCoS (CD) - 7000M	OW760	PPCoS – Critical Data - Designed to carry critical business applications.
698	OEW PPCoS (CD) - 7500M	OW761	PPCoS – Critical Data - Designed to carry critical business applications.
699	OEW PPCoS (CD) - 8000M	OW762	PPCoS – Critical Data - Designed to carry critical business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
700	OEW PPCoS (CD) - 8500M	OW763	PPCoS – Critical Data - Designed to carry critical business applications.
701	OEW PPCoS (CD) - 9000M	OW764	PPCoS – Critical Data - Designed to carry critical business applications.
702	OEW PPCoS (CD) - 9500M	OW765	PPCoS – Critical Data - Designed to carry critical business applications.
703	OEW PPCoS (CD) - 10G	OW766	PPCoS – Critical Data - Designed to carry critical business applications.
704	OEW PPCoS (BD) - 0.5M	OW801	PPCoS – Business Data - Designed to carry high priority business applications.
705	OEW PPCoS (BD) - 1M	OW802	PPCoS – Business Data - Designed to carry high priority business applications.
706	OEW PPCoS (BD) - 1.5M	OW803	PPCoS – Business Data - Designed to carry high priority business applications.
707	OEW PPCoS (BD) - 2M	OW804	PPCoS – Business Data - Designed to carry high priority business applications.
708	OEW PPCoS (BD) - 3M	OW805	PPCoS – Business Data - Designed to carry high priority business applications.
709	OEW PPCoS (BD) - 4M	OW806	PPCoS – Business Data - Designed to carry high priority business applications.
710	OEW PPCoS (BD) - 5M	OW807	PPCoS – Business Data - Designed to carry high priority business applications.
711	OEW PPCoS (BD) - 6M	OW808	PPCoS – Business Data - Designed to carry high priority business applications.
712	OEW PPCoS (BD) - 7M	OW809	PPCoS – Business Data - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
713	OEW PPCoS (BD) - 8M	OW810	PPCoS – Business Data - Designed to carry high priority business applications.
714	OEW PPCoS (BD) - 9M	OW811	PPCoS – Business Data - Designed to carry high priority business applications.
715	OEW PPCoS (BD) - 10M	OW812	PPCoS – Business Data - Designed to carry high priority business applications.
716	OEW PPCoS (BD) - 11M	OW813	PPCoS – Business Data - Designed to carry high priority business applications.
717	OEW PPCoS (BD) - 12M	OW814	PPCoS – Business Data - Designed to carry high priority business applications.
718	OEW PPCoS (BD) - 13M	OW815	PPCoS – Business Data - Designed to carry high priority business applications.
719	OEW PPCoS (BD) - 14M	OW816	PPCoS – Business Data - Designed to carry high priority business applications.
720	OEW PPCoS (BD) - 15M	OW817	PPCoS – Business Data - Designed to carry high priority business applications.
721	OEW PPCoS (BD) - 16M	OW818	PPCoS – Business Data - Designed to carry high priority business applications.
722	OEW PPCoS (BD) - 17M	OW819	PPCoS – Business Data - Designed to carry high priority business applications.
723	OEW PPCoS (BD) - 18M	OW820	PPCoS – Business Data - Designed to carry high priority business applications.
724	OEW PPCoS (BD) - 19M	OW821	PPCoS – Business Data - Designed to carry high priority business applications.
725	OEW PPCoS (BD) - 20M	OW822	PPCoS – Business Data - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
726	OEW PPCoS (BD) - 30M	OW823	PPCoS – Business Data - Designed to carry high priority business applications.
727	OEW PPCoS (BD) - 40M	OW824	PPCoS – Business Data - Designed to carry high priority business applications.
728	OEW PPCoS (BD) - 50M	OW825	PPCoS – Business Data - Designed to carry high priority business applications.
729	OEW PPCoS (BD) - 60M	OW826	PPCoS – Business Data - Designed to carry high priority business applications.
730	OEW PPCoS (BD) - 70M	OW827	PPCoS – Business Data - Designed to carry high priority business applications.
731	OEW PPCoS (BD) - 80M	OW828	PPCoS – Business Data - Designed to carry high priority business applications.
732	OEW PPCoS (BD) - 90M	OW829	PPCoS – Business Data - Designed to carry high priority business applications.
733	OEW PPCoS (BD) - 100M	OW830	PPCoS – Business Data - Designed to carry high priority business applications.
734	OEW PPCoS (BD) - 150M	OW831	PPCoS – Business Data - Designed to carry high priority business applications.
735	OEW PPCoS (BD) - 200M	OW832	PPCoS – Business Data - Designed to carry high priority business applications.
736	OEW PPCoS (BD) - 250M	OW833	PPCoS – Business Data - Designed to carry high priority business applications.
737	OEW PPCoS (BD) - 300M	OW834	PPCoS – Business Data - Designed to carry high priority business applications.
738	OEW PPCoS (BD) - 350M	OW835	PPCoS – Business Data - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
739	OEW PPCoS (BD) - 400M	OW836	PPCoS – Business Data - Designed to carry high priority business applications.
740	OEW PPCoS (BD) - 450M	OW837	PPCoS – Business Data - Designed to carry high priority business applications.
741	OEW PPCoS (BD) - 500M	OW838	PPCoS – Business Data - Designed to carry high priority business applications.
742	OEW PPCoS (BD) - 550M	OW839	PPCoS – Business Data - Designed to carry high priority business applications.
743	OEW PPCoS (BD) - 600M	OW840	PPCoS – Business Data - Designed to carry high priority business applications.
744	OEW PPCoS (BD) - 650M	OW841	PPCoS – Business Data - Designed to carry high priority business applications.
745	OEW PPCoS (BD) - 700M	OW842	PPCoS – Business Data - Designed to carry high priority business applications.
746	OEW PPCoS (BD) - 750M	OW843	PPCoS – Business Data - Designed to carry high priority business applications.
747	OEW PPCoS (BD) - 800M	OW844	PPCoS – Business Data - Designed to carry high priority business applications.
748	OEW PPCoS (BD) - 850M	OW845	PPCoS – Business Data - Designed to carry high priority business applications.
749	OEW PPCoS (BD) - 900M	OW846	PPCoS – Business Data - Designed to carry high priority business applications.
750	OEW PPCoS (BD) - 950M	OW847	PPCoS – Business Data - Designed to carry high priority business applications.
751	OEW PPCoS (BD) - 1G	OW848	PPCoS – Business Data - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
752	OEW PPCoS (BD) - 1500M	OW849	PPCoS – Business Data - Designed to carry high priority business applications.
753	OEW PPCoS (BD) - 2000M	OW850	PPCoS – Business Data - Designed to carry high priority business applications.
754	OEW PPCoS (BD) - 2500M	OW851	PPCoS – Business Data - Designed to carry high priority business applications.
755	OEW PPCoS (BD) - 3000M	OW852	PPCoS – Business Data - Designed to carry high priority business applications.
756	OEW PPCoS (BD) - 3500M	OW853	PPCoS – Business Data - Designed to carry high priority business applications.
757	OEW PPCoS (BD) - 4000M	OW854	PPCoS – Business Data - Designed to carry high priority business applications.
758	OEW PPCoS (BD) - 4500M	OW855	PPCoS – Business Data - Designed to carry high priority business applications.
759	OEW PPCoS (BD) - 5000M	OW856	PPCoS – Business Data - Designed to carry high priority business applications.
760	OEW PPCoS (BD) - 5500M	OW857	PPCoS – Business Data - Designed to carry high priority business applications.
761	OEW PPCoS (BD) - 6000M	OW858	PPCoS – Business Data - Designed to carry high priority business applications.
762	OEW PPCoS (BD) - 6500M	OW859	PPCoS – Business Data - Designed to carry high priority business applications.
763	OEW PPCoS (BD) - 7000M	OW860	PPCoS – Business Data - Designed to carry high priority business applications.
764	OEW PPCoS (BD) - 7500M	OW861	PPCoS – Business Data - Designed to carry high priority business applications.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
765	OEW PPCoS (BD) - 8000M	OW862	PPCoS – Business Data - Designed to carry high priority business applications.
766	OEW PPCoS (BD) - 8500M	OW863	PPCoS – Business Data - Designed to carry high priority business applications.
767	OEW PPCoS (BD) - 9000M	OW864	PPCoS – Business Data - Designed to carry high priority business applications.
768	OEW PPCoS (BD) - 9500M	OW865	PPCoS – Business Data - Designed to carry high priority business applications.
769	OEW PPCoS (BD) - 10G	OW866	PPCoS – Business Data - Designed to carry high priority business applications.
770	OPT-E-WAN Bandwidth Set-Up	80436	OPTWAN Port Bandwidth Set-Up
771	OEW CoS Service Establishment	80440	Class of Service Establishment
772	OEW Additional MAC Addresses, EVCs, VLANs	80443	Moves Adds and Changes for IP Addresses, Ethernet Virtual Channels and Virtual Local Area Networks
773	OEW Initial Service Order Change Charge	80444	Changes made to initial Service Orders
774	OEW Service Order Cancellation	80445	Cancellation by customer of a Service Order before the ordered circuit has been installed.
775	OEW Miscellaneous Change Charge	80446	Changes to Port or service configuration
776	OPT-E-WAN Site Termination Charge	80447	OPT-E-WAN Site Termination Charge will be applied when

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
801	EPLS-WAN 100Gbps 501- 1000 Miles	EPLS11	EPLS-WAN 100Gbps 501-1000 Miles. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
802	EPLS-WAN 100Gbps 1001- 1500 Miles	EPLS12	EPLS-WAN 100Gbps 1001-1500 Miles. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
803	EPLS-WAN 100Gbps 1501- 2000 Miles	EPLS13	EPLS-WAN 100Gbps 1501-2000 Miles. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
804	EPLS-WAN 100Gbps 2001- 2500 Miles	EPLS14	EPLS-WAN 100Gbps 2001-2500 Miles. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
805	EPLS-WAN 100Gbps 2500+ Miles	EPLS15	EPLS-WAN 100Gbps 2500+ Miles. Available in locations where AT&T is able to provide the necessary facilities. Access is subject to availability of facilities.
806	AT&T MRS Implementation 1-24 sites	MRSIM1	AT&T MRS Implementation Service 1-24 sites. Implementation Non-Recurring Charges per Site (for up to 25 Sites per week during Standard Business Hours; Monday - Friday, 8:00 am - 5:00 p.m., local time. Can only be used in conjunction with MRS services in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
807	AT&T MRS Implementation 25-99 sites	MRSIM2	AT&T MRS Implementation Service 25-99 sites. Implementation Non-Recurring Charges per Site (for up to 25 Sites per week during Standard Business Hours; Monday - Friday, 8:00 am - 5:00 p.m., local time. Can only be used in conjunction with MRS services in this Category.
808	AT&T MRS Implementation 100-399 sites	MRSIM3	AT&T MRS Implementation Service 100-399 sites. Implementation Non-Recurring Charges per Site (for up to 25 Sites per week during Standard Business Hours; Monday - Friday, 8:00 am - 5:00 p.m., local time. Can only be used in conjunction with MRS services in this Category.
809	AT&T MRS Implementation 400-999 sites	MRSIM4	AT&T MRS Implementation Service 400-999 sites. Implementation Non-Recurring Charges per Site (for up to 25 Sites per week during Standard Business Hours; Monday - Friday, 8:00 am - 5:00 p.m., local time. Can only be used in conjunction with MRS services in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
810	AT&T MRS Implementation 1000+ sites	MRSIM5	AT&T MRS Implementation Service 1000+ sites. Implementation Non-Recurring Charges per Site (for up to 25 Sites per week during Standard Business Hours; Monday - Friday, 8:00 am - 5:00 p.m., local time. Can only be used in conjunction with MRS services in this Category.
811	MRS Equip Install - Low	MRSISLC	AT&T MRS Equipment Installation-Low Complexity routers. Can only be used in conjunction with MRS services in this Category.
812	AT&T MRS Equip Install- Medium	MRSISMC	AT&T MRS Equipment Installation-Medium Complexity routers. Can only be used in conjunction with MRS services in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
823	Add/Delete Router Boards – Low	13127L	<p>Add/Delete Router Boards – Low Complexity Router. 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</p> <p>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 new order. All rates for Lifecycle activity assume that work will be performed and completed during Standard Business Hours. In the event work is performed during non-Standard Business Hours, the applicable hourly rate will apply in addition to the lifecycle charges. Can only be used in conjunction with MRS services in this Category.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
824	Add/Delete Router Boards – Medium	13127M	<p>Add/Delete Router Boards – Medium Complexity Router. 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</p> <p>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 new order. All rates for Lifecycle activity assume that work will be performed and completed during Standard Business Hours. In the event work is performed during non-Standard Business Hours, the applicable hourly rate will apply in addition to the lifecycle charges. Can only be used in conjunction with MRS services in this Category.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
825	Add/Delete Router Boards – High	13127H	<p>Add/Delete Router Boards – High Complexity Router. 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</p> <p>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 new order. All rates for Lifecycle activity assume that work will be performed and completed during Standard Business Hours. In the event work is performed during non-Standard Business Hours, the applicable hourly rate will apply in addition to the lifecycle charges. Can only be used in conjunction with MRS services in this Category.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
826	MRS Configuration Changes-Simple	14158S	AT&T Managed Router Solution Router Configuration Changes - Simple. Configuration changes will be performed as requested by Customer and will be billed at the rates set forth in the Pricing Schedule, in the table entitled "Life Cycle Management Changes." Can only be used in conjunction with MRS services in this Category.
827	MRS Configuration Changes-Complex	14158C	AT&T Managed Router Solution Router Configuration Changes - Complex. Configuration changes will be performed as requested by Customer and will be billed at the rates set forth in the Pricing Schedule, in the table entitled "Life Cycle Management Changes." Can only be used in conjunction with MRS services in this Category.
828	Site Insufficiently Prepared/ Vendor Turn-Away	14570	Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away. Can only be used in conjunction with MRS services in this Category.
829	Cancellation Less than Five Bus Days	13109A	Cancellation to Receive On-Site Services with Less than Five Business Days notice to AT&T. Can only be used in conjunction with MRS services in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
846	Security IOS Svc for Cisco 39XX	MRU06	Security IOS Service for Cisco 39XX Series managed router feature upgrade Can only be used in conjunction with MRS services in this Category.
847	2 - Port SPA Svc Cisco ASR 1000 Module	MRU10	Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade Can only be used in conjunction with MRS services in this Category.
848	4 - Port SPA Svc Cisco ASR 1000	MRU11	100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade Can only be used in conjunction with MRS services in this Category.
849	LX/LH SFP Svc	MRU12	GE SFP, LC connector LX/LH transceiver Service managed router feature upgrade Can only be used in conjunction with MRS services in this Category.
850	SX SFP Svc	MRU13	GE SFP, LC connector SX transceiver Service managed router feature upgrade Can only be used in conjunction with MRS services in this Category.
851	1000 Base-T SFP Svc	MRU14	1000 BASE-T SFP Service managed router feature upgrade Can only be used in conjunction with MRS services in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
897	ASEoD 2Mb CIR Non-Critical High (BSA)	R6E2XON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
898	ASEoD 4Mb CIR Non-Critical High (BSA)	R6E4XON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
899	ASEoD 5Mb CIR Non-Critical High (BSA)	R6EAXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
900	ASEoD 8Mb CIR Non-Critical High (BSA)	R6E8XON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
901	ASEoD 10Mb CIR Non-Critical High (BSA)	R6EBXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
902	ASEoD 20Mb CIR Non-Critical High (BSA)	R6EDXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
903	ASEoD 50Mb CIR Non-Critical High (BSA)	R6EHXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
904	ASEoD 100Mb CIR Non-Critical High (BSA)	R6ELXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
905	ASEoD 150Mb CIR Non-Critical High (BSA)	R6ENXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
906	ASEoD 250Mb CIR Non-Critical High (BSA)	R6EQXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
907	ASEoD 400Mb CIR Non-Critical High (BSA)	R6ESXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
908	ASEoD 500Mb CIR Non-Critical High (BSA)	R6ETXON	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
916	ASEoD 9.5 Gbps CIR Non-Critical High (BSA)	R61RXON	ASEoD 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). Must be combined with an ASEoD 10 Gbps Port. Cannot be used with ASEoD 100 Gbps Port.
917	ASEoD 10 Gbps CIR Non-Critical High (BSA)	R61SXON	ASEoD 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). Must be combined with an ASEoD 10 Gbps Port. Cannot be used with ASEoD 100 Gbps Port.
918	ASEoD 15 Gbps CIR Non-Critical High (BSA)	R612XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
919	ASEoD 20 Gbps CIR Non-Critical High (BSA)	R613XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
920	ASEoD 25 Gbps CIR Non-Critical High (BSA)	R614XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
921	ASEoD 30 Gbps CIR Non-Critical High (BSA)	R615XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
922	ASEoD 35 Gbps CIR Non-Critical High (BSA)	R616XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
923	ASEoD 40 Gbps CIR Non-Critical High (BSA)	R617XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
924	ASEoD 45 Gbps CIR Non-Critical High (BSA)	R618XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
925	ASEoD 50 Gbps CIR Non-Critical High (BSA)	R619XON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
926	ASEoD 60 Gbps CIR Non-Critical High (BSA)	R61TXON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
927	ASEoD 70 Gbps CIR Non-Critical High (BSA)	R61UXON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
928	ASEoD 80 Gbps CIR Non-Critical High (BSA)	R61VXON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
929	ASEoD 90 Gbps CIR Non-Critical High (BSA)	R61WXON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
930	ASEoD 100 Gbps CIR Non-Critical High (BSA)	R61XXON	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
931	ASEoD 2Mb CIR Business Critical Medium (BSA)	R6E2XOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
932	ASEoD 4Mb CIR Business Critical Medium (BSA)	R6E4XOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
933	ASEoD 5Mb CIR Business Critical Medium (BSA)	R6EAXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
934	ASEoD 8Mb CIR Business Critical Medium (BSA)	R6E8XOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
935	ASEoD 10Mb CIR Business Critical Medium (BSA)	R6EBXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
936	ASEoD 20Mb CIR Business Critical Medium (BSA)	R6EDXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
937	ASEoD 50Mb CIR Business Critical Medium (BSA)	R6EHXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
938	ASEoD 100Mb CIR Business Critical Medium (BSA)	R6ELXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
939	ASEoD 150Mb CIR Business Critical Medium (BSA)	R6ENXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
940	ASEoD 250Mb CIR Business Critical Medium (BSA)	R6EQXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
941	ASEoD 400Mb CIR Business Critical Medium (BSA)	R6ESXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
942	ASEoD 500Mb CIR Business Critical Medium (BSA)	R6ETXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
943	ASEoD 600Mb CIR Business Critical Medium (BSA)	R6EUXOM	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
958	ASEoD 45 Gbps CIR Business Critical Medium (BSA)	R618XOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
959	ASEoD 50 Gbps CIR Business Critical Medium (BSA)	R619XOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
960	ASEoD 60 Gbps CIR Business Critical Medium (BSA)	R61TXOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
961	ASEoD 70 Gbps CIR Business Critical Medium (BSA)	R61UXOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
962	ASEoD 80 Gbps CIR Business Critical Medium (BSA)	R61VXOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
963	ASEoD 90 Gbps CIR Business Critical Medium (BSA)	R61WXOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
964	ASEoD 100 Gbps CIR Business Critical Medium (BSA)	R61XXOM	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
965	ASEoD 2Mb CIR Business Critical High (BSA)	R6E2XOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
966	ASEoD 4Mb CIR Business Critical High (BSA)	R6E4XOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
967	ASEoD 5Mb CIR Business Critical High (BSA)	R6EAXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
968	ASEoD 8Mb CIR Business Critical High (BSA)	R6E8XOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
969	ASEoD 10Mb CIR Business Critical High (BSA)	R6EBXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
970	ASEoD 20Mb CIR Business Critical High (BSA)	R6EDXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
971	ASEoD 50Mb CIR Business Critical High (BSA)	R6EHXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
972	ASEoD 100Mb CIR Business Critical High (BSA)	R6ELXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
973	ASEoD 150Mb CIR Business Critical High (BSA)	R6ENXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
974	ASEoD 250Mb CIR Business Critical High (BSA)	R6EQXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
975	ASEoD 400Mb CIR Business Critical High (BSA)	R6ESXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
976	ASEoD 500Mb CIR Business Critical High (BSA)	R6ETXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
977	ASEoD 600Mb CIR Business Critical High (BSA)	R6EUXOH	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
985	ASEoD 10 Gbps CIR Business Critical High (BSA)	R61SXOH	ASEoD 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). Must be combined with an ASEoD 10 Gbps Port. Cannot be used with ASEoD 100 Gbps Port.
986	ASEoD 15 Gbps CIR Business Critical High (BSA)	R612XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
987	ASEoD 20 Gbps CIR Business Critical High (BSA)	R613XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
988	ASEoD 25 Gbps CIR Business Critical High (BSA)	R614XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
989	ASEoD 30 Gbps CIR Business Critical High (BSA)	R615XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
990	ASEoD 35 Gbps CIR Business Critical High (BSA)	R616XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
991	ASEoD 40 Gbps CIR Business Critical High (BSA)	R617XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
992	ASEoD 45 Gbps CIR Business Critical High (BSA)	R618XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
993	ASEoD 50 Gbps CIR Business Critical High (BSA)	R619XOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
994	ASEoD 60 Gbps CIR Business Critical High (BSA)	R61TXOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
995	ASEoD 70 Gbps CIR Business Critical High (BSA)	R61UXOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
996	ASEoD 80 Gbps CIR Business Critical High (BSA)	R61VXOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
997	ASEoD 90 Gbps CIR Business Critical High (BSA)	R61WXOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
998	ASEoD 100 Gbps CIR Business Critical High (BSA)	R61XXOH	ASEoD 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). Must be combined with an ASEoD 100 Gbps Port.
999	ASEoD 2Mb CIR Interactive (BSA)	R6E2XOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1000	ASEoD 4Mb CIR Interactive (BSA)	R6E4XOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1001	ASEoD 5Mb CIR Interactive (BSA)	R6EAXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1002	ASEoD 8Mb CIR Interactive (BSA)	R6E8XOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1003	ASEoD 10Mb CIR Interactive (BSA)	R6EBXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1004	ASEoD 20Mb CIR Interactive (BSA)	R6EDXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1005	ASEoD 50Mb CIR Interactive (BSA)	R6EHXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1006	ASEoD 100Mb CIR Interactive (BSA)	R6ELXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1007	ASEoD 150Mb CIR Interactive (BSA)	R6ENXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.
1008	ASEoD 250Mb CIR Interactive (BSA)	R6EQXOI	ASEoD 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). Must be combined with an ASEoD Port of 1Gbps or lower.

Table 23.2.1.7.a – Bidder's MAE Services Service Locations

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
1	Agoura Hills	Yes	Yes	Yes	Yes	Yes	Yes
2	Alameda	Yes	Yes	Yes	Yes	Yes	Yes
3	Albany	Yes	Yes	Yes	Yes	Yes	Yes
4	Alhambra	Yes	Yes	Yes	Yes	Yes	Yes
5	Aliso Viejo	Yes	Yes	Yes	Yes	Yes	Yes
6	American Canyon	Yes	Yes	Yes	Yes	Yes	Yes
7	Anaheim	Yes	Yes	Yes	Yes	Yes	Yes
8	Anderson	Yes	Yes	Yes	Yes	Yes	Yes
9	Antioch	Yes	Yes	Yes	Yes	Yes	Yes
10	Arcadia	Yes	Yes	Yes	Yes	Yes	Yes
11	Arcata	Yes	Yes	Yes	Yes	Yes	Yes
12	Arroyo Grande	Yes	Yes	Yes	Yes	Yes	Yes
13	Arvin	Yes	Yes	Yes	Yes	Yes	Yes
14	Atascadero	Yes	Yes	Yes	Yes	Yes	Yes
15	Atherton	Yes	Yes	Yes	Yes	Yes	Yes
16	Atwater	Yes	Yes	Yes	Yes	Yes	Yes
17	Auburn	Yes	Yes	Yes	Yes	Yes	Yes
18	Avalon	Yes	Yes	Yes	Yes	Yes	Yes
19	Avenal	Yes	Yes	Yes	Yes	Yes	Yes
20	Bakersfield	Yes	Yes	Yes	Yes	Yes	Yes
21	Baldwin Park	Yes	Yes	Yes	Yes	Yes	Yes
22	Bell	Yes	Yes	Yes	Yes	Yes	Yes
23	Bellflower	Yes	Yes	Yes	Yes	Yes	Yes
24	Belmont	Yes	Yes	Yes	Yes	Yes	Yes
25	Belvedere	Yes	Yes	Yes	Yes	Yes	Yes
26	Benicia	Yes	Yes	Yes	Yes	Yes	Yes
27	Berkeley	Yes	Yes	Yes	Yes	Yes	Yes
28	Beverly Hills	Yes	Yes	Yes	Yes	Yes	Yes
29	Biggs	Yes	Yes	Yes	Yes	Yes	Yes
30	Blue Lake	Yes	Yes	Yes	Yes	Yes	Yes
31	Brawley	Yes	Yes	Yes	Yes	Yes	Yes
32	Brea	Yes	Yes	Yes	Yes	Yes	Yes

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
288	San Gabriel	Yes	Yes	Yes	Yes	Yes	Yes
289	San Jose	Yes	Yes	Yes	Yes	Yes	Yes
290	San Juan Bautista	Yes	Yes	Yes	Yes	Yes	Yes
291	San Juan Capistrano	Yes	Yes	Yes	Yes	Yes	Yes
292	San Leandro	Yes	Yes	Yes	Yes	Yes	Yes
293	San Luis Obispo	Yes	Yes	Yes	Yes	Yes	Yes
294	San Marcos	Yes	Yes	Yes	Yes	Yes	Yes
295	San Marino	Yes	Yes	Yes	Yes	Yes	Yes
296	San Mateo	Yes	Yes	Yes	Yes	Yes	Yes
297	San Pablo	Yes	Yes	Yes	Yes	Yes	Yes
298	San Rafael	Yes	Yes	Yes	Yes	Yes	Yes
299	San Ramon	Yes	Yes	Yes	Yes	Yes	Yes
300	Sand City	Yes	Yes	Yes	Yes	Yes	Yes
301	Santa Ana	Yes	Yes	Yes	Yes	Yes	Yes
302	Santa Clara	Yes	Yes	Yes	Yes	Yes	Yes
303	Santa Clarita	Yes	Yes	Yes	Yes	Yes	Yes
304	Santa Cruz	Yes	Yes	Yes	Yes	Yes	Yes
305	Santa Fe Springs	Yes	Yes	Yes	Yes	Yes	Yes
306	Santa Maria	Yes	Yes	Yes	Yes	Yes	Yes
307	Santa Monica	Yes	Yes	Yes	Yes	Yes	Yes
308	Santa Rosa	Yes	Yes	Yes	Yes	Yes	Yes
309	Santee	Yes	Yes	Yes	Yes	Yes	Yes
310	Saratoga	Yes	Yes	Yes	Yes	Yes	Yes
311	Sausalito	Yes	Yes	Yes	Yes	Yes	Yes
312	Scotts Valley	Yes	Yes	Yes	Yes	Yes	Yes
313	Seaside	Yes	Yes	Yes	Yes	Yes	Yes
314	Sebastopol	Yes	Yes	Yes	Yes	Yes	Yes
315	Selma	Yes	Yes	Yes	Yes	Yes	Yes
316	Shafter	Yes	Yes	Yes	Yes	Yes	Yes
317	Shasta Lake	Yes	Yes	Yes	Yes	Yes	Yes
318	Simi Valley	Yes	Yes	Yes	Yes	Yes	Yes
319	Solana Beach	Yes	Yes	Yes	Yes	Yes	Yes

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
320	Soledad	Yes	Yes	Yes	Yes	Yes	Yes
321	Sonoma	Yes	Yes	Yes	Yes	Yes	Yes
322	Sonora	Yes	Yes	Yes	Yes	Yes	Yes
323	South El Monte	Yes	Yes	Yes	Yes	Yes	Yes
324	South Gate	Yes	Yes	Yes	Yes	Yes	Yes
325	South Lake Tahoe	Yes	Yes	Yes	Yes	Yes	Yes
326	South Pasadena	Yes	Yes	Yes	Yes	Yes	Yes
327	South San Francisco	Yes	Yes	Yes	Yes	Yes	Yes
328	Stanton	Yes	Yes	Yes	Yes	Yes	Yes
329	Stockton	Yes	Yes	Yes	Yes	Yes	Yes
330	Suisun City	Yes	Yes	Yes	Yes	Yes	Yes
331	Sunnyvale	Yes	Yes	Yes	Yes	Yes	Yes
332	Sutter Creek	Yes	Yes	Yes	Yes	Yes	Yes
333	Tehachapi	Yes	Yes	Yes	Yes	Yes	Yes
334	Tehama	Yes	Yes	Yes	Yes	Yes	Yes
335	Temple City	Yes	Yes	Yes	Yes	Yes	Yes
336	Thousand Oaks	Yes	Yes	Yes	Yes	Yes	Yes
337	Tiburon	Yes	Yes	Yes	Yes	Yes	Yes
338	Torrance	Yes	Yes	Yes	Yes	Yes	Yes
339	Tracy	Yes	Yes	Yes	Yes	Yes	Yes
340	Trinidad	Yes	Yes	Yes	Yes	Yes	Yes
341	Truckee	Yes	Yes	Yes	Yes	Yes	Yes
342	Tulare	Yes	Yes	Yes	Yes	Yes	Yes
343	Turlock	Yes	Yes	Yes	Yes	Yes	Yes
344	Tustin	Yes	Yes	Yes	Yes	Yes	Yes
345	Ukiah	Yes	Yes	Yes	Yes	Yes	Yes
346	Union City	Yes	Yes	Yes	Yes	Yes	Yes
347	Upland	Yes	Yes	Yes	Yes	Yes	Yes
348	Vacaville	Yes	Yes	Yes	Yes	Yes	Yes
349	Vallejo	Yes	Yes	Yes	Yes	Yes	Yes
350	Vernon	Yes	Yes	Yes	Yes	Yes	Yes
351	Villa Park	Yes	Yes	Yes	Yes	Yes	Yes

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
352	Visalia	Yes	Yes	Yes	Yes	Yes	Yes
353	Vista	Yes	Yes	Yes	Yes	Yes	Yes
354	Walnut Creek	Yes	Yes	Yes	Yes	Yes	Yes
355	Wasco	Yes	Yes	Yes	Yes	Yes	Yes
356	Waterford	Yes	Yes	Yes	Yes	Yes	Yes
357	Watsonville	Yes	Yes	Yes	Yes	Yes	Yes
358	Weed	Yes	Yes	Yes	Yes	Yes	Yes
359	West Covina	Yes	Yes	Yes	Yes	Yes	Yes
360	West Hollywood	Yes	Yes	Yes	Yes	Yes	Yes
361	West Los Angeles	Yes	Yes	Yes	Yes	Yes	Yes
362	West Sacramento	Yes	Yes	Yes	Yes	Yes	Yes
363	Westlake Village	Yes	Yes	Yes	Yes	Yes	Yes
364	Westminster	Yes	Yes	Yes	Yes	Yes	Yes
365	Westmorland	Yes	Yes	Yes	Yes	Yes	Yes
366	Wheatland	Yes	Yes	Yes	Yes	Yes	Yes
367	Whittier	Yes	Yes	Yes	Yes	Yes	Yes
368	Willits	Yes	Yes	Yes	Yes	Yes	Yes
369	Willows	Yes	Yes	Yes	Yes	Yes	Yes
370	Windsor	Yes	Yes	Yes	Yes	Yes	Yes
371	Winters	Yes	Yes	Yes	Yes	Yes	Yes
372	Woodlake	Yes	Yes	Yes	Yes	Yes	Yes
373	Woodland	Yes	Yes	Yes	Yes	Yes	Yes
374	Woodside	Yes	Yes	Yes	Yes	Yes	Yes
375	Yorba Linda	Yes	Yes	Yes	Yes	Yes	Yes
376	Yountville	Yes	Yes	Yes	Yes	Yes	Yes
377	Yreka	Yes	Yes	Yes	Yes	Yes	Yes
378	Yuba City	Yes	Yes	Yes	Yes	Yes	Yes

23.3 NETWORK DISASTER/OPERATIONAL RECOVERY

23.3.1 Telecommunications Service Priority (TSP) Program

When applicable, 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 requirements and shall meet or exceed them? Yes

23.4 OTHER SERVICES

23.4.1 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.

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

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

23.4.2 Services Related Infrastructure (SRI)

The Contractor shall offer infrastructure service as defined below.

23.4.2.1 Extended Demarcation Wiring Services

The Contractor shall provide Extended Demarcation (Extended Demarc) wiring to support the services covered by this IFB C4DNCS19 Category for all of the Customer occupied buildings where services under this Contract are being offered. Extended Demarc wiring includes wire/cable related activities required

to extend the demarcation point to the Customer defined termination location or cross-connect point from the Contractor's Minimum Point of Entry (MPOE).

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

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

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

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

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

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

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

Wiring will be installed according to industry Standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, and Uniform Building Cabling/Wiring current at the time of this IFB and as periodically updated by the CALNET Program. Additionally, all wiring installation and maintenance activities

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

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

Bidder shall provide the Extended Demarcation Wiring Services described in Table 23.4.2.1.

Table 23.4.2.1 – Extended Demarcation Wiring Services

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Extended Demarcation -Copper – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	AT&T assumes customer has adequate pathways.	EDCR	Yes
2	Extended Demarcation -Copper – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	AT&T assumes customer has adequate pathways.	EDCO	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
3	Extended Demarcation -Copper – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	AT&T assumes customer has adequate pathways.	EDCH	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
4	Extended Demarcation -Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	AT&T assumes customer has adequate pathways.	EDC25R	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
5	Extended Demarcation -Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	AT&T assumes customer has adequate pathways.	EDC25O	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
6	Extended Demarcation -Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	AT&T assumes customer has adequate pathways.	EDC25H	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
7	Extended Demarcation - Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	AT&T assumes customer has adequate pathways.	EDOR	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
8	Extended Demarcation - Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	AT&T assumes customer has adequate pathways.	EDOO	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	AT&T assumes customer has adequate pathways.	EDOH	Yes

23.4.2.2 Unsolicited Services Related Infrastructure

Bidder may offer additional unsolicited Services Related Infrastructure in Table 23.4.2.2.

Table 23.4.2.2 – Unsolicited Services Related Infrastructure

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
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23.4.3 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 Contractors responsibilities. Work performed under this Section 23.4.3 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.

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

In Cost Worksheet 23.4.3, 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 hours per dispatch/occurrence.

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

The Contractor shall offer emergency restoration services as detailed in Table 23.4.3.3.

Table 23.4.3.3 – Services Related Hourly Support

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

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor after regular hours.	MVVO	Yes
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor on Weekends or Holidays.	MVVH	Yes

23.5 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 Program and the Contractor with requirements that define and assist in the management of the SLAs. This section includes the SLA formats, general requirements, stop clock conditions, and the Technical SLAs for the services identified in this solicitation.

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

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

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

23.5.2 Technical Requirements versus SLA Objectives

Sections 23.2 (Ethernet Services), 23.3 (Network Disaster/Operational Recovery) and 23.4 (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 this Requirement and shall meet or exceed it? Yes

23.5.3 Methods of Outage Reporting: Customer or Contractor

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

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

The second method of outage reporting occurs when the Contractor opens a trouble ticket as a result of network/system alarm or other method of service failure identification. In each instance the Contractor shall open a trouble ticket using the Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) and monitor and report to Customer until service is restored.

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

23.5.4 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 specific objective level they are committing to for each service in space provided in the "Objective" section of each SLA description.

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

23.5.5 Contractor SLA Management Plan

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

1. Contractor SLA Manager and supporting staff responsibilities;

2. Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;
3. Creation and delivery of SLA Reports (SOW Business Requirements Section G.10.5). The Contractor shall include a sample report in accordance with SOW Business Requirements Section G.10.5, SLA Reports for the following: SLA Service Performance Report (SOW Business Requirements Section G.10.5.1), SLA Provisioning Report (SOW Business Requirements Section G.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements Section G.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements Section G.10.5.4). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET Program via the Private Oversight Website (SOW Business Requirements Section G.10.2);
4. SLA invoicing credit and refund process;
5. Contractor SLA problem resolution process for SLA management and SLA reporting. The Contractor shall provide a separate process for Customers and CALNET Program; and,
6. Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for Customer and CALNET Program.

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

23.5.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET Technical SLAs (Section 23.5.8):

1. With the exception of the Provisioning SLA (Section 23.5.8.9), the total SLA rights and remedies for any given month shall not exceed the sum of 100% of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
2. If a circuit or service fails to meet one or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET SLAs and remedies for services provided by Subcontractors and/or Affiliates;

4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA; and,
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges.

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

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

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

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

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

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

restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;

13. The Customer Escalation Process and/or the CALNET CMO Escalation Process shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);

14. Trouble reporting and restoration shall be provided 24x7 for CALNET services;

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

15. SLAs apply 24x7 unless SLA specifies an exception;

16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with SOW Business Requirements Section G.6;

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

17. The Contractor shall provide a CALNET DNCS SLA Manager responsible for CALNET DNCS SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET Program SLA oversight, report issues, and problem resolution concerns. The CALNET DNCS SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;

18. The Contractor shall provide Customer and CALNET Program support for SLA inquiries and issue resolution; and,

19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET DNCS Customer.

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

23.5.7 Trouble Ticket Stop Clock Conditions

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 23.5.7, which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) or Customer provisioning Service Request for each application of an SCC.

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

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

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

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

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

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

Table 23.5.7 Stop Clock Conditions

Line Item	Stop Clock Condition (SCC)	SCC Definition
1	END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User's request is documented and time stamped in the Contractor's trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.
2	OBSERVATION	Time after a service has been restored but End-User request ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the Service has not been restored.
3	END-USER NOT AVAILABLE	Time after a service has been restored but End-User is not available to verify that the Service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between Contractor's reasonable attempt to notify the End-User that Contractor believes the service has been restored and the time the End-User notifies the Contractor that the Service has not been restored.

Line Item	Stop Clock Condition (SCC)	SCC Definition
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	CUSTOMER PROVISIONING DELAY	Delays to Provisioning caused by lack of Customer's building entrance Facilities, conduit structures that are the Customer's responsibilities or Extended demarcation wiring. If the Service Providing Contractor has been contracted by the Customer for extended demarcation, this SCC shall not apply to missed dates/times. The Customer Provisioning Delay SCC is restricted to Provisioning SLAs only.
7	ACCESS	<p>Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following:</p> <ul style="list-style-type: none"> a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification; c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; <p>or,</p>

Line Item	Stop Clock Condition (SCC)	SCC Definition
		<p>d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.</p> <p>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.</p>
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.

Line Item	Stop Clock Condition (SCC)	SCC Definition
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET DNCS service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.
14	FORCE MAJEURE	Force Majeure events, as defined in the eVAQ General Provisions - Telecommunications, Section 28 (Force Majeure).
15	CUSTOMER ENVIRONMENTAL	An outage directly caused by customer premise environmental conditions, which are outside the control and responsibility of the Contractor. This includes a non-secured location, excessive heat or lack of cooling. If determined later that the environmental conditions were not the cause of the service outage, or a result of the Contractor modifying Contractor provided equipment without Customer's approval, the Customer Environmental SCC will not apply.

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

The Contractor shall provide and manage the following Technical SLAs.

23.5.8 Technical Service Level Agreements (SLA)

23.5.8.1 Availability (M-S)

SLA Name: Availability

Definition:

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

Measurement Process:

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

Services:

- MAE Services
- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

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

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
EPL and EVPL MAE Service 10/100 Mbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
EPL and EVPL MAE Service 1 Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S
EPL and EVPL MAE Service 10 Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	S
AT&T Switched Ethernet (ASE) Service		≥ 99.5%		S
AT&T Dedicated Ethernet (ADE) Service		≥ 99.5%		S
Opt-E-WAN (OEW) Service		≥ 99.5%		S
EPLS-WAN Service		≥ 99.5%		S
AT&T Managed Router Solution (MRS)		≥ 99.5%		S
AT&T Switched Ethernet on Demand (ASEoD) Service		≥ 99.5%		S

Rights and Remedies:

1. Per Occurrence:

- End-User Escalation Process
- CALNET CMO Escalation Process

2. Monthly Aggregated Measurements:

- First month to fail to meet the committed SLA objective shall result in a 15% credit or refund of the TMRC.
- The second consecutive month to fail to meet the committed SLA objective shall result in a 30% credit or refund of TMRC.

- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 50% credit or refund of the TMRC.

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

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

SLA Name: Catastrophic Outage 1 (CAT 1)

Definition:

The total loss of service at a single address based on a common cause resulting in the failure of five UNIs or any cumulative UNI failure equal to, or greater than, 10 Gbps.

Measurement Process:

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

Services:

MAE Service
AT&T Switched Ethernet (ASE) Service
AT&T Dedicated Ethernet (ADE) Service
Opt-E-WAN (OEW) Service
EPLS-WAN Service
AT&T Managed Router Solution (MRS)
AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	S
AT&T Switched Ethernet (ASE) Service		≤ 2 hours		S
AT&T Dedicated Ethernet (ADE) Service		≤ 2 hours		S
Opt-E-WAN (OEW) Service		≤ 2 hours		S
EPLS-WAN Service		≤ 2 hours		S
AT&T Managed Router Solution (MRS)		≤ 2 hours		S
AT&T Switched Ethernet on Demand (ASEoD) Service		≤ 2 hours		S

Rights and Remedies:

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

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

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

Services:

- MAE Services
- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	S
AT&T Switched Ethernet (ASE) Service		≤ 30 Minutes		S
AT&T Dedicated Ethernet (ADE) Service		≤ 30 Minutes		S

Opt-E-WAN (OEWS) Service		≤ 30 Minutes		\$
EPLS-WAN Service		≤ 30 Minutes		\$
AT&T Managed Router Solution (MRS)		≤ 30 Minutes		\$
AT&T Switched Ethernet on Demand (ASEoD) Service		≤ 30 Minutes		\$

Rights and Remedies:

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

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

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

SLA Name: Catastrophic Outage 3 (CAT 3)

Definition:

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

Measurement Process:

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

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

Services:

- MAE Service
- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MAE Service	≤ 30 Minutes	N/A	≤ 15 Minutes	P
AT&T Switched Ethernet (ASE) Service			≤ 15 Minutes	P
AT&T Dedicated Ethernet (ADE) Service			≤ 15 Minutes	P
Opt-E-WAN (OEW) Service			≤ 15 Minutes	P
EPLS-WAN Service			≤ 15 Minutes	P
AT&T Managed Router Solution (MRS)			≤ 15 Minutes	P

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
AT&T Switched Ethernet on Demand (ASEoD) Service			≤ 15 Minutes	P

Rights and Remedies:

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

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

23.5.8.5 Excessive Outage (M-S)

SLA Name: Excessive Outage

Definition:

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

Measurement Process:

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

Services:

- MAE Service
- AT&T Switched Ethernet (ASE) Service

AT&T Dedicated Ethernet (ADE) Service
Opt-E-WAN (OEW) Service
EPLS-WAN Service
AT&T Managed Router Solution (MRS)
AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 16 Hours	≤ 12 Hours	≤ 8 Hours	S
AT&T Switched Ethernet (ASE) Service		≤ 12 Hours		S
AT&T Dedicated Ethernet (ADE) Service		≤ 12 Hours		S
Opt-E-WAN (OEW) Service		≤ 12 Hours		S
EPLS-WAN Service		≤ 12 Hours		S
AT&T Managed Router Solution (MRS)		≤ 12 Hours		S
AT&T Switched Ethernet on Demand (ASEoD) Service		≤ 12 Hours		S

Rights and Remedies:

1. Per Occurrence:

- 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.

- Upon request from the Customer or the CALNET Program, the Contractor shall provide a briefing on the excessive outage restoration.

2. Monthly Aggregated Measurements:

- N/A

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

23.5.8.6 Notification

SLA Name: Notification

Definition:

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

Measurement Process:

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

Services:

All services

Objectives:

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

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

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

Rights and Remedies:

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

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

23.5.8.7 Latency (M-S)

SLA Name: Latency

Definition:

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.

Measurement Process:

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 an 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.

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.

Services:

MAE Service

- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 75ms	≤ 50ms	≤ 25ms	S
AT&T Switched Ethernet (ASE) Service		≤ 50ms		S
AT&T Dedicated Ethernet (ADE) Service		≤ 50ms		S
Opt-E-WAN (OEW) Service		≤ 50ms		S
EPLS-WAN Service		≤ 50ms		S
AT&T Managed Router Solution (MRS)		≤ 50ms		S
AT&T Switched Ethernet on Demand (ASEoD) Service		≤ 50ms		S

Rights and Remedies:

1. Per Occurrence:

- First month the service fails to meet the committed SLA objectives shall result in a 15% credit or refund of the TMRC for the reported service.

- Next consecutive month to fail to meet the committed SLA objectives shall result in a 25% credit or refund of the TMRC.
 - Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35% credit or refund of the TMRC.
2. Monthly Aggregated Measurements:
- N/A

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

23.5.8.8 Packet Loss (M-S)

SLA Name: Packet Loss

Definition:

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.

Measurement Process:

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.

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.

Services:

- MAE Service
- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	S
AT&T Switched Ethernet (ASE) Service		≤ .5% Packet Loss		S
AT&T Dedicated Ethernet (ADE) Service		≤ .5% Packet Loss		S
Opt-E-WAN (OEWS) Service		≤ .5% Packet Loss		S
EPLS-WAN Service		≤ .5% Packet Loss		S
AT&T Managed Router Solution (MRS)		≤ .5% Packet Loss		S
AT&T Switched Ethernet on Demand (ASEoD) Service		≤ .5% Packet Loss		S

Rights and Remedies:

1. Per Occurrence:

- First month the service fails to meet the committed SLA objectives shall result in a 15% credit or refund of the TMRC for the reported service.
- Next consecutive month to fail to meet the committed SLA objectives shall result in a 25% credit or refund of the TMRC.
- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35% credit or refund of the TMRC.

2. Monthly Aggregated Measurements:

- N/A

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

23.5.8.9 Provisioning (M-S)

SLA Name: Provisioning

Definition:

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

Provisioning SLAs have two objectives:

Objective 1: Individual service installation; and,

Objective 2: Successful Install Monthly Percentage by service type.

Note: Provisioning timelines include extended demarcation wiring when appropriate.

Measurement Process:

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

Objective 2: Successful Install Monthly Percentage per Service Type: The Contractor shall sum all individual installations per service, as listed below, meeting the objective in the measurement period and divide by the sum of

all individual service installations due per service in the measurement period and multiply by 100 to equal the percentage of service installations completed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.

Services:

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

Service (Features must be installed with service except when listed below.	Committed Interval Days	Coordinated/Managed Project
MAE Service	30	Coordinated/Managed Project
AT&T Switched Ethernet (ASE) Service	30	Coordinated/Managed Project
AT&T Dedicated Ethernet (ADE) Service	30	Coordinated/Managed Project
Opt-E-WAN (OEW) Service	30	Coordinated/Managed Project
EPLS-WAN Service	30	Coordinated/Managed Project
AT&T Managed Router Solution (MRS)	30	Coordinated/Managed Project
AT&T Switched Ethernet on Demand (ASEoD) Service	30	Coordinated/Managed Project

Objectives:

Objective 1: Individual service installation: Service provisioned on or before the due date per installation Service Request.

Objective 2: Monthly Average percent by service type:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MAE Service	≥ 90%	N/A	≥ 95%	P
AT&T Switched Ethernet (ASE) Service			≥ 95%	P

AT&T Dedicated Ethernet (ADE) Service			≥ 95%	P
Opt-E-WAN (OEW) Service			≥ 95%	P
EPLS-WAN Service			≥ 95%	P
AT&T Managed Router Solution (MRS)			≥ 95%	P
AT&T Switched Ethernet on Demand (ASEoD) Service			≥ 95%	P

Rights and Remedies:

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

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

23.5.8.10 Time to Repair (M-S)

SLA Name: Time to Repair

Definition:

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

Measurement Process:

This SLA is based on trouble ticket Unavailable Time per service (Circuit ID or Service ID). The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a service that is not fully functional and remains

unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time. This SLA is applied per occurrence.

Services:

- MAE Service
- AT&T Switched Ethernet (ASE) Service
- AT&T Dedicated Ethernet (ADE) Service
- Opt-E-WAN (OEW) Service
- EPLS-WAN Service
- AT&T Managed Router Solution (MRS)
- AT&T Switched Ethernet on Demand (ASEoD) Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	P
AT&T Switched Ethernet (ASE) Service			≤ 4 Hours	P
AT&T Dedicated Ethernet (ADE) Service			≤ 4 Hours	P
Opt-E-WAN (OEW) Service			≤ 4 Hours	P
EPLS-WAN Service			≤ 4 Hours	P
AT&T Managed Router Solution (MRS)			≤ 4 Hours	P
AT&T Switched Ethernet on Demand (ASEoD) Service			≤ 4 Hours	P

Rights and Remedies:

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

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

23.5.8.11 Managed Service Proactive Notification

SLA Name: Managed Service Proactive Notification

Definition:

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

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

Measurement Process:

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

Services:

MAE Services with Managed Router or IP Enabled Routing Device

Objectives:

15 Minutes

Rights and Remedies:

1. Per Occurrence:

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

2. Monthly Aggregated Measurements:

- N/A

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

23.5.8.12 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 requirements and shall meet or exceed them? Yes

23.5.8.13 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 23.5.8 for each unsolicited offering determined by the CALNET Program not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

23.5.8.14 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 Section 23.5.8.

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