

Comcast Business Communications, LLC a Delaware limited liability company, on behalf of itself and its applicable operating affiliates and subsidiaries (including Comcast Phone of California, LLC and Comcast Cable Communications Management, LLC); together offering services throughout this Network Service Proposal, identified as "Comcast".

Volume 2 Response to Category 3 MAN Ethernet Requirements Final Bid

Amendment No. 4

California Department of Technology

IFB STPD 12-001-B Refresh for CALNET 3 Category 3 C3-B-15-03-TS-40

Revised Date: January 1, 2018

Eric Prosser
Director, Comcast Business
9601 E. Panorama Circle
Centennial, CO 80112
303-662-6232
Eric_Prosser@cable.comcast.com

Table of Contents

EXHIBIT 8: CONTRACTOR'S LICENSE INFORMATION	4
EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS	6
EXHIBIT 10: BIDDING PREFERENCES AND INCENTIVES	
EXHIBIT 11: STD 843, DVBE DECLARATIONS	10
EXHIBIT 12: GSPD 05-105, BIDDER DECLARATION	
EXHIBIT 13: STD 830, TACPA PREFERENCE REQUEST	13
EXHIBIT 14: COMMERCIALLY USEFUL FUNCTION STATEMENT	
STATEMENT OF WORK FOR CATEGORY 3	
3.1 OVERVIEW	
3.1.1 BIDDER RESPONSE REQUIREMENTS	
3.1.2 DESIGNATION OF REQUIREMENTS	
3.1.3 PACIFIC TIME ZONE	
3.2 ETHERNET SERVICES	
3.2.1 METROPOLITAN AREA NETWORK ETHERNET (MAE) SERVICES	
3.2.1.1 General Requirements	
3.2.1.1.1 Standards	
3.2.1.1.2 End-to-End Ethernet Delivery	
3.2.1.1.3 Ethernet Virtual Connections (EVC)	
3.2.1.1.4 Ethernet User-to-Network Interface (UNI)	
3.2.1.1.5 Multiple Classes of Service (CoS)	
3.2.1.1.6 Service Frame Delivery Options	
3.2.1.1.7 Ethernet Service Frame Disposition	
3.2.1.1.8 VLAN Tag Preservation	
3.2.1.1.9 Maximum Frame Size	
3.2.1.1.10 Performance Monitoring	18
3.2.1.1.11 Network Monitoring	
3.2.1.1.12 Technical Support	19
3.2.1.1.13 Maintenance	
3.2.1.1.14 Equipment and Environment	
3.2.1.2 Ethernet Private Line (EPL) MAE Service	
3.2.1.3 Ethernet Virtual Private Line (EVPL) MAE Service	
3.2.1.4 EVPL MAE Service Multiplexing	
3.2.1.5 EPL and EVPL MAE Classes of Service (CoS)	
3.2.1.5.1 BASIC CoS MAE	21
3.2.1.5.2 PRIORITY CoS MAE	
3.2.1.5.3 PREMIUM CoS MAE	
3.2.1.6 EPL and EVPL MAE Service Feature Description	
3.2.1.6.1 EPL and EVPL MAE Service Connections	
3.2.1.6.2 Managed Router Service:	
3.2.1.7 MAE Service Geographic Requirements	
3.3 NETWORK DISASTER/OPERATIONAL RECOVERY	
3.3.1 TELECOMMUNICATIONS SERVICE PRIORITY (TSP) PROGRAM	
3.3.2 DATA NETWORK DISASTER/OPERATIONAL RECOVERY	119
3.4 OTHER SERVICES	120
3.4.1 HOURLY RATES FOR SERVICES	120

3.4.2	EXTE	NDED DEMARCATION WIRING SERVICES	120
3.4.3	SERV	/ICES RELATED HOURLY SUPPORT	126
3.5	SERVI	CE LEVEL AGREEMENTS (SLA)	127
3.5.1	SERV	/ICE LEVEL AGREEMENT FORMAT	128
3.5.2	TECH	INICAL REQUIREMENTS VERSUS SLA OBJECTIVES	128
3.5.3	TWO	METHODS OF OUTAGE REPORTING: CUSTOMER OR CONTRACTOR	128
3.5.4	BIDD	PER RESPONSE TO SERVICE LEVEL AGREEMENTS	129
3.5.5		TRACTOR SLA MANAGEMENT PLAN	
3.5.6		INICAL SLA GENERAL REQUIREMENTS	
3.5.7	TRO	UBLE TICKET STOP CLOCK CONDITIONS	131
3.5.8		INICAL SERVICE LEVEL AGREEMENTS	
3.5.	.8.1	Availability (M-S)	135
3.5.	.8.2	Catastrophic Outage 1 (CAT 1) (M-S)	137
3.5.	.8.3	Catastrophic Outage 2 (CAT 2) (M-S)	138
3.5.	.8.4	Catastrophic Outage 3 (CAT 3) (M-S)	139
3.5.	.8.5	Excessive Outage (M-S)	140
3.5.	.8.6	Notification	
3.5.	.8.7	Latency (M-S)	
3.5.	.8.8	Packet Loss (M-S)	
3.5.		Provisioning (M-S)	
	.8.10	Time to Repair (TTR) (M-S)	
	.8.11	Managed Service Proactive Notification (M-S)	
	.8.12	Unsolicited Service Enhancement SLAs	
	.8.13	Proposed Unsolicited Offerings	
3.5.	.8.14	CONTract Amendment Service Enhancement SLAS	148



Exhibit 8: Contractor's License Information

(Installation Services Only)

Exhibit 8: Contractor's License information is attached.



This page intentionally left blank.



Exhibit 9: Service Taxes, Fees, Surcharges and Surcredits

Exhibit 9: Service Taxes, Fees, Surcharges and Surcredits will be submitted as required after contract award.



Exhibit 10: Bidding Preferences and Incentives

Exhibit 10: Bidding Preferences and Incentives is attached.



This page intentionally left blank.



This page intentionally left blank.



Exhibit 11: STD 843, DVBE Declarations

Comcast is not claiming DVBE status.



Exhibit 12: GSPD 05-105, Bidder Declaration

Exhibit 12: GSPD 05-105, Bidder Declaration is attached.



This page intentionally left blank.



Exhibit 13: STD 830, TACPA Preference Request

Comcast is not claiming TACPA preference.



Exhibit 14: Commercially Useful Function Statement

Comcast is not claiming an SB subcontracting preference or a DVBE subcontracting incentive.



Statement of Work for Category 3

Category 3 – Metropolitan Area Network ETHERNET

3.1 OVERVIEW

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

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

3.1.1 BIDDER RESPONSE REQUIREMENTS

Throughout	this	IFB	Refresh,	Bidders	are	required	to	acknowledge	acceptance	of	the
requirements	s des	cribe	d herein b	y respon	ding 1	to one (1)	of t	the following:			

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

"Bidder understands the Requirement and shall meet or exceed it? Yes No"
Or,
Example B (for responses that require the Bidder to provide a description or written response to the requirement):
"Bidder understands the requirements in Section xxx and shall meet or exceed them? Yes No
Description:"

3.1.2 DESIGNATION OF REQUIREMENTS

All Technical Requirements specified in this IFB Refresh Section are Mandatory and must be responded to as identified in IFB Refresh Section 3.3.2.5 by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)". The State will have the option of whether or not to include each item in the Contract, based on the best interest of the State. Furthermore, Customers will have the option whether or not to order services or features included in the Contract. Service Requests for some CALNET 3 services or features may require CALNET 3 CMO approval.



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

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

3.1.3 PACIFIC TIME ZONE

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

3.2 ETHERNET SERVICES

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

3.2.1 METROPOLITAN AREA NETWORK ETHERNET (MAE) SERVICES

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

Bidder understands the Requirement and shall meet or exceed it? Yes X No	Yes X No	or exceed it? Yes	d shall meet	Requirement and	the R	· understands	Ridder
--	----------	-------------------	--------------	-----------------	-------	---------------	--------

3.2.1.1 General Requirements

3.2.1.1.1 Standards

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

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

Bidder understands the Requirement and shall meet or exceed it? Yes__X___ No____



3.2.1.1.2 End-to-End Ethernet Delivery

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

3.2.1.1.3 Ethernet Virtual Connections (EVC)

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X No_____

3.2.1.1.4 Ethernet User-to-Network Interface (UNI)

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

Table 3.2.1.1.4 – UNI Physical Interfaces

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

3.2.1.1.5 Multiple Classes of Service (CoS)

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

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

3.2.1.1.6 Service Frame Delivery Options

Service Frame Delivery options supported shall include



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

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

3.2.1.1.7 Ethernet Service Frame Disposition

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

Table 3.2.1.1.7 - Service Frame Delivery Disposition

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

3.2.1.1.8 VLAN Tag Preservation

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No_____

3.2.1.1.9 Maximum Frame Size

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

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

3.2.1.1.10 Performance Monitoring

The Contractor shall conduct Performance Monitoring that includes the following:

1. Signal failure;



2.	Signal degradation;

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

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

Bidder understands the Yes_ X No	requirements in Section 3.2.1.1.10 and shall meet or exceed them?
Description:	
Monitoring the Networl	k
includes surveillance, tro Network Operations Cer and Denver, CO. Each st assist with technical trou and Tier III repair groups monitors the network e responds to network ev	s organization provides World Class Enterprise Customer Care, which puble-shooting, and resolution through its state-of-the-art 24 x 7 x 365 leter (NOC) with two redundant Customer Care Centers in Naperville, IL taffed to answer any questions, perform changes to existing services and libles. Both Customer Care Centers are collocated with Enterprise Tier II is, easily facilitating higher level technical support. The NOC continuously quipment, service health, and performance of the Comcast network, ents and service degradations, dispatches local field technicians, and vice issues, in many cases before the customer has noticed the problem.
3.2.1.1.11	Network Monitoring
	The Contractor shall monitor all services on a 24x365 basis.
Bidder understands the	Requirement and shall meet or exceed it? YesX No

3.2.1.1.12 Technical Support

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

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



3.2.1.1.13 Maintenance

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

Bidder understands the Requirement and shall meet or exceed it? Yes X No 3.2.1.1.14 Equipment and Environment The Contractor shall provide and install all network terminating Equipment (NTE) in Customer provided racking and utilize State provided AC power. The NTE shall connect to either a Customer router with an Ethernet blade or a Customer Ethernet switch equipped to support Ethernet located within fifty feet. All Equipment shall adhere to the Telcordia Network Equipment Building System (NEBS). Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____ 3.2.1.2 Ethernet Private Line (EPL) MAE Service The Contractor shall provide Ethernet Private Line (EPL) MAE service. This service shall provide a logical Point-to-Point connection between two (2) Customer locations or a Customer location and an Internet Service Provider Point of Presence (POP), Interexchange Carrier POP, or another 3rd party location. EPL service shall enable Customers to use any VLANs or Ethernet control protocol across the service without coordination with the Contractor. EPL service shall enable Customers to connect their Customer Premise Equipment (CPE) using an Ethernet interface and provide one (1) Ethernet Virtual Connection

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

(EVC) between two (2) Customer locations.



3.2.1.3 Ethernet Virtual Private Line (EVPL) MAE Service

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

3.2.1.4 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 ports on the Customer's router or Ethernet switch.

3.2.1.5 EPL and EVPL MAE Classes of Service (CoS)

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

3.2.1.5.1 BASIC CoS MAE

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

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

Bidder	understands	the	requirements	in	Section	3.2.1.5.1	and	shall	meet	or	exceed	them?
Yes_ <u>X</u>	No	_										

Description:

Comcast supports a Basic CoS for data applications with more tolerance for delay and/or those with least priority.

Comcast's Ethernet service offers three different classes of service. The CoS options allow for differentiated service performance levels for different types of network traffic. It is used to



prioritize customer mission-critical traffic from lesser priority traffic in the network. The customer must specify a CIR for each CoS to indicate how much bandwidth should be assigned to each CoS.

For Basic CoS MAE, the customer must mark all Basic CoS packets using 802.1p CoS values 0-1 to ensure the service will provide the intended CoS performance objectives.

3.2.1.5.2 PRIORITY CoS MAE

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

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

Table 3.2.1.5.2 – PRIORITY CoS Performance Objectives

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

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



Bidder understands the requirements in Section 3.2.1.5.2 and shall meet or exceed them? Yes \underline{X} No____

Description:

Comcast supports a Priority CoS for data applications with more tolerance for delay and/or those that are lower in priority.

Comcast's Ethernet service offers three different classes of service. The CoS options allow for differentiated service performance levels for different types of network traffic. It is used to prioritize customer mission-critical traffic from lesser priority traffic in the network. The customer must specify a CIR for each CoS to indicate how much bandwidth should be assigned to each CoS.

For Priority CoS MAE, the customer must mark all Priority CoS packets using 802.1p CoS values 2-3 to ensure the service will provide the intended CoS performance objectives.

3.2.1.5.3 PREMIUM CoS MAE

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

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

Table 3.2.1.5.3 - Class of Service Options

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

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



Bidder understands the requirements in Section 3.2.1.5.3 and shall meet or exceed them? Yes X No____

Description:

Comcast supports a Premium CoS for data applications with more tolerance for delay and/or those that are lower in priority.

Comcast's Ethernet service offers three different classes of service. The CoS options allow for differentiated service performance levels for different types of network traffic. It is used to prioritize customer mission-critical traffic from lesser priority traffic in the network. The customer must specify a CIR for each CoS to indicate how much bandwidth should be assigned to each CoS.

For Premium CoS MAE, the customer must mark all Premium CoS packets using 802.1p CoS value 5 to ensure the service will provide the intended CoS performance objectives.

3.2.1.6 EPL and EVPL MAE Service Feature Description

Contractor shall provide MAE services as described below.

3.2.1.6.1 EPL and EVPL MAE Service Connections

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

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

3.2.1.6.2 Managed Router Service:

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

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



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

Bidder unde	rstands the	requirements	in	Section	3.2.1.6.2	and	shall	meet	or	exceed	them?
Yes_ <u>X</u> /	Vo										
Description:											

The Comcast Managed Router Service provides basic routing, QOS and network address translation. When Comcast provides the managed router, the exact configuration for Comcast's managed router will be agreed to between the Customer and Comcast including WAN Protocols, Static routes, OSPF: 1 area. No multiple OSPF's, BGP router, LAN Protocols, class of service.

Comcast includes the services below as standard with this service:

- Proactive management by Comcast of the equipment at the Customer premise requires
 Comcast to configure access to pull the necessary SNMP traps or use other mechanisms to
 properly access alarms and other equipment data.
- Four hour, 24 hour-a-day repair coverage for the managed router.
- 24x7 Tier 2 support is provided with this service. Tier 2 support provides a Comcast Help Desk to support a Customer Tier 1 help desk.
- Support for Change Requests. Comcast enables the Customer to request changes to the router configuration due to Customer policy changes or normal evolution of service.



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

Table 3.2.1.6.a -MAE Services and Features

	Feature Name	Feature Description	Mee Exce	der ts or eds? N	Bidder's Product Identifier		
1	EPL MAE Service Connection 10/100 Mbps	10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EPLUNI100		
	transmission of I	Description: The service provides b i E thernet frames using a standard I Ethernet interface (UNI).					
2	EPL MAE Service Connection 10/100 Mbps with Managed Router	10/100 Mbps Ethernet port per location with managed router; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		NSX0697		
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 10/100 Mbps (10/100BASE-T) Ethernet interface (UNI) with managed router.						

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Meets or Exceeds?		Bidder's Product Identifier
3	EPL MAE Service Connection Gigabit Ethernet (1 Gbps)	1000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EPLUNIGIG		
	transmission of I	Description: The service provides bi Ethernet frames using a standard I 000BaseSX) Ethernet interface (UN	EEE 80				
4	EPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed Router	1000 Mbps Ethernet port per location, with managed router; Assessed per interface at bandwidths of 1Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		NSX0698		
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 1 Gbps (1000BaseT or 1000BaseSX) Ethernet interface (UNI) with managed router.						

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Meets or Exceeds?		Bidder's Product Identifier
5	EVPL MAE Service Connection 10/100 Mbps	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EVPLUNI100		
	transmission of I (10/100BASE-T) I	Description: The service provides bi Ethernet frames using a standard I Ethernet interface (UNI). The servi e services (EVCs) on a given UNI.	EEE 80	02.3 10	/100 Mbps		
6	EVPL MAE Service Connection 10/100 Mbps with Managed Router	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		NSX0699		
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 10/100 Mbps (10/100BASE-T) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI with managed router.						

	Feature Name	Feature Description	Mee Exce	der ts or eds? N	Bidder's Product Identifier	
7	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps)	Assessed per interface at bandwidths of 1Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		EVPLUNIGIG	
	transmission of I (1000BaseT or 10	Description: The service provides bi Ethernet frames using a standard I 000BaseSX) Ethernet interface (UN ultiplex multiple services (EVCs) or	EEE 80 I). The	02.3 1 (e servi	Gbps ce enables	
8	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed Router	Assessed per interface at bandwidths of 1Gbps Ethernet with managed router. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	Y		NSX0700	
	transmission of I (1000BaseT or 10	Description: The service provides bi Ethernet frames using a standard I 000BaseSX) Ethernet interface (UN ultiplex multiple services (EVCs) or	EEE 80 I). The	02.3 1 (e servi	Gbps ce enables	
9	Additional MAE MAC Addresses (51-100)	MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per EPL/EVPL connection. This optional feature increases that limit to up to 100 MAC addresses per EPL/EVPL connection. A technical review will be necessary to determine if service can be provided and for approval to exceed the limit.	Y		NSX0001	
	Bidder's Product Description: Standard EPL and EVPL services allow 250 MAC addresses to be present.					

	Feature Name	Feature Description	Mee Exce	der ts or eds? N	Bidder's Product Identifier	
10	Ethernet Virtual Connection (EVC) MAE	EVC rate element. EVCs shall be assigned in 1 Mbps increments within each port range. Customer may order additional EVCs to establish additional virtual connections over the same physical connections. When additional EVCs are ordered, the Customer must designate the portion of the CIR bandwidth assigned to each EVC.	Y		NSX0002	
		Description: Ethernet Virtual Connected within each port range.	ction (I	EVC) sl	hall be assigned	
11	CIR (BASIC CoS	MAE):				
11a	BASIC CIR - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0667	
	Bidder's Product [Description: 2Mbps Committed Info	rmation	Rate	with Basic CoS	
11b	BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0668	
	Bidder's Product [Description: 4Mbps Committed Info	rmation	n Rate	with Basic CoS	
11c	BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0669	
	Bidder's Product [Description: 8Mbps Committed Info	rmation	n Rate	with Basic CoS	
12	CIR (PRIORITY C	oS):				
12a	PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0670	
	Bidder's Product [CoS	Description: 2Mbps Committed Info	rmation	n Rate	with Priority	
12b	PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0671	
	Bidder's Product Description: 4Mbps Committed Information Rate with Priority CoS					

	Feature Name	Feature Description	Mee Exce	der ts or eds? N	Bidder's Product Identifier	
12c	PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0672	
	Bidder's Product [CoS	Description: 5Mbps Committed Info	rmatio	n Rate	with Priority	
12d	PRIORITY CIR MAE -8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0673	
	Bidder's Product I	Description: 8Mbps Committed Info	rmatio	n Rate	with Priority	
12e	PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0674	
	Bidder's Product [Description: 10Mbps Committed Info	ormatio	on Rate	with Priority	
12f	PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0675	
	Bidder's Product I	Description: 20Mbps Committed Info	ormatio	on Rate	with Priority	
12g	PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0676	
	Bidder's Product [Description: 50Mbps Committed Info	ormatio	on Rate	with Priority	
12h	PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0677	
	Bidder's Product I	Description: 100Mbps Committed In	format	ion Ra	te with Priority	
12i	PRIORITY CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0678	
	Bidder's Product Description: 200Mbps Committed Information Rate with Priority CoS					

	Feature Name	Feature Description	Bid Meet Exce Y	ts or eds?	Bidder's Product Identifier
12j	PRIORITY CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0679
	Bidder's Product I	Description: 300Mbps Committed In	format	ion Ra	te with Priority
12k	PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0680
	Bidder's Product I	Description: 500Mbps Committed In	format	ion Ra	te with Priority
12 I	PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0681
	Bidder's Product I	Description: 600Mbps Committed In	format	ion Ra	te with Priority
12m	PRIORITY CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0682
	Bidder's Product I	Description: 1000Mbps Committed I	nforma	tion R	ate with Priority
13	CIR (PREMIUM (CoS):			
13a	PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0683
	Bidder's Product I	Description: 2Mbps Committed Info	rmatior	Rate	with Premium
13b	PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0684
	Bidder's Product I	Description: 4Mbps Committed Info	rmatior	n Rate	with Premium
13c	PREMIUM CIR MAE – 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0685
	Bidder's Product I	Description: 5Mbps Committed Info	rmation	Rate	with Premium

	Feature Name	Feature Description	Mee Exce	lder ts or eds? N	Bidder's Product Identifier
13d	PREMIUM CIR MAE – 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0686
	Bidder's Product I	Description: 8Mbps Committed Info	rmatio	n Rate	with Premium
13e	PREMIUM CIR MAE – 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0687
	Bidder's Product [Description: 10Mbps Committed Info	ormatio	on Rate	with Premium
13f	PREMIUM CIR MAE – 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0688
	Bidder's Product [Description: 20Mbps Committed Info	ormatio	on Rate	with Premium
13g	PREMIUM CIR MAE – 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0689
	Bidder's Product I	Description: 50Mbps Committed Info	ormatio	on Rate	with Premium
13h	PREMIUM CIR MAE – 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0690
	Bidder's Product I	Description: 100Mbps Committed In	format	ion Ra	te with Premium
13i	PREMIUM CIR MAE – 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0691
	Bidder's Product I	Description: 200Mbps Committed In	format	ion Ra	te with Premium
13j	PREMIUM CIR MAE – 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0692
	Bidder's Product I	Description: 300Mbps Committed In	format	ion Ra	te with Premium

	Feature Name	Feature Description	Mee Exce	lder ts or eds? N	Bidder's Product Identifier
13k	PREMIUM CIR MAE – 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0693
	Bidder's Product [CoS	Description: 500Mbps Committed In	format	ion Ra	te with Premium
131	PREMIUM CIR MAE – 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Υ		NSX0694
	Bidder's Product I	Description: 600Mbps Committed In	format	ion Ra	te with Premium
13m	PREMIUM CIR MAE – 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	Y		NSX0695
	Bidder's Product Description: 1000Mbps Committed Information Rate with Premium CoS				

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

Table 3.2.1.6.b Unsolicited MAE Services and Features

	Feature Name	Feature Description	Bidder's Product Identifier
	Managed Router Service - 10Mbps	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Supports up to 10Mbps throughput.	MR00103
1.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Supports up to 10Mbps throughp	or MAE
	Managed Router Service - 50Mbps	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Supports up to 50Mbps throughput.	MR00503
2.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Supports up to 50Mbps throughp	or MAE



	Feature Name	Feature Description	Bidder's Product Identifier
	Managed Router Service - 100Mbps	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Supports up to 100Mbps throughput.	MR01003
3.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Supports up to 100Mbps through	or MAE
	Managed Router Service - 300Mbps	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Supports up to 300Mbps throughput.	MR03003
4.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Supports up to 300Mbps through	or MAE
	Managed Router Service - 500Mbps	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Configured to support up to 500Mbps throughput.	MR05003
5.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Configured to support up to 500N	or MAE
	Managed Router Service - GigE	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Configured to support up to 1Gbps throughput.	MR10003
6.	installation, config	escription: Comcast owned and managed router. Inc guration, maintenance, and diagnostic monitoring f ed from Comcast. Configured to supports up to 1Gb	or MAE
7.	Managed Router Service - 10 GigE	Managed Router Service Cisco, Juniper, or equivalent for MAE Services purchased from Comcast. Supports up to 10Gbps throughput	MR010G3



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Comcast owned and managed router. Includes installation, configuration, maintenance, and diagnostic monitoring for MAE services purchased from Comcast. Supports up to 10Gbps throughput.		
Ethernet Network Service (ENS) MAE			
	ENS MAE Service Connection Gigabit Ethernet (10/100 Mbps)	Assessed per interface at bandwidths of 10/100 Mbps Ethernet. The ENS connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	ENSUNI100
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 10/100 Mbps (10/100BASE-T) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI, and connect multi-point to multi-point. Ethernet Network Services (ENS) are ideal for connecting your locations with a network that can meet the demands of high data traffic. Features include:		
8.	 Redundant links for all locations, ensuring maximum network availability. Easily scale network capacity from 10Mbps to 10Gbps Ethernet. Implement your own VLANs without coordination with Comcast. Transmit data with low-latency across a Wide Area Network, allowing applications to perform as if users were on the same Local Area Network (LAN). 		
	ENS MAE	Assessed per interface at bandwidths of 1Gbps	ENSUNIGIG



	Feature Name	Feature Description	Bidder's Product Identifier
	transmission of Et 1000BaseSX) Ether multiple services (Ethernet Network network that can research to Scale network cate Implement your of Transmit data with	escription: The service provides bidirectional, full dethernet frames using a standard IEEE 802.3 1Gbps ernet interface (UNI). The service enables customers (EVCs) on a given UNI, and connect multi-point to a Services (ENS) are ideal for connecting your location meet the demands of high data traffic. Features included a pacity from 10Mbps to 10Gbps Ethernet. Sown VLANs without coordination with Comcast. It low-latency across a Wide Area Network, allowing the same Local Area Network (LAN).	(1000BaseT or is to multiplex nulti-point. ons with a ude:
10.	ENS MAE Service Connection Gigabit Ethernet (10 Gbps)	Assessed per interface at bandwidths of 10Gbps Ethernet. The ENS connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	ENSUNI10G



	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 10Gbps (1000BASE-SR or 10GBASE-LR) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI, and connect multi-point to multipoint. Ethernet Network Services (ENS) are ideal for connecting your locations with a network that can meet the demands of high data traffic. Features include:				
	• Implement your • Transmit data wit	apacity from 10Mbps to 10Gbps Ethernet. own VLANs without coordination with Comcast. th low-latency across a Wide Area Network, allowing sers were on the same Local Area Network (LAN).	g applications		
	ENS MAE Service Connection 100 Gbps	100 Gbps Ethernet Port assessed per interface at bandwidths of 100 Gbps Ethernet. The ENS 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.	ENSUNI100G		
	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 100Gbps (10000BASE-SR or 100GBASE-LR) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI, and connect multi-point to multipoint. Ethernet Network Services (ENS) are ideal for connecting your locations with a network that can meet the demands of high data traffic. Features include:				
11.	 Scale network capacity from 10Mbps to 100Gbps Ethernet. Implement your own VLANs without coordination with Comcast. Transmit data with low-latency across a Wide Area Network, allowing applications to perform as if users were on the same Local Area Network (LAN). 				
ENS C	CIR (BASIC CoS MA	E)			
	ENS BASIC CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0001 BAS		
12.	Bidder's Product Description: 1Mbps Committed Information Rate with Basic CoS				
	ENS BASIC CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0002 BAS		
13.	Bidder's Product Description: 2Mbps Committed Information Rate with Basic CoS				
14.	ENS BASIC CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0003 BAS		



	Feature Name	Feature Description	Bidder's Product Identifier	
	Bidder's Product Description: 3Mbps Committed Information Rate with Basic CoS			
	ENS BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0004 BAS	
15.	Bidder's Product De	escription: 4Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0005 BAS	
16.	Bidder's Product De	escription: 5Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0006 BAS	
17.	Bidder's Product D	escription: 6Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0007 BAS	
18.	Bidder's Product D	escription: 7Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0008 BAS	
19.	Bidder's Product D	escription: 8Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0009 BAS	
20.	Bidder's Product De	escription: 9Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0010 BAS	
21.	Bidder's Product De	escription: 10Mbps Committed Information Rate with	Basic CoS	
	ENS BASIC CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0020 BAS	
22.	Bidder's Product De	Bidder's Product Description: 20Mbps Committed Information Rate with Basic CoS		
23.	ENS BASIC CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0030 BAS	



	Factoria Nama	Footone Decembring	Bidder's Product		
	Feature Name	Feature Description	Identifier		
	Bidder's Product De	Bidder's Product Description: 30Mbps Committed Information Rate with Basic CoS			
	ENS BASIC CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0040 BAS		
24.	Bidder's Product De	escription: 40Mbps Committed Information Rate with	Basic CoS		
	ENS BASIC CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0050 BAS		
25.	Bidder's Product De	escription: 50Mbps Committed Information Rate with	Basic CoS		
	ENS BASIC CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0060 BAS		
26.	Bidder's Product De	escription: 60Mbps Committed Information Rate with	Basic CoS		
	ENS BASIC CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0070 BAS		
27.	Bidder's Product Description: 70Mbps Committed Information Rate with Basic CoS				
	ENS BASIC CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0080 BAS		
28.	Bidder's Product D	escription: 80Mbps Committed Information Rate with	Basic CoS		
	ENS BASIC CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0090 BAS		
29.	Bidder's Product D	escription: 90Mbps Committed Information Rate with	Basic CoS		
	ENS BASIC CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0100 BAS		
30.	Bidder's Product D	escription: 100Mbps Committed Information Rate wit	th Basic CoS		
	ENS BASIC CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0200 BAS		
31.	Bidder's Product De	Bidder's Product Description: 200Mbps Committed Information Rate with Basic CoS			
32.	ENS BASIC CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0300 BAS		



	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidder's Product D	Bidder's Product Description: 300Mbps Committed Information Rate with Basic CoS			
	ENS BASIC CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0400 BAS		
33.	Bidder's Product D	escription: 400Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0500 BAS		
34.	Bidder's Product D	escription: 500Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0600 BAS		
35.	Bidder's Product D	escription: 600Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0700 BAS		
36.	Bidder's Product D	escription: 700Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0800 BAS		
37.	Bidder's Product D	escription: 800Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0900 BAS		
38.	Bidder's Product D	escription: 900Mbps Committed Information Rate wi	th Basic CoS		
	ENS BASIC CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC1000 BAS		
39.	Bidder's Product D	escription: 1000Mbps Committed Information Rate v	vith Basic CoS		
	ENS BASIC CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC2000 BAS		
40.	Bidder's Product D	 escription: 2000Mbps Committed Information Rate v	vith Basic CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	ENS BASIC CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC3000 BAS
41.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC4000 BAS
42.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC5000 BAS
43.	Bidder's Product Do	escription: 5000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC6000 BAS
44.	Bidder's Product Do	escription: 6000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC7000 BAS
45.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC8000 BAS
46.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith Basic CoS
	ENS BASIC CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC9000 BAS
47.	Bidder's Product Do	escription: 9000Mbps Committed Information Rate w	rith Basic CoS
48.	ENS BASIC CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC010G BAS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product De	escription: 10000Mbps Committed Information Rate	with Basic CoS



	Feature Name	Feature Description	Bidder's Product Identifier
	ENS BASIC CIR - 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC020G BAS
49.	Bidder's Product D	escription: 20Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC030G BAS
50.	Bidder's Product D	escription: 30Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC040G BAS
51.	Bidder's Product D	escription: 40Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC050G BAS
52.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC060G BAS
53.	Bidder's Product D	escription: 60Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC070G BAS
54.	Bidder's Product D	escription: 70Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC080G BAS
55.	Bidder's Product D	escription: 80Gbps Committed Information Rate with	BASIC CoS.
56.	ENS BASIC CIR - 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC090G BAS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product D	 escription: 90Gbps Committed Information Rate with	BASIC CoS.
	ENS BASIC CIR - 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC100G BAS
57.	Bidder's Product D	escription: 100Gbps Committed Information Rate wit	th BASIC CoS.
ENS C	IR (PRIORITY CoS	MAE)	
	ENS PRIORITY CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0001 PRI
58.	Bidder's Product D	escription: 1Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0002 PRI
59.	Bidder's Product D	escription: 2Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0003 PRI
60.	Bidder's Product D	escription: 3Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0004 PRI
61.	Bidder's Product D	escription: 4Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0005 PRI
62.	Bidder's Product D	escription: 5Mbps Committed Information Rate with	PRIORITY CoS
63.	ENS PRIORITY CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0006 PRI



	Feature Name	Feature Description	Bidder's Product Identifier	
	Bidder's Product D	Bidder's Product Description: 6Mbps Committed Information Rate with PRIORITY CoS		
	ENS PRIORITY CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0007 PRI	
64.	Bidder's Product D	escription: 7Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0008 PRI	
65.	Bidder's Product D	escription: 8Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0009 PRI	
66.	Bidder's Product D	escription: 9Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0010 PRI	
67.	Bidder's Product D	escription: 10Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0020 PRI	
68.	Bidder's Product D	escription: 20Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0030 PRI	
69.	Bidder's Product D	escription: 30Mbps Committed Information Rate with	PRIORITY CoS	
	ENS PRIORITY CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0040 PRI	
70.	Bidder's Product D	escription: 40Mbps Committed Information Rate with	PRIORITY CoS	



	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0050 PRI
71.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0060 PRI
72	Bidder's Product Do	escription: 60Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0070 PRI
73	Bidder's Product Do	escription: 70Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0080 PRI
74.	Bidder's Product Do	escription: 80Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0090 PRI
75	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	PRIORITY CoS
	ENS PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0100 PRI
76.	Bidder's Product Description: 100Mbps Committed Information Rate with PRIORITY CoS		
	ENS PRIORITY CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0200 PRI
77.	Bidder's Product Description: 200Mbps Committed Information Rate with PRIORITY CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PRIORITY	The guaranteed average bandwidth of the virtual	ENSEVC0300
	CIR MAE - 300 Mbps	circuit.	PRI
78.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PRIORITY
	ENS PRIORITY CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0400 PRI
79.	Bidder's Product Do	escription: 400Mbps Committed Information Rate with	th PRIORITY
	ENS PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0500 PRI
80.	Bidder's Product Description: 500Mbps Committed Information Rate with PRIORITY CoS		
	ENS PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0600 PRI
81.	Bidder's Product Do	escription: 600Mbps Committed Information Rate wit	th PRIORITY
	ENS PRIORITY CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0700 PRI
82.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wi	th PRIORITY
	ENS PRIORITY CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0800 PRI
83.	Bidder's Product Description: 800Mbps Committed Information Rate with PRIORITY CoS		
84.	ENS PRIORITY CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0900 PRI



			5:11	
	Feature Name	Feature Description	Bidder's Product Identifier	
	Bidder's Product Do	Bidder's Product Description: 900Mbps Committed Information Rate with PRIORITY CoS		
	ENS PRIORITY CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC1000 PRI	
85.	Bidder's Product Do	escription: 1000Mbps Committed Information Rate w	rith PRIORITY	
	ENS PRIORITY CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC2000 PRI	
86.	Bidder's Product Do	escription: 2000Mbps Committed Information Rate w	vith PRIORITY	
	ENS PRIORITY CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC3000 PRI	
87.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	rith PRIORITY	
	ENS PRIORITY CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC4000 PRI	
88.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith PRIORITY	
	ENS PRIORITY CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC5000 PRI	
89.	Bidder's Product Description: 5000Mbps Committed Information Rate with PRIORITY CoS			
	ENS PRIORITY CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC6000 PRI	
90.	Bidder's Product Description: 6000Mbps Committed Information Rate with PRIORITY CoS			



	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PRIORITY CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC7000 PRI
91.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith PRIORITY
	ENS PRIORITY CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC8000 PRI
92.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith PRIORITY
	ENS PRIORITY CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC9000 PRI
93.	Bidder's Product Description: 9000Mbps Committed Information Rate with PRIORITY CoS		
94.	ENS PRIORITY CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC010G PRI



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product D	escription: 10000Mbps Committed Information Rate	with PRIORITY
	ENS PRIORITY CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC020G PRI
95.	Bidder's Product D	escription: 20Gbps Committed Information Rate with	PRIORITY
	ENS PRIORITY CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC030G PRI
96.	Bidder's Product D	escription: 30Gbps Committed Information Rate with	PRIORITY
	ENS PRIORITY CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC040G PRI
97.	Bidder's Product D	escription: 40Gbps Committed Information Rate with	PRIORITY
	ENS PRIORITY CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC050G PRI
98.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	PRIORITY
	ENS PRIORITY CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC060G PRI
99.	Bidder's Product D	escription: 60Gbps Committed Information Rate with	PRIORITY
	ENS PRIORITY CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC070G PRI
100.	Bidder's Product Description: 70Gbps Committed Information Rate with PRIORITY CoS.		
	ENS PRIORITY CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC080G PRI
101.	Bidder's Product D	escription: 80Gbps Committed Information Rate with	PRIORITY



	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PRIORITY CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC090G PRI
102.	Bidder's Product Description: 90Gbps Committed Information Rate with PRIORITY CoS.		
	ENS PRIORITY CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC100G PRI
103.	Bidder's Product D CoS.	escription: 100Gbps Committed Information Rate wit	th PRIORITY
ENS C	CIR (PREMIUM CoS	MAE)	
	ENS PREMIUM CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0001 PRE
104.	Bidder's Product D	escription: 1Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0002 PRE
105.	Bidder's Product D	escription: 2Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0003 PRE
106.	Bidder's Product D	escription: 3Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0004 PRE
107.	Bidder's Product D	escription: 4Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0005 PRE
108.	Bidder's Product D	escription: 5Mbps Committed Information Rate with	PREMIUM CoS

	Feature Name	Eastura Description	Bidder's Product Identifier
	reature Name	Feature Description	identiller
	ENS PREMIUM CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0006 PRE
109.	Bidder's Product Do	escription: 6Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0007 PRE
110.	Bidder's Product Do	escription: 7Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0008 PRE
111.	Bidder's Product Do	escription: 8Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0009 PRE
112.	Bidder's Product Do	escription: 9Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0010 PRE
113.	Bidder's Product Do	escription: 10Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0020 PRE
114.	Bidder's Product Do	escription: 20Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0030 PRE
115.	Bidder's Product Do	escription: 30Mbps Committed Information Rate with	PREMIUM CoS
116.	ENS PREMIUM CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0040 PRE

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 40Mbps Committed Information Rate with PREMIUM CoS		
	ENS PREMIUM CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0050 PRE
117.	Bidder's Product D	escription: 50Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0060 PRE
118.	Bidder's Product D	escription: 60Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0070 PRE
119.	Bidder's Product D	escription: 70Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0080 PRE
120.	Bidder's Product D	escription: 80Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0090 PRE
121.	Bidder's Product D	escription: 90Mbps Committed Information Rate with	PREMIUM CoS
	ENS PREMIUM CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0100 PRE
122.	Bidder's Product Description: 100Mbps Committed Information Rate with PREMIUM CoS		
	ENS PREMIUM CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0200 PRE
123.	Bidder's Product Description: 200Mbps Committed Information Rate with PREMIUM CoS		

			Bidder's
	Feature Name	Feature Description	Product Identifier
	ENS PREMIUM CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0300 PRE
124.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PREMIUM
	ENS PREMIUM CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0400 PRE
125.	Bidder's Product Do	escription: 400Mbps Committed Information Rate with	th PREMIUM
	ENS PREMIUM CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0500 PRE
126.	Bidder's Product Description: 500Mbps Committed Information Rate with PREMIUM CoS		
	ENS PREMIUM CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0600 PRE
127.	Bidder's Product Do	escription: 600Mbps Committed Information Rate wit	th PREMIUM
	ENS PREMIUM CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0700 PRE
128.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wit	th PREMIUM
	ENS PREMIUM CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0800 PRE
129.	Bidder's Product Description: 800Mbps Committed Information Rate with PREMIUM CoS		
130.	ENS PREMIUM CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC0900 PRE

	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidder's Product D	Bidder's Product Description: 900Mbps Committed Information Rate with PREMIUM CoS			
	ENS PREMIUM CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC1000 PRE		
131.	Bidder's Product D	escription: 1000Mbps Committed Information Rate w	rith PREMIUM		
	ENS PREMIUM CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC2000 PRE		
132.	Bidder's Product D	escription: 2000Mbps Committed Information Rate w	rith PREMIUM		
	ENS PREMIUM CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC3000 PRE		
133.	Bidder's Product D	escription: 3000Mbps Committed Information Rate w	rith PREMIUM		
	ENS PREMIUM CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC4000 PRE		
134.	Bidder's Product D	escription: 4000Mbps Committed Information Rate w	rith PREMIUM		
	ENS PREMIUM CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC5000 PRE		
135.	Bidder's Product Description: 5000Mbps Committed Information Rate with PREMIUM CoS				
	ENS PREMIUM CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC6000 PRE		
136.	Bidder's Product Description: 6000Mbps Committed Information Rate with PREMIUM CoS				



	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PREMIUM CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC7000 PRE
137.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith PREMIUM
	ENS PREMIUM CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC8000 PRE
138.	Bidder's Product Description: 8000Mbps Committed Information Rate with PREMIUM CoS		
	ENS PREMIUM CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC9000 PRE
139.	Bidder's Product Description: 9000Mbps Committed Information Rate with PREMIUM CoS		
140.	ENS PREMIUM CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC010G PRE



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product D	escription: 10000Mbps Committed Information Rate	with PREMIUM
	ENS PREMIUM CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC020G PRE
141.	Bidder's Product Do	escription: 20Gbps Committed Information Rate with	PREMIUM
	ENS PREMIUM CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC030G PRE
142.	Bidder's Product Do	escription: 30Gbps Committed Information Rate with	PREMIUM
	ENS PREMIUM CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC040G PRE
143.	Bidder's Product Document Cos.	escription: 40Gbps Committed Information Rate with	PREMIUM
	ENS PREMIUM CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC050G PRE
144.	Bidder's Product Do	escription: 50Gbps Committed Information Rate with	PREMIUM
	ENS PREMIUM CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC060G PRE
145.	Bidder's Product D	escription: 60Gbps Committed Information Rate with	PREMIUM
	ENS PREMIUM CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC070G PRE
146.	Bidder's Product D	escription: 70Gbps Committed Information Rate with	PREMIUM
_	ENS PREMIUM CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC080G PRE
147.	Bidder's Product Description: 80Gbps Committed Information Rate with PREMIUM CoS.		
	ENS PREMIUM CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC090G PRE
148.	Bidder's Product D	escription: 90Gbps Committed Information Rate with	PREMIUM

	Feature Name	Feature Description	Bidder's Product Identifier
	ENS PREMIUM CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	ENSEVC100G PRE
149.	Bidder's Product Do	escription: 100Gbps Committed Information Rate wit	h PREMIUM
Ethern	net Private Line (EP	L) MAE	
	EPL MAE Service Connection Gigabit Ethernet (10 Gbps)	10000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	EPLUNI10G
150.	Bidder's Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 1 Gbps (1000BaseT of 1000BaseSX) Ethernet interface (UNI).		
	EPL MAE Service Connection 100 Gbps	100 Gbps Ethernet port per location; Assessed per interface at bandwidths of 100 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. May be delivered as a Wavelength.	EPLUNI100G
151.	transmission of E	escription: The service provides bidirectional, full duthernet frames using a standard IEEE 802.3 1 Gbps nernet interface (UNI).	
EPL C	IR (BASIC CoS MAI	≣)	
	EPL BASIC CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0001B AS
152.	Bidder's Product Description: 1Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE- 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0002B AS
153.	Bidder's Product Description: 2Mbps Committed Information Rate with Basic CoS		
154.	EPL BASIC CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0003B AS

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 3Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0004B AS
155.	Bidder's Product De	escription: 4Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0005B AS
156.	Bidder's Product De	escription: 5Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0006B AS
157.	Bidder's Product De	escription: 6Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0007B AS
158.	Bidder's Product De	escription: 7Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0008B AS
159.	Bidder's Product De	escription: 8Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0009B AS
160.	Bidder's Product De	escription: 9Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0010B AS
161.	Bidder's Product Description: 10Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0020B AS
162.	Bidder's Product Description: 20Mbps Committed Information Rate with Basic CoS		
163.	EPL BASIC CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0030B AS

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 30Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0040B AS
164.	Bidder's Product D	escription: 40Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0050B AS
165.	Bidder's Product D	escription: 50Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0060B AS
166.	Bidder's Product D	escription: 60Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0070B AS
167.	Bidder's Product D	escription: 70Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0080B AS
168.	Bidder's Product D	escription: 80Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0090B AS
169.	Bidder's Product D	escription: 90Mbps Committed Information Rate with	Basic CoS
	EPL BASIC CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0100B AS
170.	Bidder's Product Description: 100Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0200B AS
171.	Bidder's Product Description: 200Mbps Committed Information Rate with Basic CoS		
172.	EPL BASIC CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0300B AS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 300Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0400B AS
173.	Bidder's Product D	escription: 400Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0500B AS
174.	Bidder's Product D	escription: 500Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0600B AS
175.	Bidder's Product D	escription: 600Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0700B AS
176.	Bidder's Product D	escription: 700Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0800B AS
177.	Bidder's Product D	escription: 800Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0900B AS
178.	Bidder's Product D	escription: 900Mbps Committed Information Rate wit	th Basic CoS
	EPL BASIC CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC1000B AS
179.	Bidder's Product Description: 1000Mbps Committed Information Rate with Basic CoS		
	EPL BASIC CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC2000B AS
180.	Bidder's Product D	escription: 2000Mbps Committed Information Rate w	rith Basic CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EPL BASIC CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC3000B AS
181.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC4000B AS
182.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC5000B AS
183.	Bidder's Product Do	escription: 5000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC6000B AS
184.	Bidder's Product Do	escription: 6000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC7000B AS
185.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC8000B AS
186.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith Basic CoS
	EPL BASIC CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC9000B AS
187.	Bidder's Product Description: 9000Mbps Committed Information Rate with Basic CoS		
188.	EPL BASIC CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC010G BAS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product De	escription: 10000Mbps Committed Information Rate	with Basic CoS



	Feature Name	Feature Description	Bidder's Product Identifier
	EPL BASIC CIR - 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC020G BAS
189.	Bidder's Product D	escription: 20Gbps Committed Information Rate with	BASIC CoS.
	EPL BASIC CIR - 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC030G BAS
190.	Bidder's Product D	escription: 30Gbps Committed Information Rate with	BASIC CoS.
	EPL BASIC CIR - 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC040G BAS
191.	Bidder's Product D	escription: 40Gbps Committed Information Rate with	BASIC CoS.
	EPL BASIC CIR - 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC050G BAS
192.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	BASIC CoS.
	EPL BASIC CIR - 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC060G BAS
193.	Bidder's Product D	escription: 60Gbps Committed Information Rate with	BASIC CoS.
	EPL BASIC CIR - 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC070G BAS
194.	Bidder's Product Description: 70Gbps Committed Information Rate with BASIC Cos.		
	EPL BASIC CIR - 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC080G BAS
195.	Bidder's Product Description: 80Gbps Committed Information Rate with BASIC CoS.		
196.	EPL BASIC CIR - 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC090G BAS



	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidder's Product De	Bidder's Product Description: 90Gbps Committed Information Rate with BASIC CoS.			
	EPL BASIC CIR - 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC100G BAS		
197.	Bidder's Product D	escription: 100Gbps Committed Information Rate wit	th BASIC CoS.		
EPL C	IR (PRIORITY CoS I	MAE)			
	EPL PRIORITY CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0001P RI		
198.	Bidder's Product De	escription: 1Mbps Committed Information Rate with	PRIORITY CoS		
	EPL PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0002P RI		
199.	Bidder's Product De	escription: 2Mbps Committed Information Rate with	PRIORITY CoS		
	EPL PRIORITY CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0003P RI		
200.	Bidder's Product Do	escription: 3Mbps Committed Information Rate with	PRIORITY CoS		
	EPL PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0004P RI		
201.	Bidder's Product Do	escription: 4Mbps Committed Information Rate with	PRIORITY CoS		
	EPL PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0005P RI		
202.	Bidder's Product D	escription: 5Mbps Committed Information Rate with	PRIORITY CoS		
203.	EPL PRIORITY CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0006P RI		

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 6Mbps Committed Information Rate with PRIORITY CoS		
	EPL PRIORITY CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0007P RI
204.	Bidder's Product De	escription: 7Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0008P RI
205.	Bidder's Product De	escription: 8Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0009P RI
206.	Bidder's Product De	escription: 9Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0010P RI
207.	Bidder's Product Do	escription: 10Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0020P RI
208.	Bidder's Product Do	escription: 20Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0030P RI
209.	Bidder's Product Description: 30Mbps Committed Information Rate with PRIORITY CoS		
	EPL PRIORITY CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0040P RI
210.	Bidder's Product De	escription: 40Mbps Committed Information Rate with	PRIORITY CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0050P RI
211.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0060P RI
212	Bidder's Product Do	escription: 60Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0070P RI
213.	Bidder's Product Do	escription: 70Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0080P RI
214.	Bidder's Product Do	escription: 80Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0090P RI
215.	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	PRIORITY CoS
	EPL PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0100P RI
216.	Bidder's Product Description: 100Mbps Committed Information Rate with PRIORITY CoS		
	EPL PRIORITY CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0200P RI
217.	Bidder's Product Description: 200Mbps Committed Information Rate with PRIORITY CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PRIORITY CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0300P RI
218.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PRIORITY
	EPL PRIORITY CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0400P RI
219.	Bidder's Product Do	escription: 400Mbps Committed Information Rate wi	th PRIORITY
	EPL PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0500P RI
220.	Bidder's Product Do	escription: 500Mbps Committed Information Rate with	th PRIORITY
	EPL PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0600P RI
221.	Bidder's Product Do	escription: 600Mbps Committed Information Rate wit	th PRIORITY
	EPL PRIORITY CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0700P RI
222.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wit	th PRIORITY
	EPL PRIORITY CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0800P RI
223.	Bidder's Product Description: 800Mbps Committed Information Rate with PRIORITY CoS		
224.	EPL PRIORITY CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0900P RI

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Do	escription: 900Mbps Committed Information Rate wi	th PRIORITY
	EPL PRIORITY CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC1000P RI
225.	Bidder's Product Do	escription: 1 000Mbps Committed Information Rate w	vith PRIORITY
	EPL PRIORITY CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC2000P RI
226.	Bidder's Product Do	escription: 2000Mbps Committed Information Rate w	vith PRIORITY
	EPL PRIORITY CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC3000P RI
227.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	vith PRIORITY
	EPL PRIORITY CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC4000P RI
228.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	ith PRIORITY
	EPL PRIORITY CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC5000P RI
229.	Bidder's Product Description: 5000Mbps Committed Information Rate with PRIORITY CoS		
	EPL PRIORITY CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC6000P RI
230.	Bidder's Product Description: 6000Mbps Committed Information Rate with PRIORITY CoS		



	Feature Name	Feature Description	Bidder's Product Identifier	
	EPL PRIORITY CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC7000P RI	
231.	Bidder's Product Description: 7000Mbps Committed Information Rate with PRIORITY CoS			
	EPL PRIORITY CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC8000P RI	
232.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith PRIORITY	
	EPL PRIORITY CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC9000P RI	
233.	Bidder's Product Description: 9000Mbps Committed Information Rate with PRIORITY CoS			
	EPL PRIORITY CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC010G PRI	
234.	Bidder's Product Do	escription: 10000Mbps Committed Information Rate	with PRIORITY	



	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PRIORITY CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC020G PRI
235.	Bidder's Product Do	escription: 20Gbps Committed Information Rate with	PRIORITY
	EPL PRIORITY CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC030G PRI
236.	Bidder's Product Docos.	escription: 30Gbps Committed Information Rate with	PRIORITY
	EPL PRIORITY CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC040G PRI
237.	Bidder's Product Docos.	escription: 40Gbps Committed Information Rate with	PRIORITY
	EPL PRIORITY CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC050G PRI
238.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	PRIORITY
	EPL PRIORITY CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC060G PRI
239.	Bidder's Product Docos.	escription: 60Gbps Committed Information Rate with	PRIORITY
	EPL PRIORITY CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC070G PRI
240.	Bidder's Product Description: 70Gbps Committed Information Rate with PRIORITY CoS.		
	EPL PRIORITY CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC080G PRI
241.	Bidder's Product Description: 80Gbps Committed Information Rate with PRIORITY CoS.		
242.	EPL PRIORITY CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC090G PRI



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 90Gbps Committed Information Rate with PRIORITY CoS.		
	EPL PRIORITY CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC100G PRI
243.	Bidder's Product D CoS.	escription: 100Gbps Committed Information Rate wit	th PRIORITY
EPL C	IR (PREMIUM CoS	MAE)	
	EPL PREMIUM CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0001P RE
244.	Bidder's Product D	escription: 1Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0002P RE
245.	Bidder's Product D	escription: 2Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0003P RE
246.	Bidder's Product D	escription: 3Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0004P RE
247.	Bidder's Product D	escription: 4Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0005P RE
248.	Bidder's Product Description: 5Mbps Committed Information Rate with PREMIUM CoS		
249.	EPL PREMIUM CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0006P RE

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 6Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0007P RE
250.	Bidder's Product De	escription: 7Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0008P RE
251.	Bidder's Product De	escription: 8Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0009P RE
252.	Bidder's Product De	escription: 9Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0010P RE
253.	Bidder's Product Do	escription: 10Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0020P RE
254.	Bidder's Product Do	escription: 20Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0030P RE
255.	Bidder's Product Description: 30Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0040P RE
256.	Bidder's Product De	escription: 40Mbps Committed Information Rate with	PREMIUM CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PREMIUM CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0050P RE
257.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0060P RE
258.	Bidder's Product Do	escription: 60Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0070P RE
259.	Bidder's Product Do	escription: 70Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0080P RE
260.	Bidder's Product Do	escription: 80Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0090P RE
261.	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	PREMIUM CoS
	EPL PREMIUM CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0100P RE
262.	Bidder's Product Description: 100Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0200P RE
263	Bidder's Product Description: 200Mbps Committed Information Rate with PREMIUM CoS		

			Bidder's Product
	Feature Name	Feature Description	Identifier
	EPL PREMIUM CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0300P RE
264.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PREMIUM
	EPL PREMIUM CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0400P RE
265.	Bidder's Product Do	escription: 400Mbps Committed Information Rate wit	th PREMIUM
	EPL PREMIUM CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0500P RE
266.	Bidder's Product Description: 500Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0600P RE
267.	Bidder's Product Description: 600Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0700P RE
268.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wit	th PREMIUM
	EPL PREMIUM CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0800P RE
269.	Bidder's Product Description: 800Mbps Committed Information Rate with PREMIUM CoS		
270.	EPL PREMIUM CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC0900P RE

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 900Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC1000P RE
271.	Bidder's Product Do	escription: 1000Mbps Committed Information Rate w	rith PREMIUM
	EPL PREMIUM CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC2000P RE
272.	Bidder's Product Do	escription: 2000Mbps Committed Information Rate w	rith PREMIUM
	EPL PREMIUM CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC3000P RE
273.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	rith PREMIUM
	EPL PREMIUM CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC4000P RE
274.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith PREMIUM
	EPL PREMIUM CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC5000P RE
275.	Bidder's Product Description: 5000Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC6000P RE
276.	Bidder's Product Do	escription: 6000Mbps Committed Information Rate w	rith PREMIUM



	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PREMIUM CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC7000P RE
277.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith PREMIUM
	EPL PREMIUM CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC8000P RE
278.	Bidder's Product Description: 8000Mbps Committed Information Rate with PREMIUM CoS		
	EPL PREMIUM CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC9000P RE
279.	Bidder's Product Description: 9000Mbps Committed Information Rate with PREMIUM CoS		
280.	EPL PREMIUM CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC010G PRE



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product D	escription: 10000Mbps Committed Information Rate	with PREMIUM
	EPL PREMIUM CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC020G PRE
281.	Bidder's Product D	escription: 20Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC030G PRE
282.	Bidder's Product D	escription: 30Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC040G PRE
283.	Bidder's Product D	escription: 40Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC050G PRE
284.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC060G PRE
285.	Bidder's Product Description: 60Gbps Committed Information Rate with PREMIUM CoS.		
	EPL PREMIUM CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC070G PRE
286.	Bidder's Product Description: 70Gbps Committed Information Rate with PREMIUM CoS.		

	Feature Name	Feature Description	Bidder's Product Identifier
	EPL PREMIUM CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC080G PRE
287.	Bidder's Product D	escription: 80Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC090G PRE
288.	Bidder's Product Do	escription: 90Gbps Committed Information Rate with	PREMIUM
	EPL PREMIUM CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EPLEVC100G PRE
289.	Bidder's Product D	escription: 100Gbps Committed Information Rate wit	h PREMIUM
Ethern	net Virtual Private L	ine (EVPL) MAE	
	EVPL MAE Service Connection Gigabit Ethernet (10 Gbps)	10000 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one (1) EVC and the NI.	EVPLUNI10G
290.	Bidders' Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 1 Gbps (1000BaseT or 1000BaseSX) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI.		
291.	EVPL MAE Service Connection 100 Gbps	100 Gbps Ethernet Port assessed per interface at bandwidths of 100 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.	EVPLUNI100G



	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidders' Product Description: The service provides bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 1 Gbps (10000BaseT or 10000BaseSX) Ethernet interface (UNI). The service enables customers to multiplex multiple services (EVCs) on a given UNI.				
EVPL	CIR (BASIC CoS MA	AE)			
	EVPL BASIC CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0001 BAS		
292.	Bidder's Product D	escription: 1Mbps Committed Information Rate with	Basic CoS		
	EVPL BASIC CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0002 BAS		
293.	Bidder's Product D	escription: 2Mbps Committed Information Rate with	Basic CoS		
	EVPL BASIC CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0003 BAS		
294.	Bidder's Product D	escription: 3Mbps Committed Information Rate with	Basic CoS		
	EVPL BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0004 BAS		
295.	Bidder's Product D	escription: 4Mbps Committed Information Rate with	Basic CoS		
	EVPL BASIC CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0005 BAS		
296.	Bidder's Product D	escription: 5Mbps Committed Information Rate with	Basic CoS		
	EVPL BASIC CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0006 BAS		
297.	97. Bidder's Product Description: 6Mbps Committed Information Rate with Basic				
	EVPL BASIC CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0007 BAS		
298.	Bidder's Product D	escription: 7Mbps Committed Information Rate with	Basic CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0008 BAS
299.	Bidder's Product Do	escription: 8Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0009 BAS
300.	Bidder's Product Do	escription: 9Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0010 BAS
301.	Bidder's Product Do	escription: 10Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0020 BAS
302.	Bidder's Product Do	escription: 20Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0030 BAS
303.	Bidder's Product Description: 30Mbps Committed Information Rate with Basic CoS		
	EVPL BASIC CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0040 BAS
304.	Bidder's Product Do	escription: 40Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0050 BAS
305.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0060 BAS
306.	Bidder's Product Description: 60Mbps Committed Information Rate with Basic CoS		
	EVPL BASIC CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0070 BAS
307.	Bidder's Product Do	escription: 70Mbps Committed Information Rate with	Basic CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL BASIC CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0080 BAS
308.	Bidder's Product Do	escription: 80Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0090 BAS
309.	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	Basic CoS
	EVPL BASIC CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0100 BAS
310.	Bidder's Product Do	escription: 100Mbps Committed Information Rate wit	th Basic CoS
	EVPL BASIC CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0200 BAS
311.	Bidder's Product Do	escription: 200Mbps Committed Information Rate wit	th Basic CoS
	EVPL BASIC CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0300 BAS
312.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th Basic CoS
	EVPL BASIC CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0400 BAS
313.	Bidder's Product Do	escription: 400Mbps Committed Information Rate wit	th Basic CoS
	EVPL BASIC CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0500 BAS
314.	Bidder's Product Do	escription: 500Mbps Committed Information Rate wit	th Basic CoS
	EVPL BASIC CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0600 BAS
315.	Bidder's Product Description: 600Mbps Committed Information Rate with Basic		
	EVPL BASIC CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0700 BAS
316.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wit	th Basic CoS

			Bidder's Product
	Feature Name	Feature Description	Identifier
	EVPL BASIC CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0800 BAS
317.	Bidder's Product De	escription: 800Mbps Committed Information Rate with	th Basic CoS
	EVPL BASIC CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0900 BAS
318.	Bidder's Product De	escription: 900Mbps Committed Information Rate wit	th Basic CoS
	EVPL BASIC CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC1000 BAS
319.	Bidder's Product De	escription: 1000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC2000 BAS
320.	Bidder's Product De	escription: 2000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC3000 BAS
321.	Bidder's Product De	escription: 3000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC4000 BAS
322.	Bidder's Product De	escription: 4000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC5000 BAS
323.	Bidder's Product Description: 5000Mbps Committed Information Rate with Basic CoS		
324.	EVPL BASIC CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC6000 BAS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Do	escription: 6000Mbps Committed Information Rate w	ith Basic CoS
	EVPL BASIC CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC7000 BAS
325.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC8000 BAS
326.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith Basic CoS
	EVPL BASIC CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC9000 BAS
327.	Bidder's Product Description: 9000Mbps Committed Information Rate with Basic CoS		
	EVPL BASIC CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC010 GBAS
328.	Bidder's Product Description: 10000Mbps Committed Information Rate with Basic CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL BASIC CIR - 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC020 GBAS
329.	Bidder's Product De	escription: 20Gbps Committed Information Rate with	BASIC CoS.
	EVPL BASIC CIR - 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC030 GBAS
330.	Bidder's Product D	escription: 30Gbps Committed Information Rate with	BASIC CoS.
	EVPL BASIC CIR - 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC040 GBAS
331.	Bidder's Product D	escription: 40Gbps Committed Information Rate with	BASIC CoS.
	EVPL BASIC CIR - 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC050 GBAS
332.	Bidder's Product D	escription: 50Gbps Committed Information Rate with	BASIC CoS.
	EVPL BASIC CIR - 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC060 GBAS
333.	Bidder's Product D	escription: 60Gbps Committed Information Rate with	BASIC CoS.
	EVPL BASIC CIR - 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC070 GBAS
334.	Bidder's Product Description: 70Gbps Committed Information Rate with BASIC Cos.		
	EVPL BASIC CIR - 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC080 GBAS
335.	Bidder's Product Description: 80Gbps Committed Information Rate with BASIC CoS.		
336.	EVPL BASIC CIR - 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC090 GBAS



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 90Gbps Committed Information Rate with BASIC CoS.		
	EVPL BASIC CIR - 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC100 GBAS
337.	Bidder's Product D	escription: 100Gbps Committed Information Rate wit	th BASIC CoS.
EVPL	CIR (PRIORITY Cos	S MAE)	
	EVPL PRIORITY CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0001 PRI
338.	Bidder's Product D	escription: 1Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0002 PRI
339.	Bidder's Product De	escription: 2Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0003 PRI
340.	Bidder's Product De	escription: 3Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0004 PRI
341.	Bidder's Product Do	escription: 4Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0005 PRI
342.	Bidder's Product De	escription: 5Mbps Committed Information Rate with	PRIORITY CoS
343.	EVPL PRIORITY CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0006 PRI

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 6Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0007 PRI
344.	Bidder's Product D	escription: 7Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0008 PRI
345.	Bidder's Product D	escription: 8Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0009 PRI
346.	Bidder's Product D	escription: 9Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0010 PRI
347.	Bidder's Product D	escription: 10Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0020 PRI
348.	Bidder's Product D	escription: 20Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0030 PRI
349.	Bidder's Product Description: 30Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0040 PRI
350.	Bidder's Product D	escription: 40Mbps Committed Information Rate with	PRIORITY CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0050 PRI
351.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0060 PRI
352.	Bidder's Product D	escription: 60Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0070 PRI
353.	Bidder's Product De	escription: 70Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0080 PRI
354.	Bidder's Product De	escription: 80Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0090 PRI
355.	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	PRIORITY CoS
	EVPL PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0100 PRI
356.	Bidder's Product Description: 100Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0200 PRI
357.	Bidder's Product Description: 200Mbps Committed Information Rate with PRIORITY CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL PRIORITY CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0300 PRI
358.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PRIORITY
	EVPL PRIORITY CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0400 PRI
359.	Bidder's Product Do	escription: 400Mbps Committed Information Rate wit	th PRIORITY
	EVPL PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0500 PRI
360.	Bidder's Product Do	escription: 500Mbps Committed Information Rate with	th PRIORITY
	EVPL PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0600 PRI
361.	Bidder's Product Do	escription: 600Mbps Committed Information Rate wi	th PRIORITY
	EVPL PRIORITY CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0700 PRI
362.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wi	th PRIORITY
	EVPL PRIORITY CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0800 PRI
363.	Bidder's Product Description: 800Mbps Committed Information Rate with PRIORITY CoS		
364.	EVPL PRIORITY CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0900 PRI



	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: 900Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC1000 PRI
365.	Bidder's Product Do	escription: 1000Mbps Committed Information Rate w	vith PRIORITY
	EVPL PRIORITY CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC2000 PRI
366.	Bidder's Product Do	escription: 2000Mbps Committed Information Rate w	vith PRIORITY
	EVPL PRIORITY CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC3000 PRI
367.	Bidder's Product Description: 3000Mbps Committed Information Rate with PRIORI		
	EVPL PRIORITY CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC4000 PRI
368.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith PRIORITY
	EVPL PRIORITY CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC5000 PRI
369.	Bidder's Product Description: 5000Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC6000 PRI
370.	Bidder's Product Description: 6000Mbps Committed Information Rate with PRIORITY CoS		



	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL PRIORITY CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC7000 PRI
371.	Bidder's Product Do	escription: 7000Mbps Committed Information Rate w	ith PRIORITY
	EVPL PRIORITY CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC8000 PRI
372.	Bidder's Product Description: 8000Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC9000 PRI
373.	Bidder's Product Description: 9000Mbps Committed Information Rate with PRIORITY CoS		
	EVPL PRIORITY CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC010 GPRI
374.	Bidder's Product Description: 10000Mbps Committed Information Rate with PRIORITY CoS		

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL PRIORITY CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC020 GPRI
375.	Bidder's Product D CoS.	escription: 20Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC030 GPRI
376.	Bidder's Product D CoS.	escription: 30Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC040 GPRI
377.	Bidder's Product D CoS.	escription: 40Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC050 GPRI
378.	Bidder's Product D CoS.	escription: 50Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC060 GPRI
379.	Bidder's Product D CoS.	escription: 60Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC070 GPRI
380.	Bidder's Product D CoS.	escription: 70Gbps Committed Information Rate with	PRIORITY
	EVPL PRIORITY CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC080 GPRI
381.	Bidder's Product Description: 80Gbps Committed Information Rate with PRIORITY CoS.		
382.	EVPL PRIORITY CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC090 GPRI



	Feature Name	Feature Description	Bidder's Product Identifier		
	Bidder's Product Do	Bidder's Product Description: 90Gbps Committed Information Rate with PRIORITY CoS.			
	EVPL PRIORITY CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC100 GPRI		
383.	Bidder's Product Do	escription: 100Gbps Committed Information Rate wit	th PRIORITY		
EVPL	CIR (PREMIUM CoS	S MAE)			
	EVPL PREMIUM CIR MAE - 1 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0001 PRE		
384.	Bidder's Product Do	escription: 1Mbps Committed Information Rate with	PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0002 PRE		
385.	Bidder's Product Do	escription: 2Mbps Committed Information Rate with	PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 3 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0003 PRE		
386.	Bidder's Product Do	escription: 3Mbps Committed Information Rate with	PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0004 PRE		
387.	Bidder's Product Do	escription: 4Mbps Committed Information Rate with	PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0005 PRE		
388.	Bidder's Product Description: 5Mbps Committed Information Rate with PREMIUM CoS				
389.	EVPL PREMIUM CIR MAE - 6 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0006 PRE		

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Do	escription: 6Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 7 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0007 PRE
390.	Bidder's Product Do	escription: 7Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0008 PRE
391.	Bidder's Product Do	escription: 8Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 9 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0009 PRE
392.	Bidder's Product Do	escription: 9Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0010 PRE
393.	Bidder's Product Do	escription: 10Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0020 PRE
394.	Bidder's Product Do	escription: 20Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 30 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0030 PRE
395.	Bidder's Product Description: 30Mbps Committed Information Rate with PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 40 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0040 PRE
396.	Bidder's Product Do	escription: 40Mbps Committed Information Rate with	PREMIUM CoS

	Feature Name	Feature Description	Bidder's Product Identifier
	EVPL PREMIUM CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0050 PRE
397.	Bidder's Product Do	escription: 50Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 60 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0060 PRE
398.	Bidder's Product Do	escription: 60Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 70 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0070 PRE
399.	Bidder's Product Do	escription: 70Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 80 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0080 PRE
400.	Bidder's Product Do	escription: 80Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 90 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0090 PRE
401.	Bidder's Product Do	escription: 90Mbps Committed Information Rate with	PREMIUM CoS
	EVPL PREMIUM CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0100 PRE
402.	Bidder's Product Description: 100Mbps Committed Information Rate with PREMIUM CoS		
	EVPL PREMIUM CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0200 PRE
403.	Bidder's Product Description: 200Mbps Committed Information Rate with PREMIUM CoS		

	Feature Name	Feature Name Feature Description	
	EVPL PREMIUM CIR MAE - 300 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0300 PRE
404.	Bidder's Product Do	escription: 300Mbps Committed Information Rate with	th PREMIUM
	EVPL PREMIUM CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0400 PRE
405.	Bidder's Product Do	escription: 400Mbps Committed Information Rate wit	th PREMIUM
	EVPL PREMIUM CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0500 PRE
406.	Bidder's Product Do	escription: 500Mbps Committed Information Rate wit	th PREMIUM
	EVPL PREMIUM CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0600 PRE
407.	Bidder's Product Do	escription: 600Mbps Committed Information Rate wi	th PREMIUM
	EVPL PREMIUM CIR MAE - 700 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0700 PRE
408.	Bidder's Product Do	escription: 700Mbps Committed Information Rate wi	th PREMIUM
	EVPL PREMIUM CIR MAE - 800 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0800 PRE
409.	Bidder's Product Do	escription: 800Mbps Committed Information Rate wi	th PREMIUM
410.	EVPL PREMIUM CIR MAE - 900 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC0900 PRE

	Feature Name	Feature Description	Bidder's Product Identifier			
	Bidder's Product Do	escription: 900Mbps Committed Information Rate with	th PREMIUM			
	EVPL PREMIUM CIR MAE - 1000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC1000 PRE			
411.	Bidder's Product Description: 1000Mbps Committed Information Rate with F					
	EVPL PREMIUM CIR MAE - 2000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC2000 PRE			
412.	Bidder's Product Do	escription: 2000Mbps Committed Information Rate w	rith PREMIUM			
	EVPL PREMIUM CIR MAE - 3000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC3000 PRE			
413.	Bidder's Product Do	escription: 3000Mbps Committed Information Rate w	rith PREMIUM			
	EVPL PREMIUM CIR MAE - 4000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC4000 PRE			
414.	Bidder's Product Do	escription: 4000Mbps Committed Information Rate w	rith PREMIUM			
	EVPL PREMIUM CIR MAE - 5000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC5000 PRE			
415.	Bidder's Product Do	escription: 5000Mbps Committed Information Rate w	rith PREMIUM			
	EVPL PREMIUM CIR MAE - 6000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC6000 PRE			
416.	Bidder's Product Description: 6000Mbps Committed Information Rate with PREMIUM CoS					



	Feature Name	Feature Description	Bidder's Product Identifier		
	EVPL PREMIUM CIR MAE - 7000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC7000 PRE		
417.	Bidder's Product Do	rith PREMIUM			
	EVPL PREMIUM CIR MAE - 8000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC8000 PRE		
418.	Bidder's Product Do	escription: 8000Mbps Committed Information Rate w	rith PREMIUM		
	EVPL PREMIUM CIR MAE - 9000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC9000 PRE		
419.	Bidder's Product Description: 9000Mbps Committed Information Rate with PREMIUM CoS				
420.	EVPL PREMIUM CIR MAE - 10000 Mbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC010 GPRE		



	Feature Name	·				
	Bidder's Product D CoS	escription: 10000Mbps Committed Information Rate	with PREMIUM			
421.	EVPL PREMIUM CIR – 20 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC020 GPRE			
	Bidder's Product D CoS.	escription: 20Gbps Committed Information Rate with	PREMIUM			
422.	EVPL PREMIUM CIR – 30 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC030 GPRE			
722.	Bidder's Product D CoS.	Bidder's Product Description: 30Gbps Committed Information Rate with PREMIUM CoS.				
423.	EVPL PREMIUM CIR – 40 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC040 GPRE			
723.	Bidder's Product Description: 40Gbps Committed Information Rate with PREMIUM CoS.					
424.	EVPL PREMIUM CIR – 50 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC050 GPRE			
727.	Bidder's Product Description: 50Gbps Committed Information Rate with PREMIUM CoS.					
425.	EVPL PREMIUM CIR – 60 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC060 GPRE			
423.	Bidder's Product Description: 60Gbps Committed Information Rate with PREMIUM CoS.					
426.	EVPL PREMIUM CIR – 70 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC070 GPRE			
420.	Bidder's Product Description: 70Gbps Committed Information Rate with PREMIUM CoS.					
427.	EVPL PREMIUM CIR – 80 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC080 GPRE			
4 21.	Bidder's Product D CoS.	escription: 80Gbps Committed Information Rate with	PREMIUM			



	Feature Name	Feature Description	Bidder's Product Identifier		
428.	EVPL PREMIUM CIR – 90 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC090 GPRE		
0.	Bidder's Product Description: 90Gbps Committed Information Rate with PREMIUM CoS.				
429.	EVPL PREMIUM CIR – 100 Gbps	The guaranteed average bandwidth of the virtual circuit.	EVPLEVC100 GPRE		
•.	Bidder's Product Description: 100Gbps Committed Information Rate with PREMIUM CoS.				

3.2.1.7 MAE Service Geographic Requirements

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

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

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

		EPL MAE Service Connections			
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
10	Anaheim	Х	Х	Х	Х
11	Anderson				
12	Angels Camp	X	Х	Х	Х
13	Antioch	Х	X	Х	Х
14	Apple Valley	Х	X	Х	Х
15	Arcadia	Х	X	Х	Х
16	Arcata				
17	Arroyo Grande				
18	Artesia	Х	Х	Х	Х
19	Arvin				
20	Atascadero				
21	Atherton	Х	Х	Х	Х
22	Atwater	Х	Х	Х	Х
23	Auburn	Х	Х	Х	Х
24	Avalon				
25	Avenal				
26	Azusa	Х	Х	Х	Х
27	Bakersfield				
28	Baldwin Park	Х	Х	Х	Х
29	Banning	Х	Х	Х	Х
30	Barstow	Х	Х	Х	Х
31	Beaumont	Х	Х	Х	Х
32	Bell	Х	Х	Х	Х
33	Bell Gardens				
34	Bellflower	Х	Х	Х	Х
35	Belmont	Х	Х	Х	Х
36	Belvedere	Х	Х	Х	Х
37	Benicia	Х	Х	Х	Х
38	Berkeley	Х	Х	Х	Х
39	Beverly Hills	Х	Х	Х	Х

		EPL MAE Service Connections			AE Service nections
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
40	Big Bear Lake	Х	Х	Х	Х
41	Biggs	Х	X	Х	Х
42	Bishop	X	Х	X	Х
43	Blue Lake	X	X	X	Х
44	Blythe	Х	Х	Х	Х
45	Bradbury				
46	Brawley				
47	Brea	Х	Х	Х	Х
48	Brentwood	Х	Х	Х	Х
49	Brisbane	Х	Х	Х	Х
50	Buellton	Х	Х	Х	Х
51	Buena Park	Х	Х	Х	Х
52	Burbank	Х	Х	Х	Х
53	Burlingame	Х	Х	Х	Х
54	Calabasas	Х	Х	Х	Х
55	Calexico	Х	Х	Х	Х
56	California City				
57	Calimesa	Х	Х	Х	Х
58	Calipatria				
59	Calistoga				
60	Camarillo	Х	Х	Х	Х
61	Campbell	Х	Х	Х	Х
62	Canyon Lake				
63	Capitola	Х	Х	Х	Х
64	Carlsbad	Х	Х	Х	Х
65	Carmel-By-The- Sea				
66	Carpinteria				
67	Carson	Х	Х	Х	Х
68	Cathedral City	Х	Х	Х	Х
69	Ceres	Х	Х	Х	Х

		EPL MAE Service Connections		ce EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
70	Cerritos	X	Х	X	Χ
71	Chico	Χ	Х	X	X
72	Chino	X	Х	X	Χ
73	Chino Hills	X	Х	X	Х
74	Chowchilla	Х	X	X	Х
75	Chula Vista	Х	X	X	Х
76	Citrus Heights				
77	Claremont	Х	Х	Х	Х
78	Clayton	Х	Х	Х	Х
79	Clearlake				
80	Cloverdale	Х	Х	Х	Х
81	Coachella	Х	Х	Х	Х
82	Coalinga	Х	Х	Х	Х
83	Colfax				
84	Colma	Х	Х	Х	Х
85	Colton	Х	Х	Х	Х
86	Colusa	Х	Х	Х	Х
87	Commerce				
88	Compton	Х	Х	Х	Х
89	Concord	Х	Х	Х	Х
90	Corcoran	Х	Х	Х	Х
91	Corning	Х	Х	Х	Х
92	Corona	Х	Х	Х	Х
93	Coronado	Х	Х	Х	Х
94	Corte Madera				
95	Costa Mesa	Х	Х	Х	Х
96	Cotati	Х	Х	Х	Х
97	Covina	Х	Х	Х	Х
98	Crescent City				
99	Cudahy				

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

		EPL MAE Service Connections		EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
130	Escalon	Х	Х	Х	Х
131	Escondido	X	Х	Х	X
132	Etna				
133	Eureka				
134	Exeter				
135	Fairfax	Х	X	X	Х
136	Fairfield	X	X	X	Х
137	Farmersville				
138	Ferndale				
139	Fillmore				
140	Firebaugh	Х	Х	Х	Х
141	Folsom	Х	Х	Х	Х
142	Fontana	Х	Х	Х	Х
143	Fort Bragg	Х	Х	Х	Х
144	Fort Jones				
145	Fortuna				
146	Foster City	Х	Х	Х	Х
147	Fountain Valley	Х	Х	Х	Х
148	Fowler	Х	Х	Х	Х
149	Fremont	Х	Х	Х	Х
150	Fresno	Х	Х	Х	Х
151	Fullerton	Х	Х	Х	Х
152	Galt	Х	Х	Х	Х
153	Garden Grove	Х	Х	Х	Х
154	Gardena	Х	Х	Х	Х
155	Gilroy				
156	Glendale	Х	Х	Х	Х
157	Glendora	Х	Х	Х	Х
158	Goleta	Х	Х	Х	Х
159	Gonzales				

		EPL MAE Service Connections				
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps	
160	Grand Terrace	Χ	Х	X	X	
161	Grass Valley	X	Х	Х	X	
162	Greenfield					
163	Gridley	X	Х	Х	X	
164	Grover Beach					
165	Guadalupe					
166	Gustine	Х	Х	X	Х	
167	Half Moon Bay	Х	X	X	Х	
168	Hanford	Х	X	X	Х	
169	Hawaiian Gardens	Х	X	X	Х	
170	Hawthorne	Х	X	X	Х	
171	Hayward	Х	X	X	Х	
172	Healdsburg	X	X	X	Х	
173	Hemet	X	X	X	Х	
174	Hercules	X	X	X	Х	
175	Hermosa Beach	Х	X	X	Х	
176	Hesperia	Х	X	X	Х	
177	Hidden Hills					
178	Highland	Х	Х	Х	Х	
179	Hillsborough	Х	Х	Х	Х	
180	Hollister					
181	Holtville					
182	Hughson	X	X	X	Х	
183	Humboldt					
184	Huntington Beach	Х	Х	Х	Х	
185	Huntington Park	Х	Х	Х	X	
186	Huron	Х	Х	Х	X	
187	Imperial					
188	Imperial Beach	Х	Х	Х	Х	
189	Indian Wells	Х	Х	Х	Х	

		EPL MAE Service Connections		EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
190	Indio	Х	Х	Х	Х
191	Industry				
192	Inglewood	Х	Х	Х	Х
193	Inyo				
194	Ione				
195	Irvine	Х	Х	Х	Χ
196	Irwindale				
197	Isleton	Х	Х	Х	Х
198	Jackson	Х	Х	Х	Х
199	Kerman	Х	Х	Х	Х
200	Kern				
201	King City				
202	Kings				
203	Kingsburg	Х	Х	Х	Х
204	La Canada Flintridge				
205	La Habra	Х	Х	Х	Х
206	La Habra Heights				
207	La Mesa	Х	Х	Х	Х
208	La Mirada	Х	Х	Х	Х
209	La Palma	Х	Х	Х	Х
210	La Puente	Х	Х	Х	Х
211	La Quinta	Х	Х	Х	Х
212	La Verne	Х	Х	Х	Х
213	Lafayette	Х	Х	Х	Х
214	Laguna Beach	Х	Х	Х	Х
215	Laguna Hills	Х	Х	Х	Х
216	Laguna Niguel	Х	Х	Х	Х
217	Laguna Woods	Х	Х	Х	Х
218	Lake				
219	Lake Elsinore	Х	Х	Х	Х

			E Service ections		AE Service nections
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
220	Lake Forest	Χ	Х	Х	X
221	Lakeport				
222	Lakewood	X	Х	X	Х
223	Lancaster	X	Х	Х	X
224	Larkspur	X	Х	Х	X
225	Lassen				
226	Lathrop	Х	Х	Х	Х
227	Lawndale	Х	Х	X	Х
228	Lemon Grove	Х	Х	X	Х
229	Lemoore	Х	Х	Х	Х
230	Lincoln	Х	Х	X	Х
231	Lindsay				
232	Live Oak	Х	Х	Х	Х
233	Livermore	Х	Х	Х	Х
234	Livingston				
235	Lodi	Х	Х	Х	Χ
236	Loma Linda	Х	Х	Х	Х
237	Lomita	Х	X	X	Х
238	Lompoc	Х	X	X	Х
239	Long Beach	Х	X	X	Х
240	Loomis				
241	Los Alamitos	Х	X	X	Х
242	Los Altos	Х	Х	Х	Х
243	Los Altos Hills	Х	Х	Х	Х
244	Los Angeles	Х	Х	X	Х
245	Los Banos	Х	Х	Х	Х
246	Los Gatos	Х	Х	Х	Х
247	Loyalton				
248	Lynwood	Х	Х	Х	Х
249	Madera	X	Х	X	X

		EPL MAE Service Connections			AE Service nections
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
250	Malibu	X	Х	X	X
251	Mammoth Lakes				
252	Manhattan Beach	Х	X	Х	Х
253	Manteca	Х	Х	X	X
254	Maricopa				
255	Marina	X	Х	X	X
256	Martinez	Χ	Х	Х	Х
257	Marysville	Х	Х	X	Х
258	Maywood	Х	Х	X	Х
259	Mcfarland				
260	Mendota	Х	X	X	Х
261	Menlo Park	Х	X	X	Х
262	Merced	Х	Х	Х	Х
263	Mill Valley	Х	Х	Х	Х
264	Millbrae	Х	Х	Х	Х
265	Milpitas	Х	Х	Х	Х
266	Mission Viejo	Х	Х	Х	Х
267	Modesto	Х	Х	Х	Х
268	Monrovia	Х	Х	Х	Х
269	Montague				
270	Montclair	Х	Х	Х	Х
271	Monte Sereno	Х	Х	Х	Х
272	Montebello	Х	Х	Х	Х
273	Monterey	Х	Х	Х	Х
274	Monterey Park	Х	Х	Х	Х
275	Moorpark	Х	Х	Х	Х
276	Moraga	Х	Х	Х	Х
277	Moreno Valley	Х	Х	Х	Х
278	Morgan Hill	Х	Х	Х	Х
279	Morro Bay				

			E Service ections	EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
280	Mount Shasta				
281	Mountain View	Х	Х	Х	Х
282	Murrieta	Х	Х	Х	Х
283	Napa	X	X	Х	Χ
284	National City	X	X	Х	Χ
285	Needles				
286	Nevada City				
287	Newark	Х	Х	Х	Х
288	Newman	Х	Х	Х	Х
289	Newport Beach	Х	Х	Х	Х
290	Norco	Х	Х	Х	Х
291	Norwalk	Х	Х	Х	Х
292	Novato	Х	Х	Х	Х
293	Oakdale	Х	Х	Х	Х
294	Oakland	Х	Х	Х	Х
295	Oakley	Х	Х	Х	Х
296	Oceanside	Х	Х	Х	Х
297	Ojai	Х	Х	Х	Х
298	Ontario	Х	Х	Х	Х
299	Orange	Х	Х	Х	Х
300	Orange Cove				
301	Orinda	Х	Х	Х	Х
302	Orland	Х	Х	Х	Х
303	Oroville	Х	Х	Х	Х
304	Oxnard	Х	Х	Х	Х
305	Pacific Grove	Х	Х	Х	Х
306	Pacifica	Х	Х	Х	Х
307	Palm Desert	Х	Х	Х	Х
308	Palm Springs	Х	Х	Х	Х
309	Palmdale	Х	Х	Х	Х

			E Service ections		AE Service nections
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
310	Palo Alto	X	Х	X	Х
311	Palos Verdes Estates				
312	Paradise	Х	X	X	Х
313	Paramount	Χ	X	X	Х
314	Parlier	Х	X	X	Х
315	Pasadena	Х	X	X	Х
316	Patterson	X	X	X	Х
317	Perris	Х	Х	Х	Х
318	Petaluma	Х	Х	Х	Х
319	Pico Rivera	Х	Х	Х	Х
320	Piedmont	Х	Х	Х	X X
321	Pinole	Х	Х	Х	
322	Pismo Beach				
323	Pittsburg	Х	Х	Х	X X
324	Placentia	Х	Х	Х	
325	Placerville	Х	Х	Х	Х
326	Pleasant Hill	Х	Х	Х	Х
327	Pleasanton	Х	Х	Х	Х
328	Plymouth	Х	Х	Х	Х
329	Point Arena				
330	Pomona	Х	Х	Х	Х
331	Port Hueneme	Х	Х	Х	Х
332	Porterville				
333	Portola				
334	Portola Valley	Х	Х	Х	X
335	Poway	Х	Х	Х	Х
336	Rancho Cordova	Х	Х	Х	Х
337	Rancho Cucamonga	Х	Х	Х	Х
338	Rancho Mirage	Х	Х	Х	Х

		EPL MAE Service Connections		EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
339	Rancho Palos Verdes	Х	X	Х	Х
340	Rancho Santa Margarita	Х	Х	Х	×
341	Red Bluff				
342	Redding				
343	Redlands	Х	Х	Х	Х
344	Redondo Beach	Х	Х	Х	Х
345	Redwood City	Х	Х	Х	Х
346	Reedley	Х	Х	Х	Х
347	Rialto	Х	Х	Х	Х
348	Richmond	Х	Х	Х	Х
349	Ridgecrest				
350	Rio Dell				
351	Rio Vista	Х	Х	Х	Х
352	Ripon				
353	Riverbank	X	X	X	Х
354	Riverside	Х	Х	Х	Х
355	Rocklin				
356	Rohnert Park	X	X	X	Х
357	Rolling Hills				
358	Rolling Hills Estates				
359	Rosemead				
360	Roseville	Х	Х	Х	Х
361	Ross	Х	Х	Х	Х
362	Sacramento	Х	Х	Х	Х
363	Salinas	Х	Х	Х	Х
364	San Anselmo	Х	Х	Х	Х
365	San Bernardino	Х	Х	Х	Х
366	San Bruno				

			E Service ections	EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
367	San Buenaventura				
368	San Carlos	Х	X	Х	Х
369	San Clemente	X	X	Х	Х
370	San Diego	X	Х	Х	X
371	San Dimas	X	Х	Х	Χ
372	San Fernando	Х	X	Х	Х
373	San Francisco	Х	X	Х	Х
374	San Gabriel	X	X	Х	Х
375	San Jacinto	X	X	Х	Х
376	San Joaquin				
377	San Jose	Х	Х	Х	Х
378	San Juan Bautista				
379	San Juan Capistrano	Х	Х	Х	X
380	San Leandro	Χ	X	Х	Х
381	San Luis Obispo				
382	San Marcos	Х	X	Х	Х
383	San Marino				
384	San Mateo	X	X	Х	Х
385	San Pablo	Х	Х	Х	Χ
386	San Rafael	Х	Х	Х	Х
387	San Ramon	Х	Х	Х	Х
388	Sand City	Х	Х	Х	Х
389	Sanger	Х	Х	Х	Х
390	Santa Ana	Х	Х	Х	Х
391	Santa Barbara	Х	Х	Х	Х
392	Santa Clara	Х	Х	Х	Х
393	Santa Clarita	Х	Х	Х	Х
394	Santa Cruz	Х	Х	Х	Х
395	Santa Fe Springs	Х	Х	Х	Х
396	Santa Maria	Х	Х	Х	Х

		EPL MAE Service Connections		EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
397	Santa Monica	Х	Х	Х	Χ
398	Santa Paula	X	Х	Х	X
399	Santa Rosa	Х	Х	Х	Х
400	Santee	Х	Х	Х	X
401	Saratoga	Х	Х	X	Х
402	Sausalito	X	X	Х	Х
403	Scotts Valley	Х	Х	Х	Х
404	Seal Beach	Х	Х	Х	Х
405	Seaside	Х	Х	Х	Х
406	Sebastopol	Х	Х	Х	Х
407	Selma	Х	Х	Х	Х
408	Shafter				
409	Shasta Lake				
410	Sierra Madre	Х	Х	Х	Х
411	Signal Hill	Х	Х	Х	Х
412	Simi Valley	Х	Х	Х	Х
413	Solana Beach	Х	Х	Х	Х
414	Soledad				
415	Solvang	Х	Х	Х	Х
416	Sonoma	Х	Х	Х	Х
417	Sonora	Х	Х	Х	Х
418	South El Monte	Х	Х	Х	Х
419	South Gate	Х	Х	Х	Х
420	South Lake Tahoe				

		EPL MAE Service Connections		EVPL MAE Service Connections		
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps	
421	South Pasadena	Х	X	X	X	
422	South San Francisco	Х	Х	Х	Х	
423	St Helena					
424	Stanton	Х	Х	Х	Х	
425	Stockton	Х	Х	Х	Х	
426	Suisun City	Х	Х	Х	Х	
427	Sunnyvale	Х	Х	Х	Х	
428	Susanville					
429	Sutter Creek					
430	Taft					
431	Tehachapi					
432	Tehama					
433	Temecula	Х	Х	Х	Х	
434	Temple City					
435	Thousand Oaks	Х	Х	Х	Х	
436	Tiburon	Х	Х	Х	Х	
437	Torrance X X	ance X X	X X	Х	Х	
438	Tracy	Х	Х	Х	Х	
439	Trinidad					
440	Truckee					
441	Tulare	Х	Х	Х	Х	
442	Tulelake					
443	Turlock	Х	Х	Х	Х	

			E Service ections	EVPL MAE Service Connections	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
444	Tustin	Х	Х	Х	Х
445	Twentynine Palms				
446	Ukiah	Х	Х	Х	Х
447	Union City	Х	Х	Х	Х
448	Upland	Х	Х	Х	Х
449	Vacaville	Х	Х	Х	Х
450	Vallejo	Х	Х	Х	Х
451	Vernon	Х	Х	Х	X X
452	Victorville	Х	Х	Х	
453	Villa Park	Х	Х	Х	Х
454	Visalia	Х	Х	Х	Х
455	Vista	Х	Х	Х	Х
456	Walnut	Х	Х	Х	Х
457	Walnut Creek	Х	Х	Х	Х
458	Wasco				
459	Waterford	Х	Х	Х	Х
460	Watsonville	Х	Х	Х	Х
461	Weed				
462	West Covina	Х	Х	Х	Х
463	West Hollywood	Х	Х	Х	Х
464	West Los Angeles				
465	West Sacramento	Х	Х	Х	Х
466	Westlake Village	Х	Х	Х	Х

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

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



If Bidder is unable to identify all service areas within Table 3.2.1.7.a, Bidder shall provide additional information in the form of a coverage map that includes unincorporated areas.

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

		EPL MAE Connec		EVPLMAE Conne	
	Service Location	10/100 Mbps	1 Gbps	10/100 Mbps	1 Gbps
1					
2					
3					
4					
5					
6					
7					
8					
9					_
10					

3.3 NETWORK DISASTER/OPERATIONAL RECOVERY

3.3.1 TELECOMMUNICATIONS SERVICE PRIORITY (TSP) PROGRAM

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____

3.3.2 DATA NETWORK DISASTER/OPERATIONAL RECOVERY

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

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

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____



3.4 OTHER SERVICES

3.4.1 HOURLY RATES FOR SERVICES

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

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

3.4.2 EXTENDED DEMARCATION WIRING SERVICES

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

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

Extended Demarc wiring is limited to the following:

- 1. Installation of cabling for extending services from the MPOE location to the Customer's point of utilization;
- 2. Installation of cross-connects or rearrangement of existing jumpers;
- 3. Identification and testing of existing cabling beyond the MPOE to the Customer's equipment location; or,
- 4. Testing, trouble shooting, labeling and completing documentation.

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

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

- 1. The wire/cable pathway is blocked and cannot be cleared in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;
- 2. The wire/cable pathway is in an asbestos environment or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,



Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by CALNET 3 CMO.

Bidder shall provide a price in the Cost Worksheets for all labor and materials required for Extended Demarc wiring necessary to complete the provisioning of one (1) Demarc extension as described above. Bidder shall provide one (1) price for each media identified.

The Contractor shall install wiring according to industry standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, Uniform Building Cabling/Wiring current at the time of this IFB and as periodically updated by CALNET 3 CMO. Additionally, the Contractor shall install and maintain all wiring in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

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

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

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

Table 3.4.2.a Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	Extended Demarcation – Copper four- Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		NSX0003
		Description: As standard practice, Comcast way to the customer's point of utilization instead			



	Feature Name	Feature Description	Mee	der ts or eds? N	Bidder's Product Identifier
2	Extended Demarcation – Copper four- Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		NSX0004
	Bidder's Product Description: As standard practice, Comcast will deliver the service with CPE directly to the customer's point of utilization instead of the MPOE.				
3	Extended Demarcation – Copper four- Pair – Sundays and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		NSX0005
	Bidder's Product Description: As standard practice, Comcast will deliver the service with CPE directly to the customer's point of utilization instead of the MPOE.				



	Feature Name	Feature Description	Mee	der ts or eds? N	Bidder's Product Identifier	
4	Extended Demarcation – Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Y		NSX0006	
	Bidder's Product Description: As standard practice, Comcast will deliver the service with CPE directly to the customer's point of utilization instead of the MPOE.					
5	Extended Demarcation – Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Υ		NSX0007	
		Description: As standard practice, Comcast way to the customer's point of utilization instead				



	Feature Name	Feature Description		der ts or eds? N	Bidder's Product Identifier		
6	Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Y		NSX0008		
	Bidder's Product Description: As standard practice, Comcast will deliver the service with CPE directly to the customer's point of utilization instead of the MPOE.						
7	Extended Demarcation – Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		NSX0009		
		Description: As standard practice, Comcast way to the customer's point of utilization instead					



	Feature Name	Feature Description	Mee	der ts or eds? N	Bidder's Product Identifier
8	Extended Demarcation – Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		NSX0010
	Bidder's Product Description: As standard practice, Comcast will deliver the service with CPE directly to the customer's point of utilization instead of the MPOE.				
9	Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		NSX0011
		Description: As standard practice, Comcast way to the customer's point of utilization instead			

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



Table 3.4.2.b Unsolicited Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder's Product Identifier
1	Bidder's Product Desc	cription:	
2	Bidder's Product Description:		
3	Bidder's Product Description:		

3.4.3 SERVICES RELATED HOURLY SUPPORT

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractors responsibilities Work performed under this Section 3.4.3 is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

In Cost Worksheet 3.4.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten (10) hours per dispatch/occurrence.

Bidder understands the Requirement and shall meet or exceed it? Yes	X 1	Vo
---	------------	----



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

Table 3.4.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Mee	lder ts or eds? N	Bidder's Product Identifier	
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		NSX0012	
	Bidder's Product Description: Regular hours for Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.					
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Υ		NSX0013	
	Bidder's Product Description: Overtime hours for Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.					
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		NSX0014	
	Bidder's Product Description: Sunday and Holiday hours for Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.					

3.5 SERVICE LEVEL AGREEMENTS (SLA)

The Contractor shall provide Service Level Agreements (SLAs) as defined below. The intent of this section is to provide Customers, CALNET 3 CMO and the Contractor with requirements that define and assist in the management of the SLAs. This section includes the SLA formats, general requirements, stop clock conditions, and the Technical SLAs for the services identified in this solicitation.



3.5.1 SERVICE LEVEL AGREEMENT FORMAT

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

- 1. SLA Name Each SLA Name must be unique;
- 2. Definition Describes what performance metric will be measured;
- Measurements Process Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details shall include source of data and define the points of measurement within the system, application, or network;
- 4. Service(s) All applicable Categories or Subcategories will be listed in each SLA;
- 5. Objective(s) Defines the SLA performance goal/parameters; and,
- 6. Rights and Remedies
 - a. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
 - b. Monthly Aggregated Measurements: Rights and remedies are paid once during the bill cycle based on an aggregate of events over a defined period of time.

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

Bidder understands the Requirement and shall meet or exceed it? Yes_	X	No
Biador andorolando lino regamemente ana onam mece er execced il: 100_		, , , ,

3.5.2 TECHNICAL REQUIREMENTS VERSUS SLA OBJECTIVES

Sections 3.2 (Ethernet Services), 3.3 (Network Disaster/Operational Recovery) and 3.4 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

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

Diddor understands the Dequirement and shall most or evered it? Ves	V	Ma
Bidder understands the Requirement and shall meet or exceed it? Yes	^	110

3.5.3 TWO METHODS OF OUTAGE REPORTING: CUSTOMER OR CONTRACTOR

There are two (2) methods in which CALNET 3 service failures or quality of service issues may be reported and Contractor trouble tickets opened: Customer reported or Contractor reported.



The first method of outage reporting results from a Customer reporting service trouble to the Contractor's Customer Service Center via phone call or opening of a trouble ticket using the online Trouble Ticket Reporting Tool (IFB STPD 12-001-B Refresh Business Requirements Section B.9.4).

The second method of outage reporting occurs when the Contractor opens a trouble ticket as a result of network/system alarm or other method of service failure identification. In each instance the Contractor shall open a trouble ticket using the Trouble Ticket Reporting Tool (IFB STPD 12-001-B Refresh Business Requirements Section B.9.4) and monitor and report to Customer until service is restored.

Bidder understands the Requirement and shall meet or exceed it? Yes_X___ No____

3.5.4 BIDDER RESPONSE TO SERVICE LEVEL AGREEMENTS

Many of the Service Level Agreements described below include multiple objective levels – Basic, Standard and Premier. Bidders shall indicate one (1) specific objective level they are committing to for each service in space provided in the "Objective" section of each SLA description.

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

3.5.5 CONTRACTOR SLA MANAGEMENT PLAN

Within 90 calendar days of Contract award, the Contractor shall provide CALNET 3 CMO with a detailed SLA Management Plan that describes how the Contractor will manage the Technical SLAs for services in this IFB. The SLA Management plan shall provide processes and procedures to be implemented by the Contractor. The SLA Management Plan shall define the following:

- 1. Contractor SLA Manager and supporting staff responsibilities;
- Contractor's process for measuring objectives for each SLA. The process shall explain how
 the Contractor will continuously monitor and measure SLA performance to ensure
 compliance. The Contractor shall provide details describing how and what will be measured.
 Details should include source of data and define the points of measurement within the
 system, application, or network;
- 3. Creation and delivery of SLA Reports (IFB STPD 12-001-B Refresh Business Requirements Section B.9.5). The Contractor shall include a sample report in accordance with IFB STPD 12-001-B Refresh Business Requirements Section B.9.5 (SLA Reports) for the following: SLA Service Performance Report (IFB STPD 12-001-B Refresh Business Requirements Section B.9.5.1), SLA Provisioning Report (IFB STPD 12-001-B Refresh Business Requirements Section B.9.5.2), and SLA Catastrophic Outage Reports (IFB STPD 12-001-B Refresh Business Requirements Section B.9.5.3). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET 3 CMO via the Private Oversight Website (IFB STPD 12-001-B Refresh Business Requirements Section B.9.2);
- 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 3 CMO; and,
- Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for Customer and CALNET 3 CMO.

Bidder understands the Red	quirement and shall meet or exceed it?	Yes X	No
----------------------------	--	-------	----

3.5.6 TECHNICAL SLA GENERAL REQUIREMENTS

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

- With the exception of the Provisioning SLA, the total SLA rights and remedies for any given month shall not exceed the sum of 100 percent of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
- If a circuit or service fails to meet one (1) or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
- 3. The Contractor shall apply CALNET 3 SLAs and remedies for services provided by Subcontractors and/or Affiliates;
- 4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA;
- 5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges;
- 6. The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives;
- 7. The Contractor shall proactively credit all rights and remedies to the Customer within 60 calendar days of the trouble resolution date on the trouble ticket or within 60 calendar days of the Due Date on the Service Request for the Provisioning SLA;
- 8. To the extent that Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), The State will be entitled to the same rights and/or remedies therein. The Contractor shall present the SLAs to CALNET 3 CMO for possible inclusion via amendments;
- 9. The Contractor shall apply CALNET 3 SLAs and remedies to services provided in all areas the Contractor provides service and/or open to competition (as defined by the CPUC). Any SLAs and remedies negotiated between Contractor and Incumbent Local Exchange Carriers in territories closed to competition shall be passed through to the CALNET 3 Customer:



- 10. The election by CALNET 3 CMO of any SLA remedy covered by this Contract shall not exclude or limit CALNET 3 CMO's or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
- 11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
- 12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;
- 13. The Customer Escalation Process (IFB STPD 12-001-B Refresh Business Requirements Section B.3.4.2) and/or the CALNET 3 CMO Escalation Process (IFB STPD 12-001-B Refresh Business Requirements Section B.3.4.1) shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
- 14. Trouble reporting and restoration shall be provided 24x365 for CALNET 3 services;
- 15. SLAs apply 24x365 unless SLA specifies an exception;
- 16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with IFB STPD 12-001-B Refresh Business Requirements Section B.5.1 (Billing and Invoicing Requirements, #14);
- 17. The Contractor shall provide a CALNET 3 SLA Manager responsible for CALNET 3 SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET 3 CMO SLA oversight, report issues, and problem resolution concerns. The CALNET 3 SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution:
- 18. The Contractor shall provide Customer and CALNET 3 CMO support for SLA inquiries and issue resolution; and,
- 19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET 3 Customer.

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

3.5.7 TROUBLE TICKET STOP CLOCK CONDITIONS

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

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

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

Table 3.5.7 – Stop Clock Conditions (SCC)

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

#	Stop Clock Condition (SCC)	SCC Definition				
	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following:				
		 Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; 				
		 Site contact refuses access to technician who displays proper identification; 				
7		 Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; or, 				
		d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.				
		If it is determined later that the cause of the problem was not at the site in question, then the Access SCC shall not apply.				
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.				
9	APPLICATION	End-User software applications that interfere with repair of the trouble.				
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.				
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close-out of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.				

#	Stop Clock Condition (SCC)	SCC Definition
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET 3 service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.
14	FORCE MAJEURE	Force Majeure events, as defined in the PMAC General Provisions - Telecommunications, Section 28 (Force Majeure).

Bidder understands the Requirement and shall meet or exceed it? Yes_X____ No____



3.5.8 TECHNICAL SERVICE LEVEL AGREEMENTS

The Contractor shall provide and manage the following Technical SLAs.

3.5.8.1 Availability (M-S)

SLA Name: Availability

Definition: The percentage of time a CALNET 3 service is fully functional and available for use each calendar month.

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

Services:

MAE Service	Managed Router Service
Ethernet Network Service (ENS)	

Objective(s):

The objective shall be based on the UNI physical interface:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
EPL and EVPL MAE Service 10/100 Mbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
EPL and EVPL MAE Service 1Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
EPL and EVPL, MAE Service 10Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
EPL and EVPL, MAE Service 100Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
ENS MAE Service 10/100 Mbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
ENS MAE Service 1Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
ENS MAE Service 10Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
ENS MAE Service 100Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
Managed Router Service	≥ 99.2%	≥ 99.5%	≥ 99.9%	Р



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

Bidder understands the Requirement and shall meet or exceed it? Yes__X__ No____



3.5.8.2 Catastrophic Outage 1 (CAT 1) (M-

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 (5) 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) affected by a common cause. Each End-User service is deemed out of service from the first notification until the Contractor determines the End-User service (Circuit ID) is restored minus SCC. Any service reported by Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Service(s):

MAE Service	Managed Router Service
Ethernet Network Service (ENS)	

Objective (s):

The objective restoral time shall be:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	s
Ethernet Network Service (ENS)	≤ 3 hours	≤ 2 hours	≤ 1 hour	s
Managed Router Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	S

Rights and Remedies

Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault

Monthly Aggregated Measurements: N/A

Bidder understands the Requirement and shall meet or exceed it? Yes__X__ No____



3.5.8.3 Catastrophic Outage 2	(CAI2	2)	(M-S)
-------------------------------	-------	----	-------

SLA Name: Catastrophic Outage 2 (CAT 2)

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

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

Service(s):

MAE Service	Managed Router Service

Ethernet Network Service (ENS)

Objective (s):

The objective restoral time shall be:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	s
Ethernet Network Service (ENS)	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	s
Managed Router Service	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	s

Rights and Remedies

Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault

Monthly Aggregated Measurements: N/A

Bidder understands the Requirement and shall meet or exceed it? Yes__X___ No____



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

SLA Name: Catastrophic Outage 3 (CAT 3)

Definition: The total loss of one (1) or more CALNET 3 services on a system wide basis.

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

Service(s):

MAE Service	Managed Router Service
Ethernet Network Service (ENS)	

Objectives:

The objective restoral time shall be:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or P)
MAE Service	≤ 30 minutes	N/A	≤ 15 minutes	Р
Ethernet Network Service (ENS)	≤ 30 minutes	N/A	≤ 15 minutes	P
Managed Router Service	≤ 30 minutes	N/A	≤ 15 minutes	P

Rights and Remedies

Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 3 fault.

Monthly Aggregated Measurements: N/A

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

3.5.8.5 Excessive Outage (M-S)

SLA Name: Excessive Outage

Definition: A service failure that remains unresolved for more than the committed objective level.

Measurement Process: This SLA is based on trouble ticket Unavailable Time. The circuit or service is unusable during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If Customer reports a service failure as unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.

Service(s):

MAE Service Managed Router Service

Ethernet Network Service (ENS)

Objective (s):

The Unavailable Time objective shall not exceed:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service	16 hours	12 hours	8 hours	s
Ethernet Network Service (ENS)	16 hours	12 hours	8 hours	s
Managed Router Service	16 hours	12 hours	8 hours	S

Rights and Remedies

Per Occurrence: 100 percent of the TMRC for each service (Circuit ID) out of service for a period greater than the committed objective level.

Upon request from the Customer or the CALNET 3 CMO, the Contractor shall provide a briefing on the excessive outage restoration.

Monthly Aggregated Measurements: N/A

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



3.5.8.6 Notification

SLA Name: Notification

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

Measurement Process: The Contractor shall adhere to the Network Outage Response requirements (IFB STPD 12-001-B Refresh Business Requirements Section B.3.3) and notify the CALNET 3 CMO and designated stakeholders for all CAT 2 and CAT 3 Outages or for network outages resulting in a significant loss of service. Notification objectives will be based on the start time of the outage failure determined by the opening of a trouble ticket or network alarm, whichever occurs first. For events based on information such as terrorist activity or natural disaster, the Contractor shall notify CALNET 3 CMO and designated stakeholder when information is available.

Service(s): All Services

Objective (s): Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify CALNET 3 CMO and designated stakeholders using a method defined in IFB STPD 12-001-B Refresh Business Requirements Section B.3.3 (Network Outage Response).

At 60 minute intervals, updates shall be given on the above mentioned failures via the method defined in Section IFB STPD 12-001-B Refresh Business Requirements Section B.3.3 (Network Outage Response).

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

Rights and	Per Occurrence: Senior Management Escalation
Remedies	Monthly Aggregated Measurements: N/A

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



3.5.8.7 Latency (M-S)

SLA Name: Latency

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 and Ethernet frame entering the ingress UNI to when the last bit of the same frame leaves the egress UNI. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a Latency issue shall not count in Availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.

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.

Service(s):

MAE Service	Managed Router Service

Ethernet Network Service (ENS)

Objective (s):

The Unavailable Time objective shall not exceed:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service	≤ 75ms	≤ 50ms	≤ 25ms	S
Ethernet Network Service (ENS)	≤ 75ms	≤ 50ms	≤ 25ms	s
Managed Router Service	≤ 75ms	≤ 50ms	≤ 25ms	S

Rights and Remedies

Per Occurrence: 15 percent of the TMRC for the reported service

Next consecutive month to fail to meet the committed SLA objectives shall result in a 25 percent rebate of TMRC.

Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35 percent rebate of TMRC.

Monthly Aggregated Measurements: N/A

Bidder understands	the Requireme	ent and shall meet o	or exceed it? Ves	Y No	



3.5.8.8 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.

Service(s):

MAE Service	Managed Router Service

Ethernet Network Service (ENS)

Objective (s):

The Packet Loss objective shall not exceed:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MAE Service	≤ .7% packet loss	≤ .5% packet loss	≤ .2% packet loss	P
Ethernet Network Service (ENS)	≤ .7% packet loss	≤ .5% packet loss	≤ .2% packet loss	Р
Managed Router Service	≤ .7% packet loss	≤ .5% packet loss	≤ .2% packet loss	Р

Rights and Remedies

Per Occurrence: 15 percent of the TMRC for the reported service

Next consecutive month to fail to meet the committed SLA objectives shall result in a 25 percent rebate of TMRC.

Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35 percent rebate of TMRC.

Monthly Aggregated Measurements: N/A

Bidder understands the Requirement and shall meet or exceed it? Yes__X__ No____



3.5.8.9 Provisioning (M-S)

SLA Name: Provisioning

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 Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with IFB STPD 12-001-B Refresh Section B.2.5.4 #7 (Provisioning and Implementation). The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Request(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Schedule per IFB STPD 12-001-B Refresh Business Requirements Section B.6 (Contracted Service Project Work).

Provisioning SLAs have two (2) objectives:

Objective 1: Individual Service Request; and

Objective 2: Successful Install Monthly Percentage by Service Type.

Note: Provisioning timelines include extended demarcation wiring, when appropriate.

Measurement Process:

<u>Objective 1: Individual Service Request:</u> Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor. This objective requires the Contractor to meet the due date for each individual Service Request.

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

Service (Features must be installed in conjunction with the service except when listed below)	Committed Interval Calendar Days	Coordinated/Managed Project
MAE Service	30	Coordinated/Managed Project
Managed Router Service	30	Coordinated/Managed Project
Ethernet Network Service (ENS)	30	Coordinated/Managed Project



Objective (s):

Objective 1: Individual Service Request: Service installed on or before the Committed Interval or negotiated due date.

Objective 2: Successful Install Monthly Percentage per Service:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (S or P)
MAE Service	N/A	≥ 90%	≥ 95%	P
Ethernet Network Service (ENS)	N/A	≥ 90%	≥ 95%	P
Managed Router Service	N/A	≥ 90%	≥ 95%	Р

Per Occurrence:

Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.

Rights and Remedies

Monthly Aggregated Measurements:

Objective 2: 100 percent of the installation fee credited to Customer for all Service Requests (per service type) that did not complete on time during the month if the Successful Install Monthly Percentage is below the committed objective.

Bidder understands the Requirement and shall meet or exceed it? Yes__X__ No___

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

SLA Name: Time to Repair (TTR)

Definition: A service outage that remains unresolved for more than the committed objective

level.

Measurement Process: This SLA is based on trouble ticket Unavailable Time. The circuit or service is unusable during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If Customer reports a service failure as unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time. This SLA is applied per occurrence.

Service(s):

MAE Service Managed Router Service

Ethernet Network Service (ENS)

Objective (s):

The Unavailable Time objective shall not exceed:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or S)
MAE Service	6 hours	4 hours	N/A	В
Ethernet Network Service (ENS)	6 hours	4 hours	N/A	В
Managed Router Service	6 hours	4 hours	N/A	В

Rights and Remedies

Per Occurrence: 25 percent of the TMRC per occurrence for each service (Circuit ID) out of service for a period greater than the committed objective level.

Monthly Aggregated Measurements: N/A

Bidder understands the Requirement and shall meet or exceed it? Yes__X__ No____

3.	5.8.11 N	Man	aged Service Proactive Notifica	tion (M-S)	
	SLA Name: Managed Service Proactive Notification				
	Definition: The proactive outage notification provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed router service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET 3 CMO. An Outage is defined as an unscheduled period in which the managed router service is interrupted and unavailable for use by Customer for 60 continuous seconds or more than 60 cumulative seconds within a 15-minute period measured by the Contractor.				
	Measurement Process: The Outage Duration start shall be determined by the first Contractor network alarm resulting from the outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. The Contractor has fifteen (15) minutes (Notification Period) to notify the Customer from the start point of the first network alarm. The Contractor is in compliance with the proactive outage notification SLA if the Customer opened the trouble ticket prior to the network alarm or Customer is notified by the Contractor within the Notification Period.				
	Service(s):				
	MAE Serv	MAE Services, with Managed Router		Managed Router Service	
	Objective (s): 15 minutes				
	Rights and		Per Occurrence: Customer will receive a credit equal to ten percent of the TMRC for Managed Internet Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period		
			Monthly Aggregated Measurem	ents: N/A	
Bidder understands the Requirement and shall meet or exceed it? Yes <u>X</u> No					
3.	5.8.12 l	Uns	olicited Service Enhancement S	LAs	
		-		ts shall be considered a feature of the service uch under the SLAs as defined in this Section.	
Bid	der unders	stan	ds the Requirement and shall m	neet or exceed it? Yes X No	



3.5.8.13 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 3.5 for each unsolicited offering determined by the CALNET 3 CMO not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

Bidder unde	erstands the Requirement and shall meet or exceed it? Yes_X No
3.5.8.14	Contract Amendment Service Enhancement SLAs
	All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in this Section 3.5.8.
Bidder unde	erstands the Requirement and shall meet or exceed it? Yes <u>X</u> No