



**AT&T**

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

CalNet 3, Category 5: Managed Internet Services

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

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

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

Attached is Exhibit 8: Contractor's License Information.



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

(Installation Services Only)

For Category/Subcategory: 5: Managed Internet

Name of Bidder: AT&T Corp.

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

**CONTRACTOR**

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

**SUBCONTRACTOR 1**

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

**SUBCONTRACTOR 2**

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

(Use additional sheets if necessary.)





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

Attached is the completed and signed Exhibit 10.



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**Exhibit 10: BIDDING PREFERENCES AND INCENTIVES**

For Category/Subcategory: 5: Managed Internet

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

**1. SMALL BUSINESS PREFERENCE**

Bidder must check the appropriate box from the choices below.

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

**2. DVBE INCENTIVE**

Bidder must check the appropriate box from the choices below.

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



**EXHIBIT 10, CONTINUED**

**3. ADDITIONAL BIDDING PREFERENCES**

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

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

Name of Bidder: AT&T Corp.

Signature and Date: Mark R... March 17, 2014



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

AT&T is not claiming a DVBE incentive



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

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



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

AT&T is not claiming TACPA preference.



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

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



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**EXHIBIT 14: COMMERCIALY USEFUL FUNCTION STATEMENT**

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

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

CALNET 3 Category or Subcategory being bid: Category 5

Subcontractor Name:

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

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

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

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

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



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

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

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

Signature of Company  
Representative:

Printed/Typed Name and Title of  
Company Representative:

Mark Roese, Executive Sales Director

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# Category 5 – Managed Internet Services

## 5.1 Overview

This Category 5 IFB provides the State's solicitation for best value solutions for managed Internet services. This IFB describes the CALNET 3 technical requirements necessary to support the CALNET 3 program requirements.

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

### 5.1.1 Bidder Response Requirements

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

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

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

Or,

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

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

Description:"

### 5.1.2 Designation of Requirements

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



Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the Cost Worksheets. Items not listed in the Cost Worksheets will not be billable by the Contractor. If Bidder provided unsolicited items include features described in the IFB requirements and are not billable in the Cost Worksheets, the cost associated with the features shall not be included in the unsolicited service unless it represents an unbundling of the mandatory service.

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.

### **5.1.3 Pacific Time Zone**

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

## **5.2 Managed Internet Service**

The Contractor shall provide dedicated Internet access service that provides high-speed Internet access through communications facilities managed by the Contractor.

Bidder shall describe in detail the high-speed Internet access service(s) that will be provided under this Contract.

When describing the full suite of services offered, bidders should clearly indicate and differentiate those services that will be used to meet the minimum requirements and those services that are offered as unsolicited.

*Bidder understands the requirements in Section 5.2 and shall meet or exceed them?* Yes  **X**  
No

*Description:*

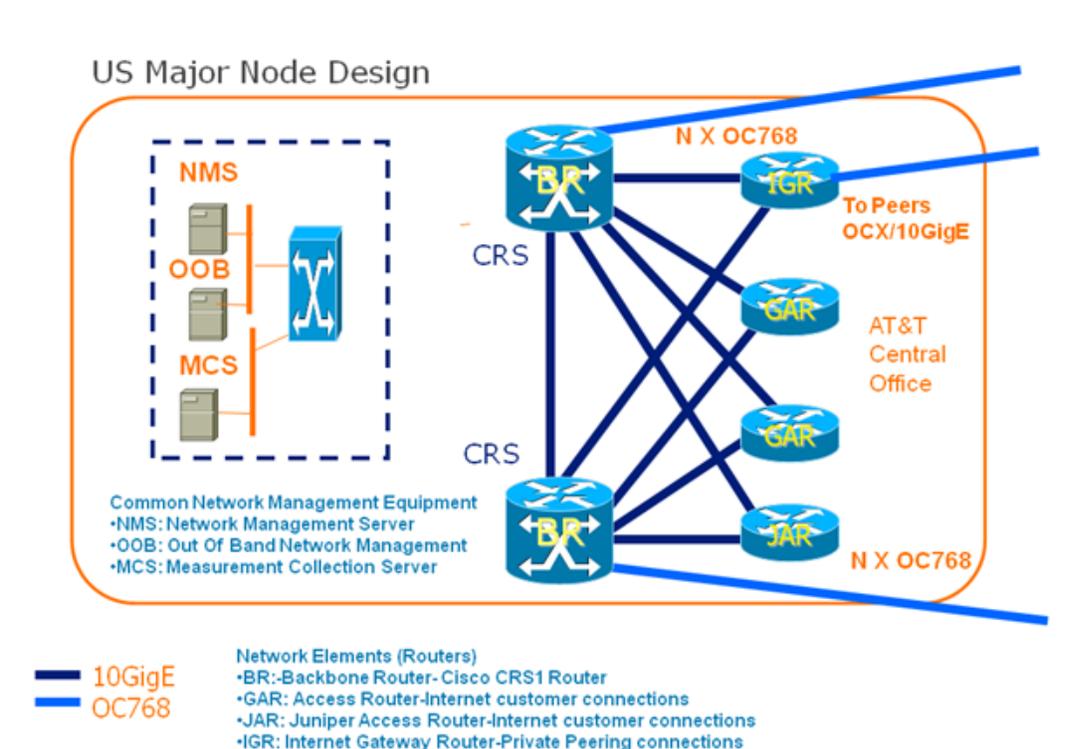
### **Required Internet Service**

AT&T Managed Internet Service (MIS) is available in two service types. MIS with Managed Router includes the router at the customer site. AT&T configures and manages the on-site router, Channel Service Unit/Data Service Unit (CSU/DSU), and diagnostic modem. MIS with Customer-Managed Router provides managed Internet access, the customer provides and manages the on-site equipment. In each case, the router at the customer site is connected to the AT&T Point of Presence (POP) using a dedicated DS1, DS3, or Ethernet circuit.

At the AT&T POP, the access circuit terminates on an MIS access router. All network routers are deployed in a redundant fashion, with redundant power supplies and redundant processors.



Parts are spared locally within each POP. MIS access routers in a major node are connected to dual backbone routers with a minimum of two via POS or 10GigE links. This is illustrated in the figure below:



All backbone nodes have many more routers than what is shown here; this diagram simply shows the typical connectivity for routers supporting MIS.

Backbone routers are Cisco CRSs [CRS is a family of routers; some are CRS1s and others are CRS3s; CRS3s have a different fabric which enables denser port support and use of denser line cards.]. CRSs have redundant power supplies, fans, route processors, and switching fabrics. Most locations are also deployed in a multi-chassis configurations. Each Major IP Backbone node has a minimum of two CRSs and each router connects to multiple OC768 and OC192 facilities going in different directions. AT&T designs and capacity-manages its network to be single-link and single node survivable. In this case, it means that if a single CRS completely failed (highly unlikely due to the redundant components and architecture), there would be sufficient capacity on the remaining OC768 links to carry all the traffic that passed through the failed CRS. In addition, as described previously, facilities connecting the major nodes are protected by MPLS Fast ReRoute.





GAR=Access router—are GSRs (12012s/12416s) used as access routers. These are used to support some DS3 connections but primarily OCX (OC3 & above) customer connections. They are connected to the backbone GSRs with 10GigE links. Some of these are 12012s but all new installations are now 12416s.

IGR is an Internet Gateway Router; its only function is to support private peering connections with other ISPs. (AT&T does not use public peering in the United States.) At present, peering takes place in 9 cities, but could be supported in additional cities if it is mutually beneficial between AT&T and its ISP peers. IGRs can be either Juniper T640 routers or Cisco CRS routers connected to the core CRSs with 2 OC768(40Gig) connections. These routers support many 10GigE peering links. Older IGRs are Cisco 12012s/12416s. These older IGRs connect with the CRS1s using multiple 10GigE connections. Today all AT&T's peering is private peering (direct connections) and all links are OCX/GigE facilities

JARs (Juniper Access Routers). These routers presently support 10GigE MIS connections as well as IPv4/IPV6 dual stack customer ports. The T640 includes a high degree of redundancy within its design, including five Switch Interface Boards (SIBs) (4 + 1 redundancy) as well as, 2 Routing Engines and 2 Control Boards (1 + 1 redundancy), that provide the routing and system management functions of the router. There is additional redundancy within these various components down to the ASIC (chip) level. If a SIB fails, the backup SIB becomes active and traffic continues forwarding without degradation.

AT&T's US IP/MPLS network consists of 25 core IP/MPLS nodes are interconnected with multiple OC768/OC192 facilities, plus over 50 remote edge locations, dually homed to two major core nodes. Managed Internet Service is supported at over 75 locations throughout the US.

Included in the service, AT&T will host Customer's IP addresses or domain names for up to 15 primary and/or secondary (the same domain counts as both primary and secondary) DNS zones (15 domain names per circuit or per each NxT1 circuit bundle). MIS supports IPv4, IPv6, and dual stack IPv4-IPv6.

## **Unsolicited Internet Service Features for MIS**

The following unsolicited services are optional features of MIS, or work in conjunction with MIS to provide capabilities generally often needed for an internet connection.



## Unsolicited - Class of Service (CoS) for MIS

Class of Service (CoS) is an optional feature of MIS that enables a customer to prioritize traffic on their MIS service among four classes: real-time, high-grade data, medium-grade data, and low-grade data. Each CoS has a specific amount of bandwidth allocation so that all classes can transmit data during congestion. However, if any class does not use its entire bandwidth allocation, packets of other classes can share the unused bandwidth. Customer may select from a number of "profiles" that have predetermined bandwidth allocations for each CoS.

The Customer Equipment (CE) has two critical functions in the performance architecture: identification and marking of application traffic flows, and differential queuing into the WAN network. The marking of packets is done by setting specific Diff-Serv Codepoint (DSCP) values within the TOS byte of the IP header. Each marking indicates the type of treatment that a packet should receive from the network. The set of flows that share a common marking, and resulting treatment are referred to as a 'class'. MIS supports 4 user markings (or classes):

Class	Marking	Behavior
COS1	EF CS5	Priority
COS2	AF31 CS3	Bursty Data
COS3	AF21 CS2	Bursty Data
COS4	Default "0"	Best Effort

For each IP service connection, customers order a pair of 'allocation profiles', one to control ingress policing and one to control egress queuing. The profile specifies the amount of bandwidth reserved for each CoS class. When ordering CoS, the allocation profile can be specified as 'simple' or 'complex'. The simple allocation profiles provide a set of the most common allocation profiles. Use of these profiles is suitable for the vast majority of enterprise needs and is highly recommended. The table below shows traffic class allocation options using simple profiles. Priority CoS1 traffic can be allocated from 10-80% of the bandwidth. The remaining classes can use bandwidth not being used by CoS1 in the percentages shown in the table.

CoS1	CoS2	CoS3	CoS4
10-80%	80%	10%	10%
10-80%	40%	30%	30%
10-80%	60%	30%	10%



On ingress, CoS1 traffic exceeding the allocation is dropped, for the remaining data queues traffic exceeding the allocation is considered ‘out of contract’, and is marked accordingly (i.e. mapped to an e-LSP which has a higher drop probability during core congestion) for transport across the network core. The ingress allocation is defined as a percentage. For most services, the percentage is based on the speed of the access port.

On egress, the allocations control the relative servicing of the classes out of the egress port11 toward the customer site. This allocation is only in effect when the total data arrival rate is greater than the port capacity (i.e. the egress port is congested). Each allocation profile defines the percentage of available bandwidth for each CoS class. For any class that is not consuming its full allocation, the excess bandwidth for the class becomes available for the remaining queues in a ratio proportional to their allocation. Note that the CoS1 class is an exception. Traffic is not allowed to exceed its allocation, even if bandwidth is available on the port. CoS1 traffic exceeding the allocation is discarded. Unused COS1 bandwidth is still available for consumption by the remaining data classes.

### **5.2.1 Internet Services General Requirements**

The Contractor’s network shall connect a Customer’s Local Area Network (LAN) or application to the Internet by providing highly reliable transport and Internet Protocol (IP) connectivity. The service shall use the Transmission Control Protocol/Internet Protocol (TCP/IP) to interconnect customer premise equipment (CPE) to the public Internet Service Provider (ISP) networks.

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

### **5.2.2 Network Capabilities**

The Contractor’s network shall have:

1. Established public peering arrangements from the Contractor’s network to the Internet.
2. Private peering arrangements established from the Contractor’s network with redundant links to connect to its private peering partners.
3. Support for Customer assigned and Internet Corporation for Assigned Names and Numbers (ICANN) registered IP addresses and domain names.
4. Primary and Secondary Domain Name Service (DNS) to provide an authoritative name server for the Customer.

The Contractor shall provide support for the border gateway protocol (BGP) for Customers with registered Autonomous System (AS) numbers.



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

### **5.2.2.1 Standards**

Dedicated Internet Services shall comply with the following standards, as applicable, and when commercially available by the Contractor:

1. Internet Engineering Task Force (IETF) Requests for Comments (RFCs);
2. ANSI T1;
3. ITU TSS Recommendations;
4. ATM Forum;
5. Frame Relay Forum implementation agreements;
6. North American ISDN Users Forum (NIUF);
7. IEEE
  - a. 802.10;
  - b. 802.1P; and
  - c. 802.3AD.
8. Metro Ethernet Forum (MEF);
9. IETF RFCs for IPv6 when offered commercially by the Contractor; and
10. All new versions, amendments, and modifications to the above documents and standards as they become commercially available.

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

### **5.2.3 Network Operations and Management**

#### **5.2.3.1 General Description**

The Contractor's data network(s) shall meet established industry standards.

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



### 5.2.3.2 Network Operations Center

The Contractor shall maintain a Network Operations Center (NOC) that is staffed 24x365 that coordinates and manages all data traffic.

The NOC shall perform the following services:

1. Network surveillance;
2. Fault management (trouble identification, isolation and notification); and,
3. Monitor network performance in near real-time to identify capacity blockages and implement controls to optimize network health and performance immediately.

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

### 5.2.3.3 Security

#### 5.2.3.3.1 Physical Access

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

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

#### 5.2.3.3.2 Network Security

The Contractor's network security solution shall incorporate the following features:

1. The Contractor's network equipment locations and data centers shall use carrier grade platforms; and,
2. All equipment shall be in a hardened facility and all unnecessary services shall be disabled or removed.

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

#### 5.2.3.3.3 Security Event Notifications

The Contractor shall provide the designated State representatives with notifications of suspected and real security violations that impact CALNET 3 Customers within one (1) hour of such determination via telephonic means or email.

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



## 5.2.4 Dedicated Internet Flat Rate Services Technical Requirements

The service shall connect a Customer’s LAN or application to the Internet by providing highly reliable transport and IP connectivity to the internet.

The speeds in the Feature Names in Table 5.2.4.1.b indicate download speeds. Bidder shall indicate the upload speeds in the Bidder’s Product Description in Table 5.2.4.1.b, Table 5.2.4.2.b and in Catalog A, Column E (Feature Restrictions, Limitations and Additional Information).

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

### 5.2.4.1 Internet Flat Rate Service (InFRa)

The Contractor shall provide Internet Flat Rate Service (InFRa) at the speeds identified in Table 5.2.4.1.b. The services shall consist of a dedicated Internet port and transport from the Customer site to the nearest Contractor Point-of-Presence (POP). The service shall include all equipment, cabling and labor required to provide a User-to-Network Interface (UNI) at the Customer premise Minimum Point of Entry (MPOE). The Contractor shall describe the User-to-Network Interface characteristics in the rows provided in Table 5.2.4.1.b using Table 5.2.4.1.a as a guide. Table 5.2.4.1.a is a guide only. Contractors shall follow the format as closely as possible if the guide content does not align with a particular Contractor technology or offering.

Table 5.2.4.1.a - InFRa UNI Guide

	Interface/Access Type	Network-Side Interface	Protocol
1	Asynchronous Transfer Mode Service (ATMS)	1. T1 2. T3 3. OC-3c 4. OC-12c	IPv4/v6 over ATMS
2	Cable High Speed Access	N/A	Point-to-Point Protocol, IPv4/v6
3	Ethernet Interface	1. 1 Mbps up to 1 GbE (Gigabit Ethernet) 2. 10 GbE	IPv4/v6 over Ethernet
4	Frame Relay Service (FRS)	1. Fractional T1 2. T1 3. Fractional T3 4. T3	IPv4/v6 over FRS





	Interface/Access Type	Network-Side Interface	Protocol
5	IP over SONET Service	1. OC-3c 2. OC-12c 3. OC-48c 4. OC-192c	IP/PPP over SONET
6	Private Line Service (PLS)	1. Fractional T1 2. T1 3. Fractional T3 4. T3 5. OC-3c 6. OC-12c 7. OC-48c 8. OC-192c	IPv4/v6 over PLS
7	DSL Service	xDSL access	Point-to-point protocol, IPv4/v6

The Contractor shall offer the InFRa Services detailed in Table 5.2.4.1.b. Bidders shall identify the Interface/Access Type(s), Network Side Interface(s) (if applicable), and the Protocol(s) applicable to each speed listed in Table 5.2.4.1.b. Bidders must provide at least one (1) service/solution for each InFRa speed listed in Table 5.2.4.1.b. Additional Internet Flat Rate Services that utilize different UNI's with different product identifiers and associated costs should be listed in an Unsolicited table in the same fashion as Table 5.2.4.1.b.

**Table 5.2.4.1.b – Internet Flat Rate Service**

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
			Y	N	
1	InFRa @ 1.544Mbps	Internet Flat Rate Service (InFRa) at 1.544Mbps. Includes dedicated Internet port and transport.	Y		MI001
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 1.544Mbps. Includes dedicated Internet port and transport at 1.544Mbps. Upload 1.544Mbps.</b>					
Interface/Access Type: <b>Private Line Service (PLS)</b>					
Network Side Interface: <b>T1</b>					
Protocol: <b>IPv4/v6 over PLS</b>					
2	InFRa @ 2Mbps	Internet Flat Rate Service (InFRa) at 2Mbps. Includes dedicated Internet port and transport.	Y		MI002





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**Vol. 2, SOW Technical Requirements Response, Category 5 –**  
**Managed Internet Services**  
**Amendment #1, Rev. June 4, 2015**

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 2Mbps. Includes dedicated Internet port at 2Mbps and transport at 2Mbps. Upload 2Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
3	InFRa @ 3Mbps	Internet Flat Rate Service (InFRa) at 3Mbps. Includes dedicated Internet port and transport.	Y		MI003
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 3Mbps. Includes dedicated Internet port and transport at 4Mbps. Upload 3Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
4	InFRa @ 4Mbps	Internet Flat Rate Service (InFRa) at 4Mbps. Includes dedicated Internet port and transport.	Y		MI004
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 4Mbps. Includes dedicated Internet port at 4Mbps and transport at 4Mbps. Upload 4Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
5	InFRa @ 4.5Mbps	Internet Flat Rate Service (InFRa) at 4.5Mbps. Includes dedicated Internet port and transport.	Y		MI006
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 5Mbps. Includes dedicated Internet port at 5Mbps and transport at 5Mbps. Upload 5Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
6	InFRa @ 5Mbps	Internet Flat Rate Service (InFRa) at 5Mbps. Includes dedicated Internet port and transport.	Y		MI006





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 5Mbps. Includes dedicated Internet port at 5Mbps and transport at 5Mbps. Upload 5Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
7	InFRa @ 6Mbps	Internet Flat Rate Service (InFRa) at 6Mbps. Includes dedicated Internet port and transport.	Y		MI007
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 6Mbps. Includes dedicated Internet port and transport at 8Mbps. Upload 6Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
8	InFRa @ 7Mbps	Internet Flat Rate Service (InFRa) at 7Mbps. Includes dedicated Internet port and transport.	Y		MI008
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 7Mbps. Includes dedicated Internet port at 7Mbps and transport at 8Mbps. Upload 7Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
9	InFRa @ 7.5Mbps	Internet Flat Rate Service (InFRa) at 7.5Mbps. Includes dedicated Internet port and transport.	Y		MI010
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 8Mbps. Includes dedicated Internet port at 8Mbps and transport at 8Mbps. Upload 8Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
10	InFRa @ 8Mbps	Internet Flat Rate Service (InFRa) at 8Mbps. Includes dedicated Internet port and transport.	Y		MI010





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 8Mbps. Includes dedicated Internet port at 8Mbps and transport at 8Mbps. Upload 8Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
11	InFRa @ 9Mbps	Internet Flat Rate Service (InFRa) at 9Mbps. Includes dedicated Internet port and transport.	Y		MI011
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 9Mbps. Includes dedicated Internet port at 9Mbps and transport at 10Mbps. Upload 9Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
12	InFRa @ 10Mbps	Internet Flat Rate Service (InFRa) at 10Mbps. Includes dedicated Internet port and transport.	Y		MI012
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 10Mbps. Includes dedicated Internet port at 10Mbps and transport at 10Mbps. Upload 10Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
13	InFRa @ 10.5Mbps	Internet Flat Rate Service (InFRa) at 10.5Mbps. Includes dedicated Internet port and transport.	Y		MI015
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port at 15Mbps and transport at 20Mbps. Upload 15Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
14	InFRa @ 12Mbps	Internet Flat Rate Service (InFRa) at 12Mbps. Includes dedicated Internet port and transport.	Y		MI015





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port at 15Mbps and transport at 20Mbps. Upload 15Mbps</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
15	InFRa @ 15Mbps	Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port and transport.	Y		MI015
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port at 15Mbps and transport at 20Mbps. Upload 15Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
16	InFRa @ 20Mbps	Internet Flat Rate Service (InFRa) at 20Mbps. Includes dedicated Internet port and transport.	Y		MI016
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 20Mbps. Includes dedicated Internet port at 20Mbps and transport at 20Mbps. Upload 20Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
17	InFRa @ 25Mbps	Internet Flat Rate Service (InFRa) at 25Mbps. Includes dedicated Internet port and transport.	Y		MI017
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 25Mbps. Includes dedicated Internet port at 25Mbps and transport at 50Mbps. Upload 25Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
18	InFRa @ 30Mbps	Internet Flat Rate Service (InFRa) at 30Mbps. Includes dedicated Internet port and transport.	Y		MI018





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 30Mbps. Includes dedicated Internet port at 30Mbps and transport at 50Mbps. Upload 30Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
19	InFRa @ 35Mbps	Internet Flat Rate Service (InFRa) at 35Mbps. Includes dedicated Internet port and transport.	Y		MI019
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 35Mbps. Includes dedicated Internet port at 35Mbps and transport at 50Mbps. Upload 35Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
20	InFRa @ 40Mbps	Internet Flat Rate Service (InFRa) at 40Mbps. Includes dedicated Internet port and transport.	Y		MI020
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 40Mbps. Includes dedicated Internet port at 40Mbps and transport at 50Mbps. Upload 40Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
21	InFRa @ 45Mbps	Internet Flat Rate Service (InFRa) at 45Mbps. Includes dedicated Internet port and transport.	Y		MI021
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 45Mbps. Includes dedicated Internet port at 45Mbps and transport at 50Mbps. Upload 45Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
22	InFRa @ 60Mbps	Internet Flat Rate Service (InFRa) at 60Mbps. Includes dedicated Internet port and transport.	Y		MI022





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 60Mbps. Includes dedicated Internet port at 60Mbps and transport at 100Mbps. Upload 60Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>100-Base-TX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
23	InFRa @ 155Mbps	Internet Flat Rate Service (InFRa) at 155Mbps. Includes dedicated Internet port and transport.	Y		MI023
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 155Mbps. Includes dedicated Internet port at 155Mbps and transport at 250Mbps. Upload at 155Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>1000-Base-SX/LX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
24	InFRa @ 622Mbps	Internet Flat Rate Service (InFRa) at 622Mbps. Includes dedicated Internet port and transport.	Y		MI024
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 622Mbps. Includes dedicated Internet port at 622Mbps and transport at 1000Mbps. Upload at 622Mbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>1000-Base-SX/LX Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				
25	InFRa @ 2.45Gbps	Internet Flat Rate Service (InFRa) at 2.45Gbps. Includes dedicated Internet port and transport.	Y		MI025
	Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 2.5Gbps. Includes dedicated Internet port at 2.5Gbps and transport at 10000Mbps. Upload at 2.5Gbps.</b>				
	Interface/Access Type: <b>Ethernet Interface</b>				
	Network Side Interface: <b>10G-Base LSR Ethernet</b>				
	Protocol: <b>IPv4/v6 over Ethernet</b>				





Table 5.2.4.1.c – Unsolicited Internet Flat Rate Service

	Feature Name	Feature Description	Bidder's Product Identifier
1	Flat Rate Internet 10Mbps	Internet Flat Rate Service at 10Mbps. Includes dedicated Internet port and T3 transport.	MI051
Bidder's Product Description: <b>Internet Flat Rate Service at 10Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 10Mbps.</b>			
Interface/Access Type: <b>Private Line Service (PLS)</b>			
Network Side Interface: <b>T3</b>			
Protocol: <b>IPv4/v6 over PLS</b>			
2	Flat Rate Internet 15Mbps	Internet Flat Rate Service at 15Mbps. Includes dedicated Internet port and T3 transport.	MI052
Bidder's Product Description: <b>Internet Flat Rate Service at 15Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 15Mbps.</b>			
Interface/Access Type: <b>Private Line Service (PLS)</b>			
Network Side Interface: <b>T3</b>			
Protocol: <b>IPv4/v6 over PLS</b>			
3	Flat Rate Internet 20Mbps	Internet Flat Rate Service at 20Mbps. Includes dedicated Internet port and T3 transport.	MI053
Bidder's Product Description: <b>Internet Flat Rate Service at 20Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 20Mbps.</b>			
Interface/Access Type: <b>Private Line Service (PLS)</b>			
Network Side Interface: <b>T3</b>			
Protocol: <b>IPv4/v6 over PLS</b>			
4	Flat Rate Internet 25Mbps	Internet Flat Rate Service at 25Mbps. Includes dedicated Internet port and T3 transport.	MI054
Bidder's Product Description: <b>Internet Flat Rate Service at 25Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 25Mbps..</b>			
Interface/Access Type: <b>Private Line Service (PLS)</b>			
Network Side Interface: <b>T3</b>			
Protocol: <b>IPv4/v6 over PLS</b>			





	Feature Name	Feature Description	Bidder's Product Identifier
5	Flat Rate Internet 30Mbps.	Internet Flat Rate Service at 30Mbps. Includes dedicated Internet port and T3 transport.	MI055
	Bidder's Product Description: Internet Flat Rate Service at 30Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 30Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
6	Flat Rate Internet 35Mbps	Internet Flat Rate Service at 35Mbps. Includes dedicated Internet port and T3 transport.	MI056
	Bidder's Product Description: Internet Flat Rate Service at 35Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 35Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
7	Flat Rate Internet 40Mbps	Internet Flat Rate Service at 40Mbps. Includes dedicated Internet port and T3 transport.	MI057
	Bidder's Product Description: Internet Flat Rate Service at 40Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 40Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
8	Flat Rate Internet 45Mbps	Internet Flat Rate Service at 45Mbps. Includes dedicated Internet port and T3 transport.	MI058
	Bidder's Product Description: Internet Flat Rate Service at 45Mbps. Includes dedicated Internet port and transport at DS3 rate. Upload at 45Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		





	Feature Name	Feature Description	Bidder's Product Identifier
9	Flat Rate Internet 3Mbps	Internet Flat Rate Service at 3Mbps. Includes dedicated Internet port and 2xT1 transport.	MI200
	Bidder's Product Description: Internet Flat Rate Service at 3Mbps. Includes dedicated Internet port and transport at 2xDS1 rate. Upload at 3Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 2xT1		
	Protocol: IPv4/v6 over PLS		
10	Flat Rate Internet 4.5Mbps	Internet Flat Rate Service at 4.5Mbps. Includes dedicated Internet port and 3xT1 transport.	MI201
	Bidder's Product Description: Internet Flat Rate Service at 4.5Mbps. Includes dedicated Internet port and transport at 3xDS1 rate. Upload at 4.5Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 3xT1		
	Protocol: IPv4/v6 over PLS		
11	Flat Rate Internet 6Mbps	Internet Flat Rate Service at 6Mbps. Includes dedicated Internet port and 4xT1 transport.	MI202
	Bidder's Product Description: Internet Flat Rate Service at 6Mbps. Includes dedicated Internet port and transport at 4xDS1 rate. Upload at 6Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 4xT1		
	Protocol: IPv4/v6 over PLS		
12	Flat Rate Internet 7.5Mbps	Internet Flat Rate Service at 7.5Mbps. Includes dedicated Internet port and 5xT1 transport.	MI203
	Bidder's Product Description: Internet Flat Rate Service at 7.5Mbps. Includes dedicated Internet port and transport at 5xDS1 rate. Upload at 7.5Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 5xT1		
	Protocol: IPv4/v6 over PLS		





	Feature Name	Feature Description	Bidder's Product Identifier
13	Flat Rate Internet 9Mbps	Internet Flat Rate Service at 9Mbps. Includes dedicated Internet port and 6xT1 transport.	MI204
Bidder's Product Description: Internet Flat Rate Service at 9Mbps. Includes dedicated Internet port and transport at 6xDS1 rate. Upload at 9Mbps.			
Interface/Access Type: Private Line Service (PLS)			
Network Side Interface: 6xT1			
Protocol: IPv4/v6 over PLS			
14	Flat Rate Internet 10.5Mbps	Internet Flat Rate Service at 10.5Mbps. Includes dedicated Internet port and 7xT1 transport.	MI205
Bidder's Product Description: Internet Flat Rate Service at 10.5Mbps. Includes dedicated Internet port and transport at 7xDS1 rate. Upload at 10.5Mbps.			
Interface/Access Type: Private Line Service (PLS)			
Network Side Interface: 7xT1			
Protocol: IPv4/v6 over PLS			
15	Flat Rate Internet 12Mbps	Internet Flat Rate Service at 12Mbps. Includes dedicated Internet port and 8xT1 transport.	MI206
Bidder's Product Description: Internet Flat Rate Service at 12Mbps. Includes dedicated Internet port and transport at 8xDS1 rate. Upload at 12Mbps.			
Interface/Access Type: Private Line Service (PLS)			
Network Side Interface: 8xT1			
Protocol: IPv4/v6 over PLS			

### 5.2.4.2 Internet Flat Rate with Managed Router Service (InFRaM)

The Contractor shall provide Internet Flat Rate with Managed Router Service at the speeds identified in Table 5.2.4.2.b. The services shall consist of a dedicated Internet Port and Transport from the Customer site to the nearest contractor POP. The service shall include all equipment, cabling and labor required to provide a UNI at the Customer premise MPOE and a Contractor owned, maintained and managed router.





The service shall include a Contractor owned, maintained and managed router. Bidder shall provide a description of the type of equipment, maintenance and management services that the Contractor will deploy to satisfy this requirement.

All Bidder equipment, tasks and services required for provisioning of the services described in Table 5.2.4.2.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.4.2.c.

The Contractor's managed router service shall include proactive Customer notification as identified in the Service Level Agreements.

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

*Description:*

Under MIS with Managed Router AT&T provides, configures, monitors, manages and maintains the CPE necessary to use MIS, which consists of a router and a diagnostic modem. Customer is required to maintain a dedicated telephone line that will be used only with the diagnostic modem for out-of-band testing. The Cisco router model used for MIS with Managed Router is determined by AT&T based on the speed, transport type, and other parameters of the service ordered.

AT&T has full management and operational control (including passwords) of the AT&T CPE. AT&T coordinates required software updates and configuration changes to AT&T CPE. AT&T technicians will work remotely with Customer to diagnose failures and determine if AT&T CPE should be replaced or repaired. If AT&T owned and managed CPE is defective, on-site service is provided. The service will include necessary replacement CPE (as determined by AT&T) as well as assistance from the AT&T technician who will arrive on Customer's site to facilitate the CPE replacement. AT&T reserves the right, at any time and at its sole discretion, to substitute AT&T CPE (or any of its parts) with another functionally equivalent piece of hardware.

## Proactive Monitoring and Notification

AT&T proactively monitors the health and status of MIS customer ports using either a trap-based or poll-based system. Basic ports (excluding Ethernet and MIS with Managed Router) are monitored using a trap-based platform. The platform monitors the interface on the MIS edge router. If the interface on the MIS edge router changes state an event/trap is generated and sent to another automated system for processing and automatic creation of a trouble ticket.

There are 2 types of Alarms detected by the trap-based system:



1. **Hard Down:** The interface on the MIS Edge router changes state and remains in a down state for 12 minutes.
2. **Bouncing:** The interface on the MIS edge router bounces 6 times in 10 minutes.

MIS with Managed Router and Ethernet ports are monitored using a poll-based system. The CPE is pinged once every two minutes; alarms are aged 12 minutes before a trouble ticket is opened automatically. Should the customer lose commercial power to his premise, this would be reported by this system as an outage as an alarm/trap would be registered by the monitoring system.

If the results of these polls/traps indicate a connectivity failure, a ticket is generated by the automated system. Simultaneously the trouble ticket is posted to BusinessDirect® and notification is emailed to all technical customer contacts on record, AT&T automated systems then perform a diagnosis on the port/circuit in an effort to isolate the trouble.

After the initial diagnosis is complete, the ticket is routed to the first available technical support engineer in the appropriate customer care center. The Technical Support Engineer then works with other technical support organizations within AT&T and externally until the trouble is resolved. As part of the resolution process, the Technical Support Engineer may also have to contact the customer.

When the impairment is resolved, the trouble ticket is closed.

## **AT&T Security Measures for Managed Routers**

AT&T uses the Authentication, Authorization, and Accounting (AAA) framework to provide secured interactive access to managed network devices. TACACS+ (Terminal Access Controller Access Control System Plus) is the protocol used on AT&T managed Cisco IOS devices for authentication of management users against a remote AAA server. TACACS+ authentication provides the ability to utilize individual user identification.

In addition, command Authorization is implemented to provide a mechanism to control the command that is entered by a user based on a configured policy in order to permit or deny the command for that particular user and Accounting is used to send each EXEC command that is entered to the configured AAA server. The information sent includes the command executed, the date it was executed, and the username of the user entering the command.



AT&T requires its TACACS+ passwords be changed every thirty days. In addition, the managed router is configured with a “last resort password” to enable access to the device in the event of a complete failure of the network connectivity and authentication system.

Last resort passwords are updated annually as per AT&T Security Policy Requirements. Last resort passwords (line password and secret password) are implemented to provide access for management users in the event that all configured AAA servers become unavailable due to Transport/network failures and are available only to authorized users.

The Bidder shall identify the User-to-Network Interface characteristics in the rows provided in Table 5.2.4.2.b using Table 5.2.4.2.a as a guide.

Table 5.2.4.2.a - InFRaM UNI Guide

	Interface/Access Type	Network-Side Interface	Protocol
1	Asynchronous Transfer Mode Service (ATMS)	1. T1 2. T3 3. OC-3c 4. OC-12c	IPv4/v6 over ATMS
2	Cable High Speed Access	N/A	Point-to-Point Protocol, IPv4/v6
3	Ethernet Interface	1. 1 Mbps up to 1 GbE (Gigabit Ethernet) 2. 10 GbE	IPv4/v6 over Ethernet
4	Frame Relay Service (FRS)	1. Fractional T1 2. T1 3. Fractional T3 4. T3	IPv4/v6 over FRS
5	IP over SONET Service	1. OC-3c 2. OC-12c 3. OC-48c 4. OC-192c	IP/PPP over SONET
6	Private Line Service (PLS)	1. Fractional T1 2. T1 3. Fractional T3 4. T3 5. OC-3c 6. OC-12c 7. OC-48c 8. OC-192c	IPv4/v6 over PLS





	Interface/Access Type	Network-Side Interface	Protocol
7	DSL Service	xDSL access	Point-to-point protocol, IPv4/v6

The Contractor shall offer the InFRaM Services detailed in Table 5.2.4.2.b. Bidders shall include the Interface/Access Type(s), Network Side Interface(s) (if applicable), and the Protocol(s) applicable to each speed listed in Table 5.2.4.2.b. Bidders must provide at least one (1) solution for each InFRaM speed listed in Table 5.2.4.2.b.

Table 5.2.4.2.b – Internet Flat Rate with Managed Router (InFRaM) Service

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
			Y	N	
1	InFRaM @ 1.544Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 1.544Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI026
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 1.544Mbps. Includes dedicated Internet port, transport at 1.544Mbps, and a Contractor owned, maintained and managed router. Upload 1.544Mbps.</b>					
Interface/Access Type: <b>Private Line Service (PLS)</b>					
Network Side Interface: <b>T1</b>					
Protocol: <b>IPv4/v6 over PLS</b>					
2	InFRaM @ 2Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 2Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI027
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 2Mbps. Includes dedicated Internet port at 2Mbps and transport at 2Mbps, and a Contractor owned, maintained and managed router. Upload 2Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
3	InFRaM @ 3Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 3Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI028
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 3Mbps. Includes dedicated Internet port, transport at 4Mbps, and a Contractor owned, maintained and managed router. Upload 3Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
4	InFRaM @ 4Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 4Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI029
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 4Mbps. Includes dedicated Internet port at 4Mbps and transport at 4Mbps, and a Contractor owned, maintained and managed router. Upload 4Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
5	InFRaM @ 4.5Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 4.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI030
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 5Mbps. Includes dedicated Internet port, transport at 5Mbps, and a Contractor owned, maintained and managed router. Upload 5Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
6	InFRaM @ 5Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI030
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 5Mbps. Includes dedicated Internet port at 5Mbps and transport at 5Mbps, and a Contractor owned, maintained and managed router. Upload 5Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
7	InFRaM @ 6Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 6Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI032
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 6Mbps. Includes dedicated Internet port, transport at 8Mbps, and a Contractor owned, maintained and managed router. Upload 6Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
8	InFRaM @ 7Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 7Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI033
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 7Mbps. Includes dedicated Internet port at 7Mbps and transport at 8Mbps, and a Contractor owned, maintained and managed router. Upload 7Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
9	InFRaM @ 7.5Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 7.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI035
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 8Mbps. Includes dedicated Internet port, transport at 8Mbps, and a Contractor owned, maintained and managed router. Upload 8Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
10	InFRaM @ 8Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 8Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI035
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 8Mbps. Includes dedicated Internet port at 8Mbps and transport at 8Mbps, and a Contractor owned, maintained and managed router. Upload 8Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
11	InFRaM @ 9Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 9Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI036
Bidder's Product Description: <b>Internet Flat Rate Service with Managed Router (InFRaM) at 9Mbps. Includes dedicated Internet port, transport at 10Mbps, and a Contractor owned, maintained and managed router. Upload 9Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>100-Base-TX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					





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12	InFRaM @ 10Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 10Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI037
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 10Mbps. Includes dedicated Internet port at 10Mbps and transport at 10Mbps, and a Contractor owned, maintained and managed router. Upload 10Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
13	InFRaM @ 10.5Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 10.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI040
Bidder's Product Description: Internet Flat Rate Service with Managed Router (InFRaM) at 15Mbps. Includes dedicated Internet port, transport at 20Mbps , and a Contractor owned, maintained and managed router. Upload 15Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
14	InFRaM @ 12Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 12Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI040
Bidder's Product Description: Internet Flat Rate Service with Managed Router (InFRaM) at 15Mbps. Includes dedicated Internet port, transport at 20Mbps , and a Contractor owned, maintained and managed router. Upload 15Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					





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15	InFRaM @ 15Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 15Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI040
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port at 15Mbps and transport at 20Mbps, and a Contractor owned, maintained and managed router. Upload 15Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
16	InFRaM @ 20Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 20Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI041
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 20Mbps. Includes dedicated Internet port at 20Mbps and transport at 20Mbps, and a Contractor owned, maintained and managed router. Upload 20Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
17	InFRaM @ 25Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 25Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI042
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 25Mbps. Includes dedicated Internet port at 25Mbps and transport at 50Mbps, and a Contractor owned, maintained and managed router. Upload 25Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
18	InFRaM @ 30Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 30Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI043
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 30Mbps. Includes dedicated Internet port at 30Mbps and transport at 50Mbps, and a Contractor owned, maintained and managed router. Upload 30Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
19	InFRaM @ 35Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 35Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI044
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 35Mbps. Includes dedicated Internet port at 35Mbps and transport at 50Mbps, and a Contractor owned, maintained and managed router. Upload 35Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
20	InFRaM @ 40Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 40Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI045
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 40Mbps. Includes dedicated Internet port at 40Mbps and transport at 50Mbps, and a Contractor owned, maintained and managed router. Upload 40Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
21	InFRaM @ 45Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 45Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI046
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 45Mbps. Includes dedicated Internet port at 45Mbps and transport at 50Mbps, and a Contractor owned, maintained and managed router. Upload 45Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
22	InFRaM @ 60Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 60Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI047
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 60Mbps. Includes dedicated Internet port at 60Mbps and transport at 100Mbps, and a Contractor owned, maintained and managed router. Upload 60Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 100-Base-TX Ethernet					
Protocol: IPv4/v6 over Ethernet					
23	InFRaM @ 155Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 155Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI048
Bidder's Product Description: Internet Flat Rate Service (InFRa) at 155Mbps. Includes dedicated Internet port at 155Mbps and transport at 250Mbps, and a Contractor owned, maintained and managed router. Upload at 155Mbps.					
Interface/Access Type: Ethernet Interface					
Network Side Interface: 1000-Base-SX/LX Ethernet					
Protocol: IPv4/v6 over Ethernet					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
24	InFRaM @ 622Mbps	Internet Flat Rate Service with Managed Router (InFRaM) at 622Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI049
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 622Mbps. Includes dedicated Internet port at 622Mbps and transport at 1000Mbps, and a Contractor owned, maintained and managed router. Upload at 622Mbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>1000-Base-SX/LX Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					
25	InFRaM @ 2.45Gbps	Internet Flat Rate Service with Managed Router (InFRaM) at 2.45Gbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		MI050
Bidder's Product Description: <b>Internet Flat Rate Service (InFRa) at 2.5Gbps. Includes dedicated Internet port at 2.5Gbps and transport at 10000Mbps, and a Contractor owned, maintained and managed router. Upload at 2.5Gbps.</b>					
Interface/Access Type: <b>Ethernet Interface</b>					
Network Side Interface: <b>10G-Base LSR Ethernet</b>					
Protocol: <b>IPv4/v6 over Ethernet</b>					

Table 5.2.4.2.c – Unsolicited Internet Flat Rate with Managed Router Service

	Feature Name	Feature Description	Bidder's Product Identifier
1	Flat Rate Internet with Managed Router 10Mbps	Internet Flat Rate Service at 10Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI059
Bidder's Product Description: <b>Internet Flat Rate Service at 10Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 10Mbps.</b>			
Interface/Access Type: <b>Private Line Service (PLS)</b>			
Network Side Interface: <b>T3</b>			





	Feature Name	Feature Description	Bidder's Product Identifier
	Protocol: IPv4/v6 over PLS		
2	Flat Rate Internet with Managed Router 15Mbps	Internet Flat Rate Service at 15Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI060
	Bidder's Product Description: Internet Flat Rate Service at 15Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 15Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
3	Flat Rate Internet with Managed Router 20Mbps	Internet Flat Rate Service at 20Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI061
	Bidder's Product Description: Internet Flat Rate Service at 20Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 20Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
4	Flat Rate Internet with Managed Router 25Mbps	Internet Flat Rate Service at 25Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI062
	Bidder's Product Description: Internet Flat Rate Service at 25Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 25Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
5	Flat Rate Internet with Managed Router 30Mbps	Internet Flat Rate Service at 30Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI063
	Bidder's Product Description: Internet Flat Rate Service at 30Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 30Mbps.		
	Interface/Access Type: Private Line Service (PLS)		





	Feature Name	Feature Description	Bidder's Product Identifier
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
6	Flat Rate Internet with Managed Router 35Mbps	Internet Flat Rate Service at 35Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI064
	Bidder's Product Description: Internet Flat Rate Service at 35Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 35Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
7	Flat Rate Internet with Managed Router 40Mbps	Internet Flat Rate Service at 40Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI065
	Bidder's Product Description: Internet Flat Rate Service at 40Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 40Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
8	Flat Rate Internet with Managed Router 45Mbps	Internet Flat Rate Service at 45Mbps. Includes dedicated Internet port and T3 transport, maintained and managed router.	MI066
	Bidder's Product Description: Internet Flat Rate Service at 45Mbps. Includes dedicated Internet port and transport at DS3 rate, maintained and managed router. Upload at 45Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: T3		
	Protocol: IPv4/v6 over PLS		
9	Flat Rate Internet with Managed Router 3Mbps	Internet Flat Rate Service at 3Mbps. Includes dedicated Internet port and 2xT1 transport, maintained and managed router.	MI207
	Bidder's Product Description: Internet Flat Rate Service at 3Mbps. Includes dedicated Internet port and transport at 2xDS1 rate, maintained and managed router. Upload at 3Mbps.		





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	Feature Name	Feature Description	Bidder's Product Identifier
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 2xT1		
	Protocol: IPv4/v6 over PLS		
10	Flat Rate Internet with Managed Router 4.5Mbps	Internet Flat Rate Service at 4.5Mbps. Includes dedicated Internet port and 3xT1 transport, maintained and managed router.	MI208
	Bidder's Product Description: Internet Flat Rate Service at 4.5Mbps. Includes dedicated Internet port and transport at 3xDS1 rate, maintained and managed router. Upload at 4.5Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 3xT1		
	Protocol: IPv4/v6 over PLS		
11	Flat Rate Internet with Managed Router 6Mbps	Internet Flat Rate Service at 6Mbps. Includes dedicated Internet port and 4xT1 transport, maintained and managed router.	MI209
	Bidder's Product Description: Internet Flat Rate Service at 6Mbps. Includes dedicated Internet port and transport at 4xDS1 rate, maintained and managed router. Upload at 6Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 4xT1		
	Protocol: IPv4/v6 over PLS		
12	Flat Rate Internet with Managed Router 7.5Mbps	Internet Flat Rate Service at 7.5Mbps. Includes dedicated Internet port and 5xT1 transport, maintained and managed router.	MI210
	Bidder's Product Description: Internet Flat Rate Service at 7.5Mbps. Includes dedicated Internet port and transport at 5xDS1 rate, maintained and managed router. Upload at 7.5Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 5xT1		
	Protocol: IPv4/v6 over PLS		
13	Flat Rate Internet with Managed Router 9Mbps	Internet Flat Rate Service at 9Mbps. Includes dedicated Internet port and 6xT1 transport, maintained and managed router.	MI211





	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Internet Flat Rate Service at 9Mbps. Includes dedicated Internet port and transport at 6xDS1 rate, maintained and managed router. Upload at 9Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 6xT1		
	Protocol: IPv4/v6 over PLS		
14	Flat Rate Internet with Managed Router 10.5Mbps	Internet Flat Rate Service at 10.5Mbps. Includes dedicated Internet port and 7xT1 transport, maintained and managed router.	MI212
	Bidder's Product Description: Internet Flat Rate Service at 10.5Mbps. Includes dedicated Internet port and transport at 7xDS1 rate, maintained and managed router. Upload at 10.5Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 6xT1		
	Protocol: IPv4/v6 over PLS		
15	Flat Rate Internet with Managed Router 12Mbps	Internet Flat Rate Service at 12Mbps. Includes dedicated Internet port and 8xT1 transport, maintained and managed router.	MI213
	Bidder's Product Description: Internet Flat Rate Service at 12Mbps. Includes dedicated Internet port and transport at 8xDS1 rate, maintained and managed router. Upload at 12Mbps.		
	Interface/Access Type: Private Line Service (PLS)		
	Network Side Interface: 8xT1		
	Protocol: IPv4/v6 over PLS		

### 5.2.5 Internet Sustained Bandwidth Ethernet Service (InSBE)

The Contractor shall provide Internet Sustained Bandwidth Ethernet Service (InSBE). The service shall consist of a separately provisioned dedicated Internet port and transport from the Customer site to the nearest Contractor POP.

Service shall allow Customers to order Ethernet access at a specific data rate and to select a minimum monthly bandwidth commitment. Customers then pay an additional fee for sustained usage above the minimum commitment. Service shall allow Customers to "burst" up to the full capacity of the data rate assigned to the transport when needed.

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





### **5.2.5.1 Internet Sustained Bandwidth Ethernet Transport Service (InSBET)**

The Internet Sustained Bandwidth Ethernet Transport Service (InSBET) transport service shall include all equipment, cabling and labor required to provide a User-to-Network Interface (UNI) at the Customer premise MPOE.

Transport shall be provisioned at the data rates listed in Table 5.2.5.1.b. The assigned data rate shall be the maximum data rate a Customer may burst up to.

This service shall be provisioned in conjunction with Customer and Contractor owned, maintained and managed router options as identified in Section 5.2.5.2 (InSBEP) and Section 5.2.5.3 (InSBEPM).

The service shall provide the User-to-Network Interface characteristics listed in Table 5.2.5.1.a.



Table 5.2.5.1.a – UNI Type

	Interface/Access Type	Network-Side Interface	Protocol
1	Ethernet Interface	1 Mbps up to 1 GbE (Gigabit Ethernet) 10 GbE	IPv4/v6 over Ethernet

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

Bidders shall provide the InSBET services detailed in Table 5.2.5.1.b

Table 5.2.5.1.b – InSBET Service

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	InSBET 100-Base-TX 2 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 2Mbps.	Y		LNET2
Bidder's Product Description: 100-Base-TX 2 Mbps Ethernet Transport to POP					
2	InSBET 100-Base-TX 4 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 4Mbps	Y		LNET4
Bidder's Product Description: 100-Base-TX 4 Mbps Ethernet Transport to POP					
3	InSBET 100-Base-TX 5 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 5Mbps	Y		LNET5
Bidder's Product Description: 100-Base-TX 5 Mbps Ethernet Transport to POP					
4	InSBET 100-Base-TX 8 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 8Mbps	Y		LNET8
Bidder's Product Description: 100-Base-TX 8 Mbps Ethernet Transport to POP					
5	InSBET 100-Base-TX 10 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 10Mbps	Y		LNET10





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: <b>100-Base-TX 10 Mbps Ethernet Transport to POP</b>			
6	InSBET 100-Base-TX 20 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 20Mbps	Y	LNET20
	Bidder's Product Description: <b>100-Base-TX 20 Mbps Ethernet Transport to POP</b>			
7	InSBET 100-Base-TX 50 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 50Mbps	Y	LNET50
	Bidder's Product Description: <b>100-Base-TX 50 Mbps Ethernet Transport to POP</b>			
8	InSBET 100-Base-TX 100 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 100Mbps	Y	LNET100
	Bidder's Product Description: <b>100-Base-TX 100 Mbps Ethernet Transport to POP</b>			
9	InSBET 1000-Base-TX 150 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 150Mbps	Y	LNET150
	Bidder's Product Description: <b>1000-Base-SX/LX 150 Mbps Ethernet Transport to POP</b>			
10	InSBET 1000-Base-TX 250 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 250Mbps	Y	LNET250
	Bidder's Product Description: <b>1000-Base-SX/LX 250 Mbps Ethernet Transport to POP</b>			
11	InSBET 1000-Base-TX 500 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 500Mbps	Y	LNET500
	Bidder's Product Description: <b>1000-Base-SX/LX 500 Mbps Ethernet Transport to POP</b>			
12	InSBET 1000-Base-TX 1000 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 1000Mbps	Y	LNET1G
	Bidder's Product Description: <b>1000-Base-SX/LX 1 Gbps Ethernet Transport to POP</b>			





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
13	InSBET 10G-Base-LSR 10,000 Mbps Ethernet Transport	InSBET Service with maximum burstable data rate of 10Gbps	Y		LNET10G
Bidder's Product Description: 10G-Base LSR 10 Gbps Ethernet Transport to POP					

Bidders may offer additional unsolicited InSBET services in Table 5.2.5.1.c

Table 5.2.5.1.c – Unsolicited InSBET Services

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	1000-Base-TX 600 Mbps Ethernet Transport	Ethernet Transport Service with maximum burstable data rate of 600Mbps	Y		LNET600
Bidder's Product Description: 1000-Base-SX/LX 600 Mbps Ethernet Transport to POP					

### 5.2.5.2 Internet Sustained Bandwidth Ethernet Port Service (InSBEP)

Contractor shall provide Internet Sustained Bandwidth Ethernet Port Service. Contractor shall provide an Internet port configuration that allows Customers to select a monthly minimum bandwidth commitment. Customers then pay an additional incremental usage charge for sustained usage above the monthly minimum bandwidth commitment. Service shall allow Customers to "burst" up to the full capacity of the InSBET when needed. This service shall be provisioned in conjunction with a Customer owned router.

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

#### 5.2.5.2.1 InSBEP Minimum Bandwidth Commitment

Contractor shall provide InSBEP Minimum Bandwidth Commitment port configuration that allows Customers to select a monthly minimum bandwidth commitment as described in Table 5.2.5.2.a.

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





### 5.2.5.2.2 InSBEP Additional Incremental Usage Charge for Sustained Usage

Contractor may charge an incremental usage charge for sustained usage above the minimum bandwidth commitment speed identified.

Contractor shall calculate sustained usage as follows:

1. Poll Access Router every five (5) minutes and collect two (2) readings (average Octets in and Octets out over the five (5) minute period);
2. Both averages become data points (a total of 17,280 in a 30 day bill cycle) that are tracked over the Customer's monthly billing cycle;
3. All 17,280 data points are ranked in ascending order;
4. Discard the highest five (5) percentiles (or 864 measurements in a 30 day bill cycle); and
5. The remaining ninety-fifth percentile is the Sustained Usage value for billing purposes.

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

Table 5.2.5.2.a – InSBEP Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 100-Base-TX 2 Mbps through 1000-Base-SX/LX 1000 Mbps Ethernet Transport (NOT to be provisioned with InSBET 10G-Base-LSR 10,000 Mbps Ethernet Transport - see Table 5.2.5.2.b)

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	InSBEP Minimum Bandwidth Commitment Ethernet 2 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8301
Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 2 Mbps</b>					
2	InSBEP Additional Incremental Usage Charge over 2 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI400
Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>					
3	InSBEP Minimum Bandwidth Commitment Ethernet 3 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8302



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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 3 Mbps</b>				
4	InSBEP Additional Incremental Usage Charge over 3 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI401
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>				
5	InSBEP Minimum Bandwidth Commitment Ethernet 4 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8303
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 4 Mbps</b>				
6	InSBEP Additional Incremental Usage Charge over 4 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI402
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>				
7	InSBEP Minimum Bandwidth Commitment Ethernet 5 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8304
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 5 Mbps</b>				
8	InSBEP Additional Incremental Usage Charge over 5 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI403
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>				
9	InSBEP Minimum Bandwidth Commitment Ethernet 6 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8305
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 6 Mbps</b>				





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
10	InSBEP Additional Incremental Usage Charge over 6 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI404
Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>					
11	InSBEP Minimum Bandwidth Commitment Ethernet 7 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8306
Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 7 Mbps</b>					
12	InSBEP Additional Incremental Usage Charge over 7 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI405
Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>					
13	InSBEP Minimum Bandwidth Commitment Ethernet 8 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8307
Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 8 Mbps</b>					
14	InSBEP Additional Incremental Usage Charge over 8 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI406
Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>					
15	InSBEP Minimum Bandwidth Commitment Ethernet 9 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8308
Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 9 Mbps</b>					
16	InSBEP Additional Incremental Usage Charge over 9 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI407





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>				
17	InSBEP Minimum Bandwidth Commitment Ethernet 10 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8309
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 10 Mbps</b>				
18	InSBEP Additional Incremental Usage Charge over 10 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI408
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment.</b>				
19	InSBEP Minimum Bandwidth Commitment Ethernet 15 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8310
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 15 Mbps</b>				
20	InSBEP Additional Incremental Usage Charge over 15 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI409
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment</b>				
21	InSBEP Minimum Bandwidth Commitment Ethernet 20 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8311
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 20 Mbps</b>				
22	InSBEP Additional Incremental Usage Charge over 20 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI410
	Bidder's Product Description: <b>Charge for bandwidth usage over minimum commitment</b>				
23	InSBEP Minimum Bandwidth Commitment Ethernet 25 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8312
	Bidder's Product Description: <b>MIS Minimum Bandwidth Commitment Ethernet 25 Mbps</b>				





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
24	InSBEP Additional Incremental Usage Charge over 25 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI411
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
25	InSBEP Minimum Bandwidth Commitment Ethernet 30 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8313
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 30 Mbps					
26	InSBEP Additional Incremental Usage Charge over 30 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI412
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
27	InSBEP Minimum Bandwidth Commitment Ethernet 35 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8314
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 35 Mbps					
28	InSBEP Additional Incremental Usage Charge over 35 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI413
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
29	InSBEP Minimum Bandwidth Commitment Ethernet 40 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8315
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 40 Mbps					
30	InSBEP Additional Incremental Usage Charge over 40 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI414
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
31	InSBEP Minimum Bandwidth Commitment Ethernet 45 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8316
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 45 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
32	InSBEP Additional Incremental Usage Charge over 45 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI415
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
33	InSBEP Minimum Bandwidth Commitment Ethernet 50 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8382
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 50 Mbps					
34	InSBEP Additional Incremental Usage Charge over 50 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI416
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
35	InSBEP Minimum Bandwidth Commitment Ethernet 60 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8317
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 60 Mbps					
36	InSBEP Additional Incremental Usage Charge over 60 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI417
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
37	InSBEP Minimum Bandwidth Commitment Ethernet 70 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8318
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 70 Mbps					
38	InSBEP Additional Incremental Usage Charge over 70 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI418
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
39	InSBEP Minimum Bandwidth Commitment Ethernet 80 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8319
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 80 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
40	InSBEP Additional Incremental Usage Charge over 80 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI419
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
41	InSBEP Minimum Bandwidth Commitment Ethernet 90 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8320
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 90 Mbps					
42	InSBEP Additional Incremental Usage Charge over 90 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI420
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
43	InSBEP Minimum Bandwidth Commitment Ethernet 100 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8321
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 100 Mbps					
44	InSBEP Additional Incremental Usage Charge over 100 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI421
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
45	InSBEP Minimum Bandwidth Commitment Ethernet 120 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8346
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 120 Mbps					
46	InSBEP Additional Incremental Usage Charge over 120 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI422
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
47	InSBEP Minimum Bandwidth Commitment Ethernet 144 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8347
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 144 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
48	InSBEP Additional Incremental Usage Charge over 144 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI423
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
49	InSBEP Minimum Bandwidth Commitment Ethernet 155 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8348
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 155 Mbps					
50	InSBEP Additional Incremental Usage Charge over 155 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI424
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
51	InSBEP Minimum Bandwidth Commitment Ethernet 200 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8349
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 200 Mbps					
52	InSBEP Additional Incremental Usage Charge over 200 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI425
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
53	InSBEP Minimum Bandwidth Commitment Ethernet 250 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8350
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 250 Mbps					
54	InSBEP Additional Incremental Usage Charge over 250 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI426
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
55	InSBEP Minimum Bandwidth Commitment Ethernet 300 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8351
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 300 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
56	InSBEP Additional Incremental Usage Charge over 300 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI427
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
57	InSBEP Minimum Bandwidth Commitment Ethernet 350 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8352
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 350 Mbps					
58	InSBEP Additional Incremental Usage Charge over 350 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI428
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
59	InSBEP Minimum Bandwidth Commitment Ethernet 400 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8353
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 400 Mbps					
60	InSBEP Additional Incremental Usage Charge over 400 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI429
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
61	InSBEP Minimum Bandwidth Commitment Ethernet 450 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8354
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 450 Mbps					
62	InSBEP Additional Incremental Usage Charge over 450 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI430
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
63	InSBEP Minimum Bandwidth Commitment Ethernet 500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8355
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 500 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
64	InSBEP Additional Incremental Usage Charge over 500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI431
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
65	InSBEP Minimum Bandwidth Commitment Ethernet 550 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8356
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 550 Mbps					
66	InSBEP Additional Incremental Usage Charge over 550 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI432
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
67	InSBEP Minimum Bandwidth Commitment Ethernet 600 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8357
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 600 Mbps					
68	InSBEP Additional Incremental Usage Charge over 600 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI433
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
69	InSBEP Minimum Bandwidth Commitment Ethernet 622 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8358
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 622 Mbps					
70	InSBEP Additional Incremental Usage Charge over 622 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI434
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
71	InSBEP Minimum Bandwidth Commitment Ethernet 700 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8359
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 700 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
72	InSBEP Additional Incremental Usage Charge over 700 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI435
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
73	InSBEP Minimum Bandwidth Commitment Ethernet 800 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8360
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 800 Mbps					
74	InSBEP Additional Incremental Usage Charge over 800 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI436
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
75	InSBEP Minimum Bandwidth Commitment Ethernet 900 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8361
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 900 Mbps					
76	InSBEP Additional Incremental Usage Charge over 900 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI437
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
77	InSBEP Minimum Bandwidth Commitment Ethernet 1000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8362
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 1000 Mbps					
78	InSBEP Additional Incremental Usage Charge over 1000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI438
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					

Table 5.2.5.2.b – 10G InSBEP Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 10G-Base-LSR 10,000 Mbps (to be provisioned with InSBET 10G-Base-LSR 10,000 Mbps Ethernet Transport)





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	10G InSBEP Minimum Bandwidth Commitment Ethernet 1500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8385
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 1500 Mbps					
2	10G InSBEP Additional Incremental Usage Charge over 1500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI439
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
3	10G InSBEP Minimum Bandwidth Commitment Ethernet 2000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8386
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 2000 Mbps					
4	10G InSBEP Additional Incremental Usage Charge over 2000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI440
Bidder's Product Description: : Charge for bandwidth usage over minimum commitment					
5	10G InSBEP Minimum Bandwidth Commitment Ethernet 2500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8387
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 2500 Mbps					
6	10G InSBEP Additional Incremental Usage Charge over 2500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI441
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
7	10G InSBEP Minimum Bandwidth Commitment Ethernet 3000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8388
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 3000 Mbps					
8	10G InSBEP Additional Incremental Usage Charge over 3000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI442
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
9	10G InSBEP Minimum Bandwidth Commitment Ethernet 3500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8389
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 3500 Mbps					
10	10G InSBEP Additional Incremental Usage Charge over 3500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI443
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
11	10G InSBEP Minimum Bandwidth Commitment Ethernet 4000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8390
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 4000 Mbps					
12	10G InSBEP Additional Incremental Usage Charge over 4000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI444
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
13	10G InSBEP Minimum Bandwidth Commitment Ethernet 4500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8391
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 4500 Mbps					
14	10G InSBEP Additional Incremental Usage Charge over 4500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI445
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
15	10G InSBEP Minimum Bandwidth Commitment Ethernet 5000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8392
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 5000 Mbps					
16	10G InSBEP Additional Incremental Usage Charge over 5000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI446
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
17	10G InSBEP Minimum Bandwidth Commitment Ethernet 5500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8393
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 5500 Mbps					
18	10G InSBEP Additional Incremental Usage Charge over 5500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI447
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
19	10G InSBEP Minimum Bandwidth Commitment Ethernet 6000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8394
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 6000 Mbps					
20	10G InSBEP Additional Incremental Usage Charge over 6000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI448
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
21	10G InSBEP Minimum Bandwidth Commitment Ethernet 6500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8395
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 6500 Mbps					
22	10G InSBEP Additional Incremental Usage Charge over 6500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI449
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
23	10G InSBEP Minimum Bandwidth Commitment Ethernet 7000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8396
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 7000 Mbps					
24	10G InSBEP Additional Incremental Usage Charge over 7000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI450
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
25	10G InSBEP Minimum Bandwidth Commitment Ethernet 7500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8397
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 7500 Mbps					
26	10G InSBEP Additional Incremental Usage Charge over 7500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI451
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
27	10G InSBEP Minimum Bandwidth Commitment Ethernet 8000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8398
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 8000 Mbps					
28	10G InSBEP Additional Incremental Usage Charge over 8000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI452
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
29	10G InSBEP Minimum Bandwidth Commitment Ethernet 8500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8399
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 8500 Mbps					
30	10G InSBEP Additional Incremental Usage Charge over 8500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI453
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
31	10G InSBEP Minimum Bandwidth Commitment Ethernet 9000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8400
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 9000 Mbps					
32	10G InSBEP Additional Incremental Usage Charge over 9000 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI454
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
33	10G InSBEP Minimum Bandwidth Commitment Ethernet 9500 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8401
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 9500 Mbps					
34	10G InSBEP Additional Incremental Usage Charge over 9500 Mbps	Charge for bandwidth usage over minimum commitment.	Y		MI455
Bidder's Product Description: Charge for bandwidth usage over minimum commitment					
35	10G InSBEP Minimum Bandwidth Commitment Ethernet 10000 Mbps	Ethernet minimum monthly bandwidth commitment charge.	Y		8402
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet 10000 Mbps					

**5.2.5.3 Internet Sustained Bandwidth Ethernet Port with Managed Router Service (InSBEPM)**

Contractor shall provide Internet Sustained Bandwidth Ethernet Port with Managed Router Service. Contractor shall provide a port configuration that allows Customers to select a monthly minimum bandwidth commitment. Customers then pay an additional incremental usage charge for sustained usage above the monthly minimum bandwidth commitment. Service shall allow Customers to "burst" up to the full capacity of the InSBET when needed.

The service shall include a Contractor owned, maintained and managed router. Bidder shall provide a description of the type of equipment, maintenance and management services that the Contractor will deploy to satisfy this requirement.

All Bidder equipment, tasks and services required for provisioning of the services described in Tables 5.2.5.3.a and 5.2.5.3.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.5.3.c.

The Contractors managed router service shall include proactive Customer notification as identified in the Service Level Agreements.

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

*Description:*





Under MIS with Managed Router AT&T provides, configures, monitors, manages and maintains the CPE necessary to use MIS, which consists of a router and a diagnostic modem. Customer is required to maintain a dedicated telephone line that will be used only with the diagnostic modem for out-of-band testing. The Cisco router model used for MIS with Managed Router is determined by AT&T based on the speed, transport type, and other parameters of the service ordered.

AT&T has full management and operational control (including passwords) of the AT&T CPE. AT&T coordinates required software updates and configuration changes to AT&T CPE. AT&T technicians will work remotely with Customer to diagnose failures and determine if AT&T CPE should be replaced or repaired. If AT&T owned and managed CPE is defective, on-site service is provided. The service will include necessary replacement CPE (as determined by AT&T) as well as assistance from the AT&T technician who will arrive on Customer's site to facilitate the CPE replacement. AT&T reserves the right, at any time and at its sole discretion, to substitute AT&T CPE (or any of its parts) with another functionally equivalent piece of hardware.

## **Proactive Monitoring and Notification**

AT&T proactively monitors the health and status of MIS customer ports using either a trap-based or poll-based system. Basic ports (excluding Ethernet and MIS with Managed Router) are monitored using a trap-based platform. The platform monitors the interface on the MIS edge router. If the interface on the MIS edge router changes state an event/trap is generated and sent to another automated system for processing and automatic creation of a trouble ticket.

There are 2 types of Alarms detected by the trap-based system:

1. **Hard Down:** The interface on the MIS Edge router changes state and remains in a down state for 12 minutes.
2. **Bouncing:** The interface on the MIS edge router bounces 6 times in 10 minutes.

MIS with Managed Router and Ethernet ports are monitored using a poll-based system. The CPE is pinged once every two minutes; alarms are aged 12 minutes before a trouble ticket is opened automatically. Should the customer lose commercial power to his premise, this would be reported by this system as an outage as an alarm/trap would be registered by the monitoring system.

If the results of these polls/traps indicate a connectivity failure, a ticket is generated by the automated system. Simultaneously the trouble ticket is posted to BusinessDirect® and



notification is emailed to all technical customer contacts on record, AT&T automated systems then perform a diagnosis on the port/circuit in an effort to isolate the trouble.

After the initial diagnosis is complete, the ticket is routed to the first available technical support engineer in the appropriate customer care center. The Technical Support Engineer then works with other technical support organizations within AT&T and externally until the trouble is resolved. As part of the resolution process, the Technical Support Engineer may also have to contact the customer.

When the impairment is resolved, the trouble ticket is closed.

## **AT&T Security Measures for Managed Routers**

AT&T uses the Authentication, Authorization, and Accounting (AAA) framework to provide secured interactive access to managed network devices. TACACS+ (Terminal Access Controller Access Control System Plus) is the protocol used on AT&T managed Cisco IOS devices for authentication of management users against a remote AAA server. TACACS+ authentication provides the ability to utilize individual user identification.

In addition, command Authorization is implemented to provide a mechanism to control the command that is entered by a user based on a configured policy in order to permit or deny the command for that particular user and Accounting is used to send each EXEC command that is entered to the configured AAA server. The information sent includes the command executed, the date it was executed, and the username of the user entering the command.

AT&T requires its TACACS+ passwords be changed every thirty days. In addition, the managed router is configured with a “last resort password” to enable access to the device in the event of a complete failure of the network connectivity and authentication system.

Last resort passwords are updated annually as per AT&T Security Policy Requirements. Last resort passwords (line password and secret password) are implemented to provide access for management users in the event that all configured AAA servers become unavailable due to Transport/network failures and are available only to authorized users.

### **5.2.5.3.1 InSBEPM Minimum Bandwidth Commitment**

Contractor shall provide InSBEPM Minimum Bandwidth Commitment port configuration that allows Customers to select a monthly minimum bandwidth commitment as described in Table 5.2.5.3. This service shall include a Contractor owned, maintained and managed router with service commitments as described in the Bidder's response to Section 5.2.5.3.



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

**5.2.5.3.2 InSBEPM Additional Incremental Usage Charge for Sustained Usage**

Contractor may charge an incremental usage charge for sustained usage above the minimum bandwidth commitment speed identified.

Contractor shall calculate Sustained usage as follows:

1. Poll Access Router every 5 minutes and collect two (2) readings (average Octets in and Octets out over the five (5) minute period);
2. Both averages become data points (a total of 17,280 in a 30 day bill cycle) that are tracked over the Customer's monthly billing cycle;
3. All 17,280 data points are ranked in ascending order;
4. Discard the top 5% (or 864 measurements in a 30 day bill cycle); and
5. The highest remaining data point is the Sustained Usage value for billing purposes.

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

Table 5.2.5.3.a – InSBEPM Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 100-Base-TX 2 Mbps through 1000 Mbps Ethernet Transport (NOT to be provisioned with InSBET 10G Ethernet Transport. See Table 5.2.5.3.b)

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	InSBEPM Minimum Bandwidth Commitment Ethernet 2 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8323
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 2 Mbps					
2	InSBEPM Additional Incremental Usage Charge over 2 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI500
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
3	InSBEPM Minimum Bandwidth Commitment Ethernet 3 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8324





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 3 Mbps				
4	InSBEPM Additional Incremental Usage Charge over 3 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI501
	Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.				
5	InSBEPM Minimum Bandwidth Commitment Ethernet 4 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8325
	Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 4 Mbps				
6	InSBEPM Additional Incremental Usage Charge over 4 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI502
	Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.				
7	InSBEPM Minimum Bandwidth Commitment Ethernet 5 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8326
	Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 5 Mbps				
8	InSBEPM Additional Incremental Usage Charge over 5 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI503
	Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.				
9	InSBEPM Minimum Bandwidth Commitment Ethernet 6 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8327
	Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 6 Mbps				
10	InSBEPM Additional Incremental Usage Charge over 6 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI504
	Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.				
11	InSBEPM Minimum Bandwidth Commitment Ethernet 7 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8328
	Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 7 Mbps				





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
12	InSBEPM Additional Incremental Usage Charge over 7 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI505
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
13	InSBEPM Minimum Bandwidth Commitment Ethernet 8 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8329
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 8 Mbps					
14	InSBEPM Additional Incremental Usage Charge over 8 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI506
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
15	InSBEPM Minimum Bandwidth Commitment Ethernet 9 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8330
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 9 Mbps					
16	InSBEPM Additional Incremental Usage Charge over 9 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI507
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
17	InSBEPM Minimum Bandwidth Commitment Ethernet 10 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8331
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 10 Mbps					
18	InSBEPM Additional Incremental Usage Charge over 10 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI508
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
19	InSBEPM Minimum Bandwidth Commitment Ethernet 15 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8332
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 15 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
20	InSBEPM Additional Incremental Usage Charge over 15 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI509
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
21	InSBEPM Minimum Bandwidth Commitment Ethernet 20 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8333
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 20 Mbps					
22	InSBEPM Additional Incremental Usage Charge over 20 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI510
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
23	InSBEPM Minimum Bandwidth Commitment Ethernet 25 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8334
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 25 Mbps					
24	InSBEPM Additional Incremental Usage Charge over 25 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI511
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
25	InSBEPM Minimum Bandwidth Commitment Ethernet 30 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8335
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 30 Mbps					
26	InSBEPM Additional Incremental Usage Charge over 30 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI512
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
27	InSBEPM Minimum Bandwidth Commitment Ethernet 35 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8336
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 35 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
28	InSBEPM Additional Incremental Usage Charge over 35 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI513
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
29	InSBEPM Minimum Bandwidth Commitment Ethernet 40 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8337
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 40 Mbps					
30	InSBEPM Additional Incremental Usage Charge over 40 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI514
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
31	InSBEPM Minimum Bandwidth Commitment Ethernet 45 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8338
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 45 Mbps					
32	InSBEPM Additional Incremental Usage Charge over 45 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI515
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
33	InSBEPM Minimum Bandwidth Commitment Ethernet 50 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8383
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 50 Mbps					
34	InSBEPM Additional Incremental Usage Charge over 50 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI516
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
35	InSBEPM Minimum Bandwidth Commitment Ethernet 60 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8339
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 60 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
36	InSBEPM Additional Incremental Usage Charge over 60 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI517
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
37	InSBEPM Minimum Bandwidth Commitment Ethernet 70 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8340
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 70 Mbps					
38	InSBEPM Additional Incremental Usage Charge over 70 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI518
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
39	InSBEPM Minimum Bandwidth Commitment Ethernet 80 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8341
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 80 Mbps					
40	InSBEPM Additional Incremental Usage Charge over 80 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI519
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
41	InSBEPM Minimum Bandwidth Commitment Ethernet 90 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8342
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 90 Mbps					
42	InSBEPM Additional Incremental Usage Charge over 90 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI520
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
43	InSBEPM Minimum Bandwidth Commitment Ethernet 100 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8343
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 100 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
44	InSBEPM Additional Incremental Usage Charge over 100 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI521
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
45	InSBEPM Minimum Bandwidth Commitment Ethernet 120 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8365
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 120 Mbps					
46	InSBEPM Additional Incremental Usage Charge over 120 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI522
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment.					
47	InSBEPM Minimum Bandwidth Commitment Ethernet 144 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8366
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 144 Mbps					
48	InSBEPM Additional Incremental Usage Charge over 144 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI523
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
49	InSBEPM Minimum Bandwidth Commitment Ethernet 155 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8367
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 155 Mbps					
50	InSBEPM Additional Incremental Usage Charge over 155 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI524
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
51	InSBEPM Minimum Bandwidth Commitment Ethernet 200 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8368
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 200 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
52	InSBEPM Additional Incremental Usage Charge over 200 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI525
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
53	InSBEPM Minimum Bandwidth Commitment Ethernet 250 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8369
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 250 Mbps					
54	InSBEPM Additional Incremental Usage Charge over 250 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI526
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
55	InSBEPM Minimum Bandwidth Commitment Ethernet 300 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8370
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 300 Mbps					
56	InSBEPM Additional Incremental Usage Charge over 300 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI527
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
57	InSBEPM Minimum Bandwidth Commitment Ethernet 350 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8371
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 350 Mbps					
58	InSBEPM Additional Incremental Usage Charge over 350 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI528
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
59	InSBEPM Minimum Bandwidth Commitment Ethernet 400 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8372
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 400 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
60	InSBEPM Additional Incremental Usage Charge over 400 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI529
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
61	InSBEPM Minimum Bandwidth Commitment Ethernet 450 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8373
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 450 Mbps					
62	InSBEPM Additional Incremental Usage Charge over 450 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI530
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
63	InSBEPM Minimum Bandwidth Commitment Ethernet 500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8374
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 500 Mbps					
64	InSBEPM Additional Incremental Usage Charge over 500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI531
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
65	InSBEPM Minimum Bandwidth Commitment Ethernet 550 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8375
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 550 Mbps					
66	InSBEPM Additional Incremental Usage Charge over 550 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI532
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
67	InSBEPM Minimum Bandwidth Commitment Ethernet 600 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8376
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 600 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
68	InSBEPM Additional Incremental Usage Charge over 600 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI533
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
69	InSBEPM Minimum Bandwidth Commitment Ethernet 622 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8377
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 622 Mbps					
70	InSBEPM Additional Incremental Usage Charge over 622 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI534
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
71	InSBEPM Minimum Bandwidth Commitment Ethernet 700 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8378
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 700 Mbps					
72	InSBEPM Additional Incremental Usage Charge over 700 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI535
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
73	InSBEPM Minimum Bandwidth Commitment Ethernet 800 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8379
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 800 Mbps					
74	InSBEPM Additional Incremental Usage Charge over 800 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI536
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
75	InSBEPM Minimum Bandwidth Commitment Ethernet 900 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8380
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 900 Mbps					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
76	InSBEPM Additional Incremental Usage Charge over 900 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI537
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
77	InSBEPM Minimum Bandwidth Commitment Ethernet 1000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		8381
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 1000 Mbps					
78	InSBEPM Additional Incremental Usage Charge over 1000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI538
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					

Table 5.2.5.3.b – InSBEPM Minimum Bandwidth Commitment and Incremental Usage Charge 10G (to be provisioned with InSBET 10G Ethernet Transport)

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	InSBEPM Minimum Bandwidth Commitment Ethernet 1500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI539
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 1500 Mbps					
2	InSBEP Additional Incremental Usage Charge over 1500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI540
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
3	InSBEPM Minimum Bandwidth Commitment Ethernet 2000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI541
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 2000 Mbps					
4	InSBEP Additional Incremental Usage Charge over 2000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI542





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
5	InSBEP Minimum Bandwidth Commitment Ethernet 2500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI543
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 2500 Mbps					
6	InSBEP Additional Incremental Usage Charge over 2500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI544
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
7	InSBEP Minimum Bandwidth Commitment Ethernet 3000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI545
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 3000 Mbps					
8	InSBEP Additional Incremental Usage Charge over 3000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI546
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
9	InSBEP Minimum Bandwidth Commitment Ethernet 3500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI547
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 3500 Mbps					
10	InSBEP Additional Incremental Usage Charge over 3500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI548
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
11	InSBEP Minimum Bandwidth Commitment Ethernet 4000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI549
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 4000 Mbps					
12	InSBEP Additional Incremental Usage Charge over 4000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI550
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					





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13	InSBEPM Minimum Bandwidth Commitment Ethernet 4500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI551
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 4500 Mbps					
14	InSBEP Additional Incremental Usage Charge over 4500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI552
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
15	InSBEPM Minimum Bandwidth Commitment Ethernet 5000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI553
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 5000 Mbps					
16	InSBEP Additional Incremental Usage Charge over 5000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI554
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
17	InSBEPM Minimum Bandwidth Commitment Ethernet 5500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI555
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 5500 Mbps					
18	InSBEP Additional Incremental Usage Charge over 5500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI556
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
19	InSBEPM Minimum Bandwidth Commitment Ethernet 6000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI557
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 6000 Mbps					
20	InSBEP Additional Incremental Usage Charge over 6000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI558
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
21	InSBEP Minimum Bandwidth Commitment Ethernet 6500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI559
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 6500 Mbps					
22	InSBEP Additional Incremental Usage Charge over 6500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI560
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
23	InSBEP Minimum Bandwidth Commitment Ethernet 7000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI561
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 7000 Mbps					
24	InSBEP Additional Incremental Usage Charge over 7000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI562
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
25	InSBEP Minimum Bandwidth Commitment Ethernet 7500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI563
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 7500 Mbps					
26	InSBEP Additional Incremental Usage Charge over 7500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI564
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
27	InSBEP Minimum Bandwidth Commitment Ethernet 8000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI565
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 8000 Mbps					
28	InSBEP Additional Incremental Usage Charge over 8000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI566
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
29	InSBEPM Minimum Bandwidth Commitment Ethernet 8500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI567
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 8500 Mbps					
30	InSBEP Additional Incremental Usage Charge over 8500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI568
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
31	InSBEPM Minimum Bandwidth Commitment Ethernet 9000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI569
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 9000 Mbps					
32	InSBEP Additional Incremental Usage Charge over 9000 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI570
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
33	InSBEPM Minimum Bandwidth Commitment Ethernet 9500 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI571
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 9500 Mbps					
34	InSBEP Additional Incremental Usage Charge over 9500 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		MI572
Bidder's Product Description: Charge for bandwidth usage over Minimum Bandwidth Commitment					
35	InSBEPM Minimum Bandwidth Commitment Ethernet 10000 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		MI573
Bidder's Product Description: MIS Minimum Bandwidth Commitment Ethernet w/Mgd Rtr 10000 Mbps					

### 5.2.6 Internet Service Geographic Requirements

Bidder shall identify the locations where their InFRa, InFRaM, InSBEP or InSBEPM Internet Services are available in Table 5.2.6.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. Bidders may reference Table 5.2.6.a or Table 5.2.6.b in their Catalog A, Geographic Availability response. Bidders Catalog A language shall not conflict with the requirements described herein.

Table 5.2.6.a Internet Service Geographic Requirements

	Service Location	InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEPM
1	Adelanto				
2	Agoura Hills	X	X	X	X
3	Alameda	X	X	X	X
4	Albany	X	X	X	X
5	Alhambra	X	X	X	X
6	Aliso Viejo	X	X	X	X
7	Alturas				
8	Amador				
9	American Canyon	X	X	X	X
10	Anaheim	X	X	X	X
11	Anderson	X	X	X	X
12	Angels Camp				
13	Antioch	X	X	X	X
14	Apple Valley				
15	Arcadia	X	X	X	X
16	Arcata	X	X	X	X
17	Arroyo Grande	X	X	X	X
18	Artesia				
19	Arvin	X	X	X	X
20	Atascadero	X	X	X	X
21	Atherton	X	X	X	X
22	Atwater	X	X	X	X
23	Auburn	X	X	X	X
24	Avalon	X	X	X	X
25	Avenal	X	X	X	X
26	Azusa				
27	Bakersfield	X	X	X	X
28	Baldwin Park	X	X	X	X
29	Banning				





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30	Barstow				
31	Beaumont				
32	Bell	X	X	X	X
33	Bell Gardens				
34	Bellflower	X	X	X	X
35	Belmont	X	X	X	X
36	Belvedere	X	X	X	X
37	Benicia	X	X	X	X
38	Berkeley	X	X	X	X
39	Beverly Hills	X	X	X	X
40	Big Bear Lake				
41	Biggs	X	X	X	X
42	Bishop				
43	Blue Lake	X	X	X	X
44	Blythe				
45	Bradbury				
46	Brawley	X	X	X	X
47	Brea	X	X	X	X
48	Brentwood	X	X	X	X
49	Brisbane	X	X	X	X
50	Buellton				
51	Buena Park	X	X	X	X
52	Burbank	X	X	X	X
53	Burlingame	X	X	X	X
54	Calabasas	X	X	X	X
55	Calexico	X	X	X	X
56	California City				
57	Calimesa				
58	Calipatria	X	X	X	X
59	Calistoga	X	X	X	X
60	Camarillo	X	X	X	X
61	Campbell	X	X	X	X





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62	Canyon Lake				
63	Capitola	X	X	X	X
64	Carlsbad	X	X	X	X
65	Carmel-By-The-Sea	X	X	X	X
66	Carpentaria				
67	Carson	X	X	X	X
68	Cathedral City				
69	Ceres	X	X	X	X
70	Cerritos				
71	Chico	X	X	X	X
72	Chino	X	X	X	X
73	Chino Hills				
74	Chowchilla	X	X	X	X
75	Chula Vista	X	X	X	X
76	Citrus Heights	X	X	X	X
77	Claremont	X	X	X	X
78	Clayton	X	X	X	X
79	Clearlake	X	X	X	X
80	Cloverdale	X	X	X	X
81	Coachella				
82	Coalinga	X	X	X	X
83	Colfax				
84	Colma	X	X	X	X
85	Colton	X	X	X	X
86	Colusa				
87	Commerce	X	X	X	X
88	Compton	X	X	X	X
89	Concord	X	X	X	X
90	Corcoran				
91	Corning	X	X	X	X
92	Corona	X	X	X	X
93	Coronado	X	X	X	X





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94	Corte Madera	X	X	X	X
95	Costa Mesa	X	X	X	X
96	Cotati	X	X	X	X
97	Covina				
98	Crescent City				
99	Cudahy	X	X	X	X
100	Culver City	X	X	X	X
101	Cupertino	X	X	X	X
102	Cypress	X	X	X	X
103	Daly City	X	X	X	X
104	Dana Point	X	X	X	X
105	Danville	X	X	X	X
106	Davis	X	X	X	X
107	Del Mar	X	X	X	X
108	Del Rey Oaks	X	X	X	X
109	Delano	X	X	X	X
110	Desert Hot Springs				
111	Diamond Bar	X	X	X	X
112	Dinuba	X	X	X	X
113	Dixon	X	X	X	X
114	Dorris				
115	Dos Palos				
116	Downey	X	X	X	X
117	Duarte				
118	Dublin	X	X	X	X
119	Dunsmuir	X	X	X	X
120	East Palo Alto	X	X	X	X
121	El Cajon	X	X	X	X
122	El Centro	X	X	X	X
123	El Cerrito	X	X	X	X
124	El Monte	X	X	X	X





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125	El Paso De Robles	X	X	X	X
126	El Segundo	X	X	X	X
127	Elk Grove	X	X	X	X
128	Emeryville	X	X	X	X
129	Encinitas	X	X	X	X
130	Escalon	X	X	X	X
131	Escondido	X	X	X	X
132	Etna				
133	Eureka	X	X	X	X
134	Exeter				
135	Fairfax	X	X	X	X
136	Fairfield	X	X	X	X
137	Farmersville	X	X	X	X
138	Ferndale				
139	Fillmore	X	X	X	X
140	Firebaugh	X	X	X	X
141	Folsom	X	X	X	X
142	Fontana	X	X	X	X
143	Fort Bragg	X	X	X	X
144	Fort Jones				
145	Fortuna	X	X	X	X
146	Foster City	X	X	X	X
147	Fountain Valley	X	X	X	X
148	Fowler				
149	Fremont	X	X	X	X
150	Fresno	X	X	X	X
151	Fullerton	X	X	X	X
152	Galt	X	X	X	X
153	Garden Grove	X	X	X	X
154	Gardena	X	X	X	X
155	Gilroy	X	X	X	X
156	Glendale	X	X	X	X





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157	Glendora	X	X	X	X
158	Goleta				
159	Gonzales	X	X	X	X
160	Grand Terrace	X	X	X	X
161	Grass Valley	X	X	X	X
162	Greenfield	X	X	X	X
163	Gridley	X	X	X	X
164	Grover Beach	X	X	X	X
165	Guadalupe				
166	Gustine	X	X	X	X
167	Half Moon Bay	X	X	X	X
168	Hanford	X	X	X	X
169	Hawaiian Gardens				
170	Hawthorne	X	X	X	X
171	Hayward	X	X	X	X
172	Healdsburg	X	X	X	X
173	Hemet				
174	Hercules	X	X	X	X
175	Hermosa Beach	X	X	X	X
176	Hesperia				
177	Hidden Hills	X	X	X	X
178	Highland	X	X	X	X
179	Hillsborough	X	X	X	X
180	Hollister	X	X	X	X
181	Holtville	X	X	X	X
182	Hughson	X	X	X	X
183	Humboldt				
184	Huntington Beach	X	X	X	X
185	Huntington Park	X	X	X	X
186	Huron	X	X	X	X
187	Imperial	X	X	X	X
188	Imperial Beach	X	X	X	X





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189	Indian Wells				
190	Indio				
191	Industry				
192	Inglewood	X	X	X	X
193	Inyo				
194	Ione	X	X	X	X
195	Irvine	X	X	X	X
196	Irwindale				
197	Isleton				
198	Jackson	X	X	X	X
199	Kerman				
200	Kern				
201	King City	X	X	X	X
202	Kings				
203	Kingsburg	X	X	X	X
204	La Canada Flintridge	X	X	X	X
205	La Habra	X	X	X	X
206	La Habra Heights				
207	La Mesa	X	X	X	X
208	La Mirada	X	X	X	X
209	La Palma				
210	La Puente	X	X	X	X
211	La Quinta				
212	La Verne				
213	Lafayette	X	X	X	X
214	Laguna Beach	X	X	X	X
215	Laguna Hills	X	X	X	X
216	Laguna Niguel	X	X	X	X
217	Laguna Woods	X	X	X	X
218	Lake				
219	Lake Elsinore	X	X	X	X
220	Lake Forest	X	X	X	X





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221	Lakeport	X	X	X	X
222	Lakewood	X	X	X	X
223	Lancaster	X	X	X	X
224	Larkspur	X	X	X	X
225	Lassen				
226	Lathrop				
227	Lawndale				
228	Lemon Grove	X	X	X	X
229	Lemoore	X	X	X	X
230	Lincoln	X	X	X	X
231	Lindsay				
232	Live Oak	X	X	X	X
233	Livermore	X	X	X	X
234	Livingston	X	X	X	X
235	Lodi	X	X	X	X
236	Loma Linda				
237	Lomita	X	X	X	X
238	Lompoc				
239	Long Beach	X	X	X	X
240	Loomis	X	X	X	X
241	Los Alamitos	X	X	X	X
242	Los Altos	X	X	X	X
243	Los Altos Hills	X	X	X	X
244	Los Angeles	X	X	X	X
245	Los Banos	X	X	X	X
246	Los Gatos	X	X	X	X
247	Loyalton	X	X	X	X
248	Lynwood	X	X	X	X
249	Madera	X	X	X	X
250	Malibu				
251	Mammoth Lakes				
252	Manhattan Beach	X	X	X	X





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253	Manteca				
254	Maricopa				
255	Marina	X	X	X	X
256	Martinez	X	X	X	X
257	Marysville	X	X	X	X
258	Maywood	X	X	X	X
259	McFarland				
260	Mendota	X	X	X	X
261	Menlo Park	X	X	X	X
262	Merced	X	X	X	X
263	Mill Valley	X	X	X	X
264	Millbrae	X	X	X	X
265	Milpitas	X	X	X	X
266	Mission Viejo	X	X	X	X
267	Modesto	X	X	X	X
268	Monrovia	X	X	X	X
269	Montague	X	X	X	X
270	Montclair	X	X	X	X
271	Monte Sereno				
272	Montebello	X	X	X	X
273	Monterey	X	X	X	X
274	Monterey Park	X	X	X	X
275	Moorpark	X	X	X	X
276	Moraga	X	X	X	X
277	Moreno Valley				
278	Morgan Hill	X	X	X	X
279	Morro Bay	X	X	X	X
280	Mount Shasta	X	X	X	X
281	Mountain View	X	X	X	X
282	Murrieta				
283	Napa	X	X	X	X
284	National City	X	X	X	X





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285	Needles				
286	Nevada City	X	X	X	X
287	Newark	X	X	X	X
288	Newman	X	X	X	X
289	Newport Beach	X	X	X	X
290	Norco	X	X	X	X
291	Norwalk	X	X	X	X
292	Novato	X	X	X	X
293	Oakdale	X	X	X	X
294	Oakland	X	X	X	X
295	Oakley	X	X	X	X
296	Oceanside	X	X	X	X
297	Ojai	X	X	X	X
298	Ontario	X	X	X	X
299	Orange	X	X	X	X
300	Orange Cove	X	X	X	X
301	Orinda	X	X	X	X
302	Orland	X	X	X	X
303	Oroville	X	X	X	X
304	Oxnard	X	X	X	X
305	Pacific Grove	X	X	X	X
306	Pacifica	X	X	X	X
307	Palm Desert				
308	Palm Springs				
309	Palmdale	X	X	X	X
310	Palo Alto	X	X	X	X
311	Palos Verdes Estates				
312	Paradise	X	X	X	X
313	Paramount	X	X	X	X
314	Parlier	X	X	X	X
315	Pasadena	X	X	X	X
316	Patterson				





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317	Perris				
318	Petaluma	X	X	X	X
319	Pico Rivera	X	X	X	X
320	Piedmont	X	X	X	X
321	Pinole	X	X	X	X
322	Pismo Beach	X	X	X	X
323	Pittsburg	X	X	X	X
324	Placentia	X	X	X	X
325	Placerville	X	X	X	X
326	Pleasant Hill	X	X	X	X
327	Pleasanton	X	X	X	X
328	Plymouth	X	X	X	X
329	Point Arena	X	X	X	X
330	Pomona	X	X	X	X
331	Port Hueneme	X	X	X	X
332	Porterville	X	X	X	X
333	Portola	X	X	X	X
334	Portola Valley	X	X	X	X
335	Poway	X	X	X	X
336	Rancho Cordova	X	X	X	X
337	Rancho Cucamonga	X	X	X	X
338	Rancho Mirage				
339	Rancho Palos Verdes				
340	Rancho Santa Margarita	X	X	X	X
341	Red Bluff	X	X	X	X
342	Redding	X	X	X	X
343	Redlands				
344	Redondo Beach	X	X	X	X
345	Redwood City	X	X	X	X
346	Reedley				





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347	Rialto	X	X	X	X
348	Richmond	X	X	X	X
349	Ridgecrest				
350	Rio Dell	X	X	X	X
351	Rio Vista				
352	Ripon	X	X	X	X
353	Riverbank	X	X	X	X
354	Riverside	X	X	X	X
355	Rocklin	X	X	X	X
356	Rohnert Park	X	X	X	X
357	Rolling Hills	X	X	X	X
358	Rolling Hills Estates				
359	Rosemead	X	X	X	X
360	Roseville	X	X	X	X
361	Ross	X	X	X	X
362	Sacramento	X	X	X	X
363	Salinas	X	X	X	X
364	San Anselmo	X	X	X	X
365	San Bernardino	X	X	X	X
366	San Bruno	X	X	X	X
367	San Buenaventura	X	X	X	X
368	San Carlos	X	X	X	X
369	San Clemente	X	X	X	X
370	San Diego	X	X	X	X
371	San Dimas				
372	San Fernando	X	X	X	X
373	San Francisco	X	X	X	X
374	San Gabriel	X	X	X	X
375	San Jacinto				
376	San Joaquin				
377	San Jose	X	X	X	X





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378	San Juan Bautista	X	X	X	X
379	San Juan Capistrano	X	X	X	X
380	San Leandro	X	X	X	X
381	San Luis Obispo	X	X	X	X
382	San Marcos	X	X	X	X
383	San Marino	X	X	X	X
384	San Mateo	X	X	X	X
385	San Pablo	X	X	X	X
386	San Rafael	X	X	X	X
387	San Ramon	X	X	X	X
388	Sand City	X	X	X	X
389	Sanger				
390	Santa Ana	X	X	X	X
391	Santa Barbara				
392	Santa Clara	X	X	X	X
393	Santa Clarita	X	X	X	X
394	Santa Cruz	X	X	X	X
395	Santa Fe Springs	X	X	X	X
396	Santa Maria	X	X	X	X
397	Santa Monica	X	X	X	X
398	Santa Paula				
399	Santa Rosa	X	X	X	X
400	Santee	X	X	X	X
401	Saratoga	X	X	X	X
402	Sausalito	X	X	X	X
403	Scotts Valley	X	X	X	X
404	Seal Beach				
405	Seaside	X	X	X	X
406	Sebastopol	X	X	X	X
407	Selma	X	X	X	X
408	Shafter	X	X	X	X
409	Shasta Lake	X	X	X	X





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	Service Location	InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEPM
410	Sierra Madre				
411	Signal Hill				
412	Simi Valley	X	X	X	X
413	Solana Beach	X	X	X	X
414	Soledad	X	X	X	X
415	Solvang				
416	Sonoma	X	X	X	X
417	Sonora	X	X	X	X
418	South El Monte	X	X	X	X
419	South Gate	X	X	X	X
420	South Lake Tahoe	X	X	X	X
421	South Pasadena	X	X	X	X
422	South San Francisco	X	X	X	X
423	St Helena				
424	Stanton	X	X	X	X
425	Stockton	X	X	X	X
426	Suisun City	X	X	X	X
427	Sunnyvale	X	X	X	X
428	Susanville				
429	Sutter Creek	X	X	X	X
430	Taft				
431	Tehachapi	X	X	X	X
432	Tehama	X	X	X	X
433	Temecula				
434	Temple City	X	X	X	X
435	Thousand Oaks	X	X	X	X
436	Tiburon	X	X	X	X
437	Torrance	X	X	X	X
438	Tracy	X	X	X	X
439	Trinidad	X	X	X	X
440	Truckee	X	X	X	X
441	Tulare	X	X	X	X





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	Service Location	InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEPM
442	Tulelake				
443	Turlock	X	X	X	X
444	Tustin	X	X	X	X
445	Twentynine Palms				
446	Ukiah	X	X	X	X
447	Union City	X	X	X	X
448	Upland	X	X	X	X
449	Vacaville	X	X	X	X
450	Vallejo	X	X	X	X
451	Vernon	X	X	X	X
452	Victorville				
453	Villa Park	X	X	X	X
454	Visalia	X	X	X	X
455	Vista	X	X	X	X
456	Walnut				
457	Walnut Creek	X	X	X	X
458	Wasco	X	X	X	X
459	Waterford	X	X	X	X
460	Watsonville	X	X	X	X
461	Weed	X	X	X	X
462	West Covina	X	X	X	X
463	West Hollywood	X	X	X	X
464	West Los Angeles	X	X	X	X
465	West Sacramento	X	X	X	X
466	Westlake Village	X	X	X	X
467	Westminster	X	X	X	X
468	Westmorland	X	X	X	X
469	Wheatland	X	X	X	X
470	Whittier	X	X	X	X
471	Williams				
472	Willits	X	X	X	X
473	Willows	X	X	X	X





	Service Location	InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEPM
474	Windsor	X	X	X	X
475	Winters	X	X	X	X
476	Woodlake	X	X	X	X
477	Woodland	X	X	X	X
478	Woodside	X	X	X	X
479	Yorba Linda	X	X	X	X
480	Yountville	X	X	X	X
481	Yreka	X	X	X	X
482	Yuba City	X	X	X	X
483	Yucaipa				
484	Yucca Valley				

Bidder may identify additional locations in California where their InFRa, InFRaM, InSBEP or InSBEPM Internet Services are available either through Contractor owned facilities or third-party agreements in Table 5.2.6.b. Bidders shall list the product identifier for each location where the Contractor provides InFRa, InFRaM, InSBEP or InSBEPM. By listing the service location, the Bidder commits to provide service in that specific location. Bidders may reference Table 5.2.6.a or Table 5.2.6.b in their Catalog A, Geographic Availability response. If Bidder is unable to identify all service areas within Tables 5.2.6.a and 5.2.6.b, Bidder shall provide additional information in the form of a coverage map that includes unincorporated areas.



Table 5.2.6.b Internet Service Additional Geographic Locations

.Service Location		InFRa	InFRaM	InSBET/ InSBEP	InSBET/ InSBEPM
1	None				
2					
3					
4					
5					
6					
7					
8					
9					
10					

## 5.2.7 Additional Unsolicited Internet Services

### 5.2.7.1 Unsolicited Internet Services Product Descriptions

Bidder shall describe in detail the additional high-speed Internet access service(s) that will be provided under this Contract.

All Bidder equipment, tasks and services required for provisioning of the services shall be identified in Table 5.2.7.a.

Table 5.2.7.a – Additional Unsolicited Internet Services

	Feature Name	Feature Description	Bidder's Product Identifier
1	Class of Service Flat Rate 1.5	Class of Service 1.5 Mbps Flat Rate	MI067
	Bidder's Product Description: Class of Service 1.5 Mbps Flat Rate		
2	Class of Service Flat Rate NxT1	Class of Service MLPPP NxT1 (3 to 12 Mbps)	MI068
	Bidder's Product Description: Class of Service MLPPP NxT1 (3 to 12 Mbps)		
3	Class of Service Flat Rate 10	Class of Service 10 Mbps Flat Rate	MI069





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	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service 10 Mbps Flat Rate		
4	Class of Service Flat Rate 15	Class of Service 15 Mbps Flat Rate	MI070
	Bidder's Product Description: Class of Service 15 Mbps Flat Rate		
5	Class of Service Flat Rate 20	Class of Service 20 Mbps Flat Rate	MI071
	Bidder's Product Description: Class of Service 20 Mbps Flat Rate		
6	Class of Service Flat Rate 25	Class of Service 25 Mbps Flat Rate	MI072
	Bidder's Product Description: Class of Service 25 Mbps Flat Rate		
7	Class of Service Flat Rate 30	Class of Service 30 Mbps Flat Rate	MI073
	Bidder's Product Description: Class of Service 30 Mbps Flat Rate		
8	Class of Service Flat Rate 35	Class of Service 35 Mbps Flat Rate	MI074
	Bidder's Product Description: Class of Service 35 Mbps Flat Rate		
9	Class of Service Flat Rate 40	Class of Service 40 Mbps Flat Rate	MI075
	Bidder's Product Description: Class of Service 40 Mbps Flat Rate		
10	Class of Service Flat Rate 45	Class of Service 45 Mbps Flat Rate	MI076
	Bidder's Product Description: Class of Service 45 Mbps Flat Rate		
11	Class of Service Flex 2	Class of Service Hi Cap Flex 2 Mbps	MI077
	Bidder's Product Description: Class of Service Hi Cap Flex 2 Mbps		
12	Class of Service Flex 3	Class of Service Hi Cap Flex 3 Mbps	MI078
	Bidder's Product Description: Class of Service Hi Cap Flex 3 Mbps		
13	Class of Service Flex 4	Class of Service Hi Cap Flex 4 Mbps	MI079
	Bidder's Product Description: Class of Service Hi Cap Flex 4 Mbps		
14	Class of Service Flex 5	Class of Service Hi Cap Flex 5 Mbps	MI080
	Bidder's Product Description: Class of Service Hi Cap Flex 5 Mbps		





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	Feature Name	Feature Description	Bidder's Product Identifier
15	Class of Service Flex 6	Class of Service Hi Cap Flex 6 Mbps	MI081
	Bidder's Product Description: Class of Service Hi Cap Flex 6 Mbps		
16	Class of Service Flex 7	Class of Service Hi Cap Flex 7 Mbps	MI082
	Bidder's Product Description: Class of Service Hi Cap Flex 7 Mbps		
17	Class of Service Flex 8	Class of Service Hi Cap Flex 8 Mbps	MI083
	Bidder's Product Description: Class of Service Hi Cap Flex 8 Mbps		
18	Class of Service Flex 9	Class of Service Hi Cap Flex 9 Mbps	MI084
	Bidder's Product Description: Class of Service Hi Cap Flex 9 Mbps		
19	Class of Service Flex 10	Class of Service Hi Cap Flex 10 Mbps	MI085
	Bidder's Product Description: Class of Service Hi Cap Flex 10 Mbps		
20	Class of Service Flex 15	Class of Service Hi Cap Flex 15 Mbps	MI086
	Bidder's Product Description: Class of Service Hi Cap Flex 15 Mbps		
21	Class of Service Flex 20	Class of Service Hi Cap Flex 20 Mbps	MI087
	Bidder's Product Description: Class of Service Hi Cap Flex 20 Mbps		
22	Class of Service Flex 25	Class of Service Hi Cap Flex 25 Mbps	MI088
	Bidder's Product Description: Class of Service Hi Cap Flex 25 Mbps		
23	Class of Service Flex 30	Class of Service Hi Cap Flex 30 Mbps	MI089
	Bidder's Product Description: Class of Service Hi Cap Flex 30 Mbps		
24	Class of Service Flex 40	Class of Service Hi Cap Flex 40 Mbps	MI090
	Bidder's Product Description: Class of Service Hi Cap Flex 40 Mbps		
25	Class of Service Flex 45	Class of Service Hi Cap Flex 45 Mbps	MI091
	Bidder's Product Description: Class of Service Hi Cap Flex 45 Mbps		
26	Class of Service Flex 45.1 – 155	Class of Service Hi Cap Flex 45.1 – 155 Mbps	MI092
	Bidder's Product Description: Class of Service Hi Cap Flex 45.1 – 155 Mbps		
27	Class of Service Flex 200 – 250	Class of Service Hi Cap Flex 200 – 250 Mbps	MI093
	Bidder's Product Description: Class of Service Hi Cap Flex 200 – 250 Mbps		





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	Feature Name	Feature Description	Bidder's Product Identifier
28	Class of Service Flex 300 – 350	Class of Service Hi Cap Flex 300 – 350 Mbps	MI094
	Bidder's Product Description: Class of Service Hi Cap Flex 300 – 350 Mbps		
29	Class of Service Flex 400 – 600	Class of Service Hi Cap Flex 400 – 600 Mbps	MI095
	Bidder's Product Description: Class of Service Hi Cap Flex 400 – 600 Mbps		
30	Class of Service Flex 700 – 1000 Mbps	Class of Service Hi Cap Flex 700 – 1000 Mbps	MI096
	Bidder's Product Description: Class of Service Hi Cap Flex 700 – 1000 Mbps		
31	Class of Service Flex 1500	Class of Service Hi Cap Flex 1500 Mbps	MI097
	Bidder's Product Description: Class of Service Hi Cap Flex 1500 Mbps		
32	Class of Service Flex 2000	Class of Service Hi Cap Flex 2000 Mbps	MI098
	Bidder's Product Description: Class of Service Hi Cap Flex 2000 Mbps		
33	Class of Service Flex 2500	Class of Service Hi Cap Flex 2500 Mbps	MI099
	Bidder's Product Description: Class of Service Hi Cap Flex 2500 Mbps		
34	Class of Service Flex 3000	Class of Service Hi Cap Flex 3000 Mbps	MI100
	Bidder's Product Description: Class of Service Hi Cap Flex 3000 Mbps		
35	Class of Service Flex 3500	Class of Service Hi Cap Flex 3500 Mbps	MI101
	Bidder's Product Description: Class of Service Hi Cap Flex 3500 Mbps		
36	Class of Service Flex 4000	Class of Service Hi Cap Flex 4000 Mbps	MI102
	Bidder's Product Description: Class of Service Hi Cap Flex 4000 Mbps		
37	Class of Service Flex 4500	Class of Service Hi Cap Flex 4500 Mbps	MI103
	Bidder's Product Description: Class of Service Hi Cap Flex 4500 Mbps		
38	Class of Service Flex 5000	Class of Service Hi Cap Flex 5000 Mbps	MI104





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	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service Hi Cap Flex 5000 Mbps		
39	Class of Service Flex 5500	Class of Service Hi Cap Flex 5500 Mbps	MI105
	Bidder's Product Description: Class of Service Hi Cap Flex 5500 Mbps		
40	Class of Service Flex 6000	Class of Service Hi Cap Flex 6000 Mbps	MI106
	Bidder's Product Description: Class of Service Hi Cap Flex 5500 Mbps		
41	Class of Service Flex 6500	Class of Service Hi Cap Flex 6500 Mbps	MI107
	Bidder's Product Description: Class of Service Hi Cap Flex 6500 Mbps		
42	Class of Service Flex 7000	Class of Service Hi Cap Flex 7000 Mbps	MI108
	Bidder's Product Description: Class of Service Hi Cap Flex 7000 Mbps		
43	Class of Service Flex 7500	Class of Service Hi Cap Flex 7500 Mbps	MI109
	Bidder's Product Description: Class of Service Hi Cap Flex 7500 Mbps		
44	Class of Service Flex 8000	Class of Service Hi Cap Flex 8000 Mbps	MI110
	Bidder's Product Description: Class of Service Hi Cap Flex 8000 Mbps		
45	Class of Service Flex 8500	Class of Service Hi Cap Flex 8500 Mbps	MI111
	Bidder's Product Description: Class of Service Hi Cap Flex 8500 Mbps		
46	Class of Service Flex 9000	Class of Service Hi Cap Flex 9000 Mbps	MI112
	Bidder's Product Description: Class of Service Hi Cap Flex 9000 Mbps		
47	Class of Service Flex 9500	Class of Service Hi Cap Flex 9500 Mbps	MI113
	Bidder's Product Description: Class of Service Hi Cap Flex 9500 Mbps		
48	Class of Service Flex 10000	Class of Service Hi Cap Flex 10000 Mbps	MI114
	Bidder's Product Description: Class of Service Hi Cap Flex 10000 Mbps		





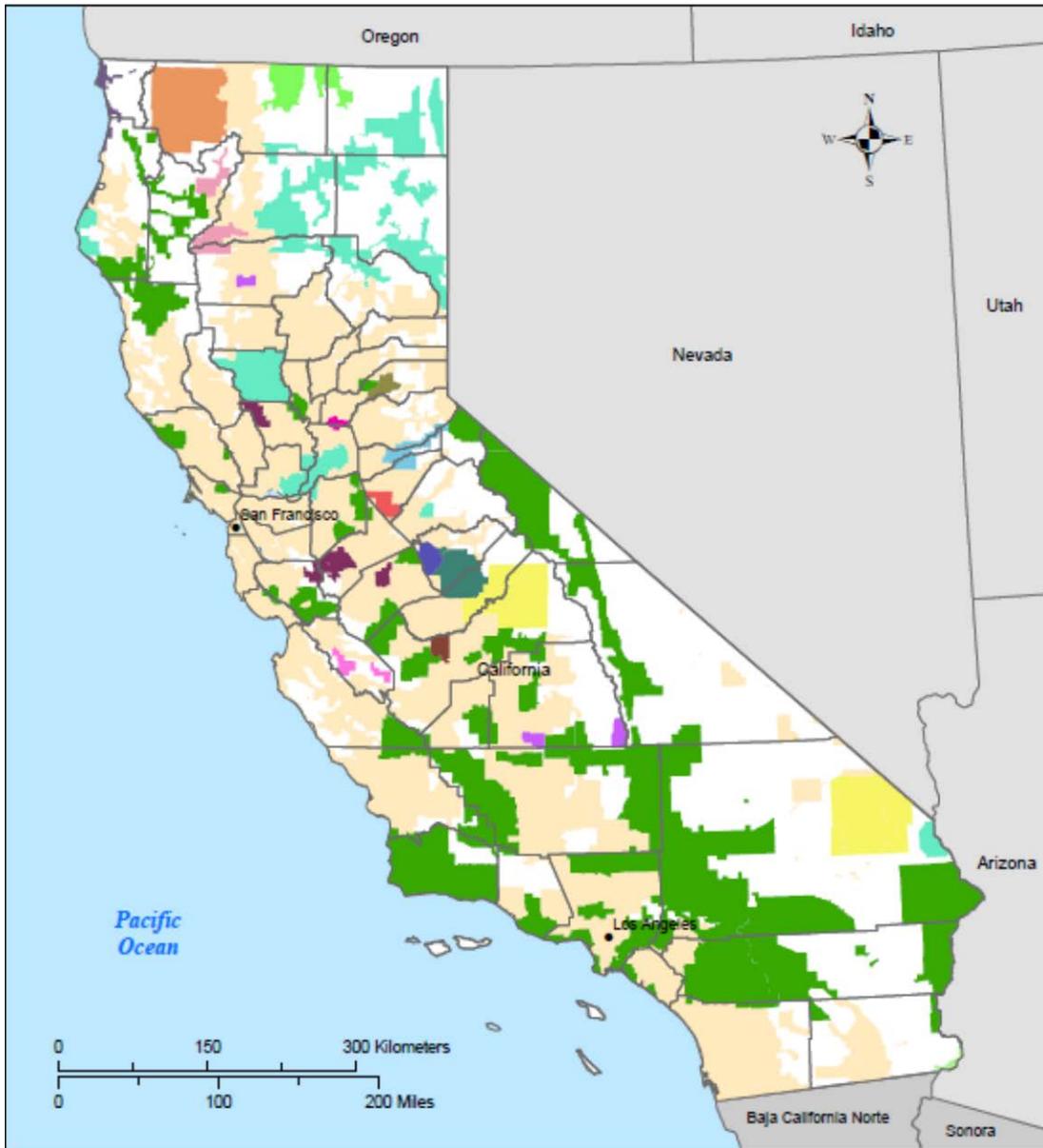
### **5.2.7.2 Unsolicited Internet Services Geographic Coverage**

Bidder shall provide a coverage map for each Unsolicited service offered in Table 5.2.7.a. A single map may be provided for services that fall within the same geographic footprint.



Bidder understands the requirements in Section 5.2.7.2 and shall meet or exceed them? Yes  
 No

Description:



Unsolicited items 1-48, Table 5.2.7.a are available in all areas within the state of California outline.



## 5.3 Network Disaster/Operational Recovery

### 5.3.1 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  No*

### 5.3.2 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  No*

## 5.4 Other Services

### 5.4.1 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.

### 5.4.2 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 5.5.8.8 (Provisioning SLAs) associated with that service.

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

1. The wire/cable pathway is blocked and cannot be cleared in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;
2. The wire/cable pathway is in an asbestos environment or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by CALNET 3 CMO.

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

The Contractor shall install wiring according to industry standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, and 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  No*

The Contractor shall offer the wiring services for extended demarcation detailed in Table 5.4.2.a.

Table 5.4.2.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		EDCR
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s or equivalent smart jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during regular hours.					
2	Extended Demarcation – Copper four-Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		EDCO
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s or equivalent smart jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during overtime hours.					
3	Extended Demarcation – Copper four-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 of four-pair cable and an RJ48s or equivalent jack.	Y		EDCH
Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48s or equivalent smart jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during Sunday and State of California holiday hours.					





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	Feature Name	Feature Description	Bidder Meets or Exceeds? Y 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		EDC25R
Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5 25-pair CMP UTP cable with new 24-port Category 5 patch panels. Category 5e ten, three-meter jumpers, one 24-port patch panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during regular hours.					
5	Extended Demarcation – Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Y		EDC25O
Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5 25-pair CMP UTP cable with new 24-port Category 5 patch panels. Category 5e ten, three-meter jumpers, one 24-port patch panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during overtime hours.					
6	Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Y		EDC25H





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





	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
9	Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDOH
Bidder's Product Description: The pricing of this item includes up to 1,000 feet of 62.5/125- or 50/125-micron, two-strand CMP fiber drop cable with adapters, connectors, and two SC-SC duplex patch cords for each single circuit extension. Associated troubleshooting, testing, and labeling is included. To provide this service, AT&T assumes customer has adequate pathways. Enclosures are not included. The labor rate is for work performed during Sunday and State of California holiday hours.					

The Contractor may offer additional Unsolicited extended demarcation wiring services in Table 5.4.2.b.

Table 5.4.2.b Unsolicited Extended Demarcation Wiring Services and Features

	Feature Name	Feature Description	Bidder's Product Identifier

### 5.4.3 Services Related Hourly Support

The Contractor shall provide labor for the diagnosis and/or repair of services offered in this Category and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractor's responsibilities. Work performed under this Section 5.4.3 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 5.4.3, 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  No \_\_\_\_\_*

The Contractor shall offer emergency restoration services as detailed in Table 5.4.3.

Table 5.4.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVV
Bidder's Product Description: Labor only: To assist in fault isolation, the AT&T field service repair technician can test circuits at the MPOE or to the network interface (NI) of an extended demarcation point. If trouble is found to be in the AT&T-provided circuit, service, or equipment under maintenance to AT&T, no service charge will apply. Dispatch In/Out (CPE, IEC, NTF). Bill from time of dispatch status to time tech completes job. The labor rate is for work performed during regular hours.					
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVV-O
Bidder's Product Description: Labor only: To assist in fault isolation, the AT&T Field Service Repair Technician can test circuits at the MPOE or to the network interface (NI) of an extended demarc. If trouble is found to be in the AT&T provided circuit, service or equipment under maintenance to AT&T, no service charge will apply. Dispatch In/Out (CPE,IEC,NTF). Bill from time of dispatch status to time tech completes job. The labor rate is for work performed during overtime hours.					
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVV-H





	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: Labor only: To assist in fault isolation, the AT&T Field Service Repair Technician can test circuits at the MPOE or to the network interface (NI) of an extended demarc. If trouble is found to be in the AT&T provided circuit, service or equipment under maintenance to AT&T, no service charge will apply. Dispatch In/Out (CPE,IEC,NTF). Bill from time of dispatch status to time tech completes job. The labor rate is for work performed during Sunday and State of California holiday hours.			

## 5.5 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.

### 5.5.1 Service Level Agreement Format

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

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

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





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

## 5.5.2 Technical Requirements Versus SLA Objectives

Sections 5.2 (Managed Internet Services), 5.2.7 (Network Disaster/Operational Recovery) and 5.4 (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 (Section 5.5) are minimum parameters which the Contractor shall be held accountable for all rights and remedies throughout Contract Term.

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

## 5.5.3 Two Methods of Outage Reporting: Customer or Contractor

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

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

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

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

## 5.5.4 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  No*



## 5.5.5 Contractor SLA Management Plan

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

1. Contractor SLA Manager and supporting staff responsibilities;
2. Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;
3. Creation and delivery of SLA Reports (IFB STPD 12-001-B Business Requirements Section B.9.5). The Contractor shall include a sample report in accordance with IFB-B Business Requirements Section B.9.5 (SLA Reports) for the following: SLA Service Performance Report (Section IFB STPD 12-001-B Business Requirements Section B.9.5.1), SLA Provisioning Report (Section IFB STPD 12-001-B Business Requirements Section B.9.5.2), and SLA Catastrophic Outage Reports (Section IFB STPD 12-001-B Business Requirements Section B.9.5.3). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET 3 CMO via the Private Oversight Website (IFB STPD 12-001-B Business Requirements Section B.9.2);
4. SLA invoicing credit and refund process;
5. 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,
6. Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for Customer and CALNET 3 CMO.

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

## 5.5.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET 3 Technical SLAs (Section 5.5.8):

1. With the exception of the Provisioning SLA, the total SLA rights and remedies for any given month shall not exceed the sum of 100 percent of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;



2. If a circuit or service fails to meet one (1) or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET 3 SLAs and remedies for services provided by Subcontractors and/or Affiliates;
4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA;
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges;
6. The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives;
7. The Contractor shall proactively credit all rights and remedies to the Customer within 60 calendar days of the trouble resolution date on the trouble ticket or within 60 calendar days of the Due Date on the Service Request for the Provisioning SLA;
8. To the extent that Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), the State will be entitled to the same rights and/or remedies therein. The Contractor shall present the SLAs to CALNET 3 CMO for possible inclusion via amendments;
9. The Contractor shall apply CALNET 3 SLAs and remedies to services provided in geographic areas which the Bidder has committed to provide service. ;
10. The election by CALNET 3 CMO of any SLA remedy covered by this Contract shall not exclude or limit CALNET 3 CMO's or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;
13. The Customer Escalation Process (IFB STPD 12-001-B Business Requirements Section B.3.4.2) and/or the CALNET 3 CMO Escalation Process (IFB STPD 12-001-B Business Requirements Section B.3.4.1) shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
14. Trouble reporting and restoration shall be provided 24x365 for CALNET 3 services;
15. SLAs apply 24x365 unless SLA specifies an exception;



16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with IFB STPD 12-001-B Business Requirements Section B.5.1 (Billing and Invoicing Requirements, #14);
17. The Contractor shall provide a CALNET 3 SLA Manager responsible for CALNET 3 SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET 3 CMO SLA oversight, report issues, and problem resolution concerns. The CALNET 3 SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;
18. The Contractor shall provide Customer and CALNET 3 CMO support for SLA inquiries and issue resolution; and,
19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET 3 Customer.

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

### 5.5.7 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 5.5.7 and include start and stop time stamps in the Contractor’s Trouble Ticket Reporting Tool (IFB STPD 12-001-B Business Requirements Section B.9.4) for each application of a SCC.

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

Stop Clock Conditions are limited to the conditions listed in Table 5.5.7.

Table 5.5.7 – 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.





**IFB STPD 12-001-B, C3-B-12-10-TS-01**  
**Vol. 2, SOW Technical Requirements Response, Category 5 –**  
**Managed Internet Services**  
**Amendment #1, Rev. June 4, 2015**

#	Stop Clock Condition (SCC)	SCC Definition
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.
7	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following: <ul style="list-style-type: none"> <li>a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative;</li> <li>b. Site contact refuses access to technician who displays proper identification;</li> <li>c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; or,</li> <li>d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.</li> </ul> If it is determined later that the cause of the problem was not at the site in question, then the Access SCC shall not apply.
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.





**IFB STPD 12-001-B, C3-B-12-10-TS-01**  
**Vol. 2, SOW Technical Requirements Response, Category 5 –**  
**Managed Internet Services**  
**Amendment #1, Rev. June 4, 2015**

#	Stop Clock Condition (SCC)	SCC Definition
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close-out of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET 3 service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
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  No*



## 5.5.8 Technical Service Level Agreements

The Contractor shall provide and manage the following Technical SLAs.

### 5.5.8.1 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:**

Managed Internet Service

**Objective(s):**

The objective shall be based on the network side interface type:

SLA Objective Table 1 – Required				
Network Side Interface	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
T1/FT1	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
T3/FT3	≥ 99.7%	≥ 99.8%	≥ 99.9%	S
OCX/OCXc	≥ 99.7%	≥ 99.8%	≥ 99.9%	S
Ethernet 1 Mbps up to 1 GbE (Gigabit Ethernet)	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
Ethernet 10 GbE	≥ 99.2%	≥ 99.5%	≥ 99.8%	S



**Objective(s), continued:**

With the exception of XDSL, Bidder shall identify any additional Contractor identified network side interfaces not listed in the Table 1 above for InFRa and InFRaM services. Bidder shall provide an objective commitment percentage for each additional network side interface which must be above 99.2%:

SLA Objective Table 2 – Additional		
	Additional Network Side Interface	Bidder's Objective Commitment (%)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Rights and Remedies</b>	Per Occurrence: N/A
	<p><b>Monthly Aggregated Measurements:</b></p> <p>First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.</p> <p>The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC and two (2) Business Days of the ADUC, when usage applies.</p> <p>Each additional consecutive month the service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.</p>

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





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

SLA Name: Catastrophic Outage 1 (CAT 1)					
Definition: The total loss of service at a single site resulting in the loss of service to five (5) or more circuits or any single service at 500Mbps or greater.					
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):					
Managed Internet Service					
Objective (s): The objective restoral time shall be:					
		Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
	Managed Internet Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) days of ADUC 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       





**5.5.8.3 Catastrophic Outage 2 (CAT 2) (M-S)**

SLA Name: Catastrophic Outage 2 (CAT 2)					
<p><b>Definition:</b> A total failure of a service type in a central office (or equivalent facility), other than access, that results in a CALNET 3 service failure. Or, a backbone failure or failure of any part of the equipment associated with the backbone that causes a CALNET 3 service failure.</p>					
<p><b>Measurement Process:</b> The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by 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.</p>					
Service(s):					
Managed Internet Service					
Objective (s):					
The objective restoral time shall be:					
		Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Managed Internet Service	≤ 1 hour	≤ 30 minutes	≤ 15 minutes		S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) days ADUC for each End-User service not meeting the committed objective for each CAT 2 fault				
	Monthly Aggregated Measurements: N/A				

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





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

SLA Name: Catastrophic Outage 3 (CAT 3)					
Definition: The total loss of Managed Internet Service 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):					
Managed Internet Service					
Objectives:					
The objective restoral time shall be:					
		Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
Managed Internet Service	≤ 30 minutes	N/A	≤ 15 minutes		P
Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) days ADUC 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 \_\_\_\_\_*





**5.5.8.5 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):					
Managed Internet Service					
Objective (s): The Unavailable Time objective shall not exceed:					
		Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
	Managed Internet Service	16 hours	12 hours	8 hours	S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) days ADUC for each service (Circuit ID) out of service for a period greater than the committed objective level. Upon request from the Customer or the CALNET 3 CMO, the Contractor shall provide a briefing on the excessive outage restoration.				
	Monthly Aggregated Measurements: N/A				

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





**5.5.8.6 Managed Service Proactive Notification (M-S)**

SLA Name: Managed Service Proactive Notification	
<p><b>Definition:</b> The proactive outage notification provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed router service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET 3 CMO.</p> <p>An Outage is defined as an unscheduled period in which the managed router service is interrupted and unavailable for use by Customer for 60 continuous seconds or more than 60 cumulative seconds within a 15-minute period measured by the Contractor.</p>	
<p><b>Measurement Process:</b> The Outage Duration start shall be determined by the first Contractor network alarm resulting from the outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. The Contractor has fifteen (15) minutes (Notification Period) to notify the Customer from the start point of the first network alarm. The Contractor is in compliance with the proactive outage notification SLA if the Customer opened the trouble ticket prior to the network alarm or Customer is notified by the Contractor within the Notification Period.</p>	
Service(s):	
Managed Internet Services with Managed Router	
Objective (s): 15 minutes	
Rights and Remedies	<p><b>Per Occurrence:</b> Customer will receive a credit equal to ten percent of the TMRC for Managed Internet Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period</p>
	Monthly Aggregated Measurements: N/A

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





**5.5.8.7 Notification**

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

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





### 5.5.8.8 Provisioning (M-S)

SLA Name: Provisioning		
<p><b>Definition:</b> Provisioning shall include new services, moves, adds and changes completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with IFB STPD 12-001 Business Requirements Section B.2.5.4 #7 (Provisioning and Implementation). The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Request(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Schedule per IFB STPD 12-001-B Business Requirements Section B.6 (Contracted Service Project Work).</p> <p>Provisioning SLAs have two (2) objectives:</p> <p>Objective 1: Individual Service Request; and</p> <p>Objective 2: Successful Install Monthly Percentage by Service Type.</p> <p>Note: Provisioning timelines include extended demarcation wiring, when appropriate.</p>		
<p><b>Measurement Process:</b></p> <p>Objective 1: Individual Service Request: Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor. This objective requires the Contractor to meet the due date for each individual Service Request.</p> <p>Objective 2: Successful Install Monthly Percentage per service Type: The Contractor shall sum all individual Service Requests per service, as listed below, meeting the objective in the measurement period (per month) and divide by the sum of all individual Service Requests due per service in the measurement period and multiply by 100 to equal the percentage of Service Requests installed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.</p>		
Service (Features must be installed in conjunction with the service except when listed below)	Committed Interval Calendar Days	Coordinated/Managed Project
InFRA	30	Coordinated/Managed Project
InFRaM	45	Coordinated/Managed Project
InSBET	30	Coordinated/Managed Project
InSBEP	30	Coordinated/Managed Project
InSBEPM	45	Coordinated/Managed Project





<p>Objective (s):</p> <p>Objective 1: Individual Service Request: Service installed on or before the Committed Interval or negotiated due date.</p> <p>Objective 2: Successful Install Monthly Percentage per Service:</p>																															
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #e0f2f1;"> <th style="width: 20%;"></th> <th style="width: 15%;">Basic (B)</th> <th style="width: 15%;">Standard (S)</th> <th style="width: 15%;">Premier (P)</th> <th style="width: 35%;">Bidder's Objective Commitment (S or P)</th> </tr> </thead> <tbody> <tr> <td>InFRA</td> <td>N/A</td> <td>≥ 90%</td> <td>≥ 95%</td> <td align="center">S</td> </tr> <tr> <td>InFRaM</td> <td>N/A</td> <td>≥ 90%</td> <td>≥ 95%</td> <td align="center">S</td> </tr> <tr> <td>InSBET</td> <td>N/A</td> <td>≥ 90%</td> <td>≥ 95%</td> <td align="center">S</td> </tr> <tr> <td>InSBEP</td> <td>N/A</td> <td>≥ 90%</td> <td>≥ 95%</td> <td align="center">S</td> </tr> <tr> <td>InSBEPM</td> <td>N/A</td> <td>≥ 90%</td> <td>≥ 95%</td> <td align="center">S</td> </tr> </tbody> </table>			Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (S or P)	InFRA	N/A	≥ 90%	≥ 95%	S	InFRaM	N/A	≥ 90%	≥ 95%	S	InSBET	N/A	≥ 90%	≥ 95%	S	InSBEP	N/A	≥ 90%	≥ 95%	S	InSBEPM	N/A	≥ 90%	≥ 95%	S
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<b>Rights and Remedies</b>	<p><b>Per Occurrence:</b></p> <p>Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.</p> <hr/> <p><b>Monthly Aggregated Measurements:</b></p> <p>Objective 2: 100 percent of the installation fee credited to Customer for all Service Requests (per service type) that did not complete on time during the month if the Successful Install Monthly Percentage is below the committed objective.</p>																														

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





**5.5.8.9 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):					
Managed Internet Service					
Objective (s): The Unavailable Time objective shall not exceed:					
	Service	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or S)
	Managed Internet Service	6 hours	4 hours	N/A	S
Rights and Remedies	Per Occurrence: 25 percent of the TMRC and two (2) days ADUC 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*





### 5.5.8.10 Unsolicited Service Enhancement SLAs

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

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

### 5.5.8.12 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 5.5 for each unsolicited offering determined by the CALNET 3 CMO not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

### 5.5.8.13 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in this Section 5.5.8.12.

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