#### INVITATION FOR BID

# IFB C4DNCS19 Data Networks and Communications Services

# CATEGORY 22 – CLOUD-HOSTED VOIP SERVICES

CenturyLink Communications, LLC dba CenturyLink dba LUMEN

Statement of Work

TECHNICAL REQUIREMENTS

September 14, 2020

**BAFO** 

Issued by:

STATE OF CALIFORNIA

California Department of Technology Statewide Procurement

PO Box 1810

Rancho Cordova, CA 95741

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

# AMENDMENT LOG

Amendment #	Date	Amendment Description
3	04/30/2021	Added Headers throughout document
		Table Updated Section 22.4.8.2 - Rights and
		Remedies, Per Occurrence

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#### TECHNICAL REQUIREMENTS

# CATEGORY 22 - Cloud-Hosted VoIP Services

#### 22.1 OVERVIEW

This Category 22 IFB C4DNCS19 (IFB) provides the State's solicitation for best value solutions for Cloud-Hosted VoIP Services. This IFB also describes the technical requirements necessary to support the CALNET program requirements.

This IFB will be awarded to Bidders that meet the award criteria as described in IFB C4DNC\$19 Part 1, Bid Evaluation. The CALNET Data Networks and Communications (DNC\$) Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET Contractor Management Organization (CALNET CMO).

### 22.1.1 Bidder Response Requirements

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

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

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

Or,

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

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

#### **Bidder's Description:**

Or,

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

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

#### 22.1.2 Designation of Requirements

All Technical Requirements specified in this IFB are Mandatory and must be responded to as identified in IFB C4DNC\$19 Part 1, SOW Mandatory Technical Requirements by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)".

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

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

#### 22.1.3 Pacific Time Zone

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

# Bidder understands the Requirement and shall meet or exceed it? Yes 22.2 CLOUD-HOSTED VOIP SERVICES

# 22.2.1 Cloud-Hosted VoIP Services Requirements

#### 22.2.1.1 Hosted Services

 The Contractor's Cloud-Hosted VoIP Services shall be hosted by the Contractor with all components residing outside of the Customer's premises.

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

 The Contractor shall not use State property for the deployment, collocation, or supplementation of the Contractor's network signaling and management, call control and setup, or access to other Public Switched Telephone Network (PSTN) or VoIP network providers with the

exception of equipment required to provide Site Survivability Network Failure as described in Section 22.2.4.1.

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

#### 22.2.1.2 Logical Design

The Contractor's logical design for the Cloud-Hosted VoIP Services shall take into consideration telephony services that can be accessed both internally among directly-connected Customers and externally by remote End-Users.

#### 22.2.1.2.1 Directly-Connected Customers

The Contractor shall only allow End-Users working within their Customer office location to access Cloud-Hosted VoIP Services over a CALNET Contractor's private network connection, as depicted in Figure 22.2.1.2.

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

22.2.1.2.2 Remote End-Users

The Cloud-Hosted VoIP Services shall allow Remote End-Users working outside of their Customer office location to access Cloud-Hosted VoIP Services over a public internet connection, as depicted in Figure 22.2.1.2.

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

22.2.1.2.3 LAN and WAN Access

All LAN and WAN functionality, components, cabling, equipment, and remediation shall be the responsibility of the Customer and shall be acquired elsewhere, as depicted in Figure 22.2.1.2.

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

Customer Remote Provided by Cloud-Hosted **VoIP Services Contractor** Office Location End-User Provided by Customer or third party Contractor's Cloud-Hosted VolP Services CALNET Contractor Internet Private Network

Figure 22.2.1.2 Cloud-Hosted VoIP Services Logical Design

## 22.2.1.3 Cloud-Hosted VoIP Services Connectivity Diagrams

The Bidder shall provide electronic connectivity diagrams with their proposal. The electronic drawings shall be in .dwg, .dfx, .vsd, .pdf, or any mutually agreed format. Connectivity diagrams shall include logical representations of all critical elements, including where services are hosted and how access to the PSTN is provided.

The Contractor shall provide revisions or hard copies upon CALNET Program request.

Please see attached Diagram 22.2.1.3.jpg

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

#### 22.2.1.4 Cloud-Hosted VoIP Services Implementation

#### 22.2.1.4.1 Cloud-Hosted VoIP Services Site Survey

The Contractor shall provide a Site Survey Analysis to the Customer included in the nonrecurring Cloud-Hosted VoIP Service Package per seat price. The Contractor's Site Survey Analysis shall identify the steps required to facilitate a successful Cloud-Hosted VoIP Services implementation and identify the steps required to correct any deficiencies.

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

The Contractor's Site Survey shall include, at a minimum, the following details:

- 1. Customer site bandwidth requirements;
- 2. Customer LAN and WAN routing requirements;
- 3. Customer LAN and WAN security requirements;
- 4. Customer site wiring requirements; and,
- 5. Quality of Service (QoS) requirements, including configuration options, traffic prioritization, and queuing methods.

The Contractor shall describe anything else included in their Site Survey.

# Bidder understands the Requirement and shall meet or exceed it? Yes Bidder's Description:

CenturyLink will provide a site survey portfolio that will include bandwidth and performance requirements to support a Hosted VoIP environment both in transition and at target state, full deployment. CenturyLink will provide LAN and WAN routing and forwarding assessments including recommendations to be evaluated by the State relative to high-availability and failover continuity, including minimum and optimized prioritization and queuing approaches. CenturyLink will in collaboration with the State conduct security assessments relative to LAN and WAN assets participating in call signaling and forwarding. This assessment will also include wiring evaluation and recommendations for transition and on-boarding.

#### 22.2.1.4.2 Implementation Schedule

The Contractor shall provide the Customer with an Implementation Schedule for completing the installation of the Cloud-Hosted VoIP

Services. The Implementation Schedule shall include milestones for all facets of the engineering, implementation, and testing activities required to implement the Cloud-Hosted VoIP Services.

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

22.2.1.4.3 Testing and Acceptance

The Contractor shall execute acceptance testing in accordance with the Testing and Acceptance Plan.

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

22.2.1.4.3.1 Testing and Acceptance Plan

The Contractor shall create a Testing and Acceptance Plan, approved by the Customer, prior to performing any testing activities. The Testing and Acceptance Plan shall outline the testing activities to be performed, describe roles and responsibilities, and define acceptance criteria.

The Contractor shall provide the Customer with an updated Testing and Acceptance Plan upon completion of each testing activity.

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

### 22.2.1.5 Cloud-Hosted VoIP Services Security

22.2.1.5.1 Network Security

The Contractor shall implement security measures that detect and prevent unauthorized access to the network, Telephony Denial of Service (TDoS) Denial of Service (DoS), and Man-in-the-Middle (MITM) attacks.

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

22.2.1.5.2 Physical Security

The Contractor shall comply with all 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

22.2.1.5.3 Data Breach Reporting

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

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

### 22.2.1.6 Emergency Services

The Contractor shall comply with Federal Communications Commission (FCC) emergency service requirements, including Enhanced 911 (E911), Kari's Law, and the Ray Baum's Act, to identify the location of an originating station and route the call to the appropriate Public Safety Answering Point (PSAP).

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

22.2.1.6.1 Enhanced 911 Database Updates

The Contractor shall be responsible for updating the E911 database when notified End-User equipment is moving to a new location with a different street address and Local Area Network.

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

22.2.1.6.1.1 Dynamic Location Mapping

The Contractor shall provide Customers with a solution to map logical network attributes (e.g. port, subnet, VLAN, Wireless AP, etc.) to dispatchable locations. Dispatchable locations shall include the street address and additional information such as room number, floor number, or other information necessary to identify the location of the calling party.

The Bidder shall describe their Dynamic Location Mapping solution in the Bidder's Description. The Bidder's Description shall be no more than three pages and must include a technical description of the following items.

- 1. How the Bidder's solution will allow a Customer to configure dispatchable locations. This description should include the level of detail that can be configured in terms of dispatchable locations and network attributes.
- 2. How the Bidder's solution will provide a dispatchable location to the PSAP when an End-User dials 911.

# Bidder understands the requirements and shall meet or exceed them? Yes Bidder's Description:

Item 1)

Dispatchable Location Configuration and MACD: CenturyLink's HCS service leveraging the Cisco Emergency Responder Platform (CER) supports seamless configuration of e911 user dispatchable location information inclusive of customer defined logical network attributes, i.e. IP Subnet, VLAN, Switch Port. Initial configuration, including network designated network attributes at install is performed using the customer HCS tenant portal.

CenturyLink will provide customer administrator(s) with comprehensive training on Portal input. This baseline location information provides ease of administration for moves, adds, and changes and is one of the key advantages the CenturyLink HCS platform communications technology providing for dynamic moves, adds, and changes that automatically update 911 information without user intervention.

Cisco Emergency Responder (CER) provides the following primary functionality:

- 1. Dynamic association of a phone to an Emergency Response Location (ERL), based on the detected physical location of the phone.
- 2. Dynamic association of the Emergency Location Identification Number (ELIN) to the calling phone, for callback purposes. In contrast to the general emergency services scenarios outlined in preceding sections, enabling the callback to ring the exact phone that initiated the 911 call.
- 3. On-site notification to designated parties (by pager, web page, email, or phone call) to inform them that there is an emergency call in progress. Email, pager, and web page notifications include the calling party name and number, the ERL, and the date and time details associated with the call. Phone notification provides the information about the calling number from which the emergency call was placed.

Cisco Emergency Responder uses multiple methods to determine the physical location of a device. Because more specific location discovery results in a shorter time to locate the emergency and administer emergency services, Emergency Responder uses the following methods among others to identify an emergency caller's location:

- 1. Switch port discovery
- 2. IP subnet
- 3. Static DN assignment
- 4. Default route

The most commonly used formats are Switch Port discover and IP Subnet.

Switch Port Discovery – The primary method for location identification in Cisco Emergency Responder is the detection of an endpoint via Layer 2 discovery at the switch port level. Discovering an endpoint though Layer 2 Cisco Discovery Protocol (CDP) discovery enables Emergency Responder to determine the exact physical location of the calling device based on the physical termination of the network cable to a network jack in a cubicle or office. Although the discovery mechanism of the connected device is reliable, the accuracy of the physical location relies on two main assumptions:

- 1. The wired infrastructure of the enterprise is well established, and any wiring closet changes trigger notification to the Emergency Responder administrator indicating what changed.
- 2. The infrastructure is available for Cisco Emergency Responder to browse; that is, Cisco Emergency Responder can establish Simple Network Management Protocol (SNMP) sessions to the underlying network infrastructure and can scan the network ports for the discovery of connected phones.

Once Cisco Emergency Responder discovers the originating port for the call, it associates the call with the pre-established ERL for the location of that port. This process also yields an association with a pre-established ELIN for the location and the selection of the appropriate egress point to the E911 infrastructure, based on the originating ERL.

IP Subnet – Another typical CER configuration is based on IP subnet designation for delineation of the specific dispatchable location e911 information. Cisco Emergency Responder also provides the capability to configure ERLs for IP subnets and to assign IP endpoint location by IP address. This capability may be used to locate wireless IP phones, IP softphones, collaboration endpoints that do not support Cisco Discovery Protocol (CDP), and third-party SIP endpoints registered to Cisco Unified CM, which Cisco Emergency Responder cannot locate by connected switch port. It may also be used instead of, or in addition to, connected switch port locations for wired Cisco Collaboration endpoints. If both connected switch port and IP subnet locations are available for a Cisco

Collaboration endpoint, Cisco Emergency Responder will prefer the connected switch port location because it is usually more specific than the IP subnet location. Using both connected switch port and IP subnet locations is a best practice because it provides assurance that an appropriate ERL will be assigned, even in case of any delay or error in detecting the connected switch port.

E911 Call Sequence – As a call to 911 is made, the application server first looks at the Calling Line ID (CLID) - the FROM Header in the SIP Invite - to determine if it is in the list of Hosted VoIP TNs. If it is not, then the TN is considered an "Alien" TN and the call is routed to VPC ECRC (Emergency Call Response Center), referred to alternatively as the "National PSAP". It should be noted that for Alien TNs the HCS network does not know this TN, it is unaware of which location it is calling from, and as a result the call will not have address information associated to it. Because of that, the PSAP operator will need to obtain location information directly from the person who placed the call.

- If the calling TN is found to be a Hosted VoIP TN, then the BroadSoft application server will determine the TN E911 dispatchable location information and the BroadSoft platform will send the user's calling the VoIP Positioning Center (VPC) carrier to determine which PSAP to route the call to for the physical address of that user's TN.
- 2. Finally, if the calling TN is found part of a Group TN, then the Group that the user's TN is a member of is determined, and the Group TN is sent to the VPC on behalf of the calling number. The VPC will then determine the appropriate PSAP to route the call to based on the address associated to the Group TN. Depicted below is the e911 caller Flow-sequence.
- Step 1 The HCS End user dials 911
- Step 2 BroadSoft receives call and flags dialed call as 911
- Step 3 Calling TN is searched for in database
- Step 3a If TN not found (i.e., Alien TN), TN is sent to VPC ECRC
- Step 3b If TN is found and not E911 Add-On, Group TN for PPU is sent to the VPC
- Step 3c If TN is found and is E911 Add-On, calling TN is sent to the VPC
- Step 4 VPC queries ALI database to find address of the TN

Step 5 – VPC determines which PSAP serves that PPU

Step 6 - VPC sends call to correct PSAP based on address of calling TN

Step 7 – PSAP views calling TN and address (20-60 characters depending on PSAP)

Item 2) CenturyLink's HCS includes the ability to designate at the Group or to End User level secondary dispatchable information such as suite, floor, room or cube This is included in the initial configuration based on customer designated location logical and physical attributes mapping to users and is retained during End User location moves.

For example, if the HCS customer elected to use IP Schema for dispatchable location designation and an End User is located on Floor 2 with an IP Subnet designation of 1.1.1.1/24 and the user moved their phone to Floor 3 that has an IP Subnet designation of 2.2.2.2/24, when the user reregisters their phone on Floor 3, the source IP of the new registration will be in the 2.2.2.2/24 range which will show in the HCS system and all flow down sequences as Floor 3.

#### 22.2.1.6.1.2 Remote End-User Location Mapping

All mobility solutions provided by the Contractor shall automatically locate remote End-Users based on the most accurate location data available. Location data sources may include, but are not limited to, GPS, Wi-Fi, Bluetooth, and mobile networks.

In situations where location data is not available, the Contractor's solution shall require the End-User to immediately designate their physical location upon connecting to an unknown network.

The Bidder shall describe their Remote End-User Location Mapping solution in the Bidder's Description. The Bidder's Description shall be no more than three pages and must include a technical description of the following items.

- 1. How the Bidder's solution will determine the most accurate location data available. The Bidder must include device-specific detail if determining location varies across different types of devices.
- 2. How the Bidder's solution will require the End-User to immediately designate their physical location. The Bidder must demonstrate how End-Users are able to designate their physical location within the

softphone application. Requiring an End-User to call in or use a separate portal to designate their location is not an acceptable solution.

3. Any other means used to pass the End-User's dispatchable location to the PSAP.

# Bidder understands the requirements and shall meet or exceed them? Yes Bidder's Description:

CenturyLink's HCS provides softphone support using the CenturyLink Business Communicator (BC) – the Voice/Video a softphone client that can be installed on Windows, Mac, iOS, and Android. The soft client supports voice and video services as well as service integration to manage remote services such as Simultaneous Ring and Anywhere. The client software is used for making and receiving calls, while still having access to all the features of Hosted VoIP including e-911 dispatchable location information updating including scheduled update sequence. The warning message is displayed every time a user logs into this device acting as a reminder to confirm they have set the proper 9-1-1 location.

CenturyLink will provide a 911 location manager extension to our HCS service. This client extension requires users with softphone clients to input their location information where user location information is not dynamically available. End-Users who connect to an unknown network are provided with a "warning" or a "dynamic pop up window to input their location information. The location manager can be configured to detect that user is not in a configured location and prompts user using a dynamic pop up window to input their location information. In addition, the agency administrator can disable the SKIP button on pop up which will prevent the user from opting out of location information input. This administrative control effectively enables administrator to disable user softphone if user does not provide a valid address. The user will no longer be able to make any calls using softphone until a location is provided. A system tray notification is triggered to inform user.

User sequence - When a user moves to a new location and starts up their softphone, a customizable disclaimer appears and informs the user that they need to update their location. Once the user has entered their address in the location manager interface, if they need to place a 911 call, their self-provisioned location will be used to determine the appropriate PSAP for call routing and will be provided to the PSAP call taker. Organizations can elect to

make it mandatory for their off-site users to provision their locations in Location Manager before they can use their softphone.

In addition to providing location information input capability, the CenturyLink 911 location manager extension provides users with the ability to:

- Choose from a list of locations previously provided
- View a list of locations you have visited
- Remove locations you no longer plan to visit

The softphone client when used on a mobile phone will complete a 911 call.

### 22.2.1.7 Softphone Support

The Contractor shall support softphone applications for personal computers and mobile devices that allow End-Users to place and receive calls without a dedicated telephone.

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

## 22.2.1.8 Software Updates

The Contractor shall provide all software and ongoing software patches or upgrades required to deliver the Cloud-Hosted VoIP Services.

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

# 22.2.1.9 Interoperability with Other CALNET Technologies

If the Contractor is awarded a CALNET Contract for Converged VoIP services, SIP Trunking services, or Standalone VoIP services, this Cloud-Hosted VoIP Services shall be interoperable with the other services and the State shall not incur any charges for calls between these services.

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

# 22.2.1.10 On-Net Calling

The Contractor's Cloud-Hosted VoIP Services shall provide unlimited On-Net calling for both domestic and international calls at no additional charge. On-net calling is defined as calling from an End-User who uses the

Contractor's Cloud-Hosted VoIP Services to another End-User who uses the Contractor's Cloud-Hosted VoIP Services. If the Contractor offers SIP Trunking, Converged VoIP, or Standalone VoIP under another CALNET contract, Cloud-Hosted VoIP Services calls terminating at such a site shall be considered On-Net.

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

#### 22.2.1.11 Off-Net Calling

The Contractor's Cloud-Hosted VoIP Services shall provide Off-Net calling within the 50 United States, the District of Columbia, the Virgin Islands, and Puerto Rico at no additional charge.

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

#### 22.2.1.12 Mobile Integration

Mobile Integration provides End-Users with a single identity that lets them handle calls with equal ease via any Endpoint Device.

#### 22.2.1.12.1 Mobile Device APIs

If the Contractor's Cloud-Hosted VoIP Services integrate with other callrelated apps on mobile devices, the Contractor shall utilize Apple CallKit and/or Google ConnectionService Application Programming Interfaces (APIs).

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

#### 22.2.1.12.2 Ongoing Call Transfer

The Contractor's Cloud-Hosted VoIP Services shall allow End-Users to transfer an ongoing call between a mobile phone, softphone, or desktop phone.

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

#### 22.2.1.12.3 Find Me/Follow Me

The Contractor's Cloud-Hosted VoIP Services shall allow End-Users to configure incoming calls to ring multiple phones simultaneously or sequentially. End-Users may designate mobile phones, softphones, and/or desktop phones to participate in Find Me Follow Me Call Forwarding.

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

#### 22.2.1.13 Cloud-Hosted VolP Services Minimum Features

The Contractor shall provide the following features included in the Cloud-Hosted VoIP Service Packages.

#### 22.2.1.13.1 Audio Compression Format

The Contractor's Cloud-Hosted VoIP Services shall utilize low-latency audio codecs (e.g., Internet Low Bit Rate Codec (iLBC), Opus, etc).

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

22.2.1.13.2 Number Portability

The Contractor shall comply with the Local Number Portability (LNP) regulations set forth by the Federal Communications Commission (FCC).

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

22.2.1.13.3 Call Quality

The Contractor's Cloud-Hosted VoIP Services call quality shall have a Mean Opinion Score (MOS) of 3.7 or higher.

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

22.2.1.13.4 Facsimile over Internet Protocol Support

The Contractor shall support Facsimile over Internet Protocol (FoIP) as a hosted service.

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

22.2.1.13.5 9XX Blocking

The Contractor shall not process any calls to or from 9xx-xxx-xxxx numbers.

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

22.2.1.13.6 Auto Attendant

The Contractor's Cloud-Hosted VoIP Services shall allow Customers to configure and modify an Auto Attendant service that automatically answers incoming calls within a predefined number of rings without assistance from a live attendant.

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

22.2.1.13.7 Call Hold

The Contractor's Cloud-Hosted VoIP Services shall allow an End-User to put a caller on hold and retrieve them from the hold state.

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

22.2.1.13.8 Call Notify

The Contractor's Cloud-Hosted VoIP Services shall allow an End-User to define criteria that causes missed calls to initiate an email notification.

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

22.2.1.13.9 Call Park

The Contractor's Cloud-Hosted VoIP Services shall allow a call to be parked at an End-User's number for retrieval by another End-User line. This capability shall be administered on an individual station basis according to the Customer's needs.

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

22.2.1.13.10 Conference

The Contractor's Cloud-Hosted VoIP Services shall allow an End-User to establish a multiparty conference connection of a minimum of three conferees, including themselves, without attendant assistance.

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

22.2.1.13.11 Call Waiting

The Contractor's Cloud-Hosted VoIP Services shall alert the End-User to a second incoming call when the End-User is currently engaged in a call.

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

22.2.1.13.12 Caller ID

The Contractor's Cloud-Hosted VoIP Services shall display the phone number of the calling party on the End-User's Endpoint Device.

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

22.2.1.13.13 Conference Bridge

The Contractor's Cloud-Hosted VoIP Services shall allow callers from diverse locations and platforms to dial into a specified telephone number to participate in a conference call.

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

22.2.1.13.14 Direct Inward Dial

The Contractor's Cloud-Hosted VoIP Services shall allow Direct Inward Dial (DID), including single line appearance.

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

22.2.1.13.15 Directory Phone Display

The Contractor's Cloud-Hosted VoIP Services shall display a directory of the Customer's End-Users via the Endpoint Device.

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

22.2.1.13.16 Extension Dialing

The Contractor's Cloud-Hosted VoIP Services shall allow an End-User to reach all other On-Net End-Users within the same Customer by dialing the fewest number of digits, taking into account size of deployment, number contention, and E911 emergency requirements.

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

22.2.1.13.17 Group Pickup

The Contractor's Cloud-Hosted VoIP Services shall allow an incoming call to be picked up from any one of a predefined group of Endpoint Devices.

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

22.2.1.13.18 Hunt Groups

The Contractor's Cloud-Hosted VoIP Services shall allow inbound calls to be routed to a predetermined sequence of telephone numbers until it is answered.

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

22.2.1.13.19 Message Waiting Indicator

The Contractor's Cloud-Hosted VoIP Services shall provide a visual indication on an Endpoint Device that a message is in queue for review.

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

22.2.1.13.20 Multi-Line Appearance

The Contractor's Cloud-Hosted VoIP Services shall allow multiple line appearances on an End-User's Endpoint Device.

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

22.2.1.13.21 Redial

The Contractor's Cloud-Hosted VoIP Services shall allow an End-User to automatically originate a call to the last number dialed from their Endpoint Device.

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

22.2.1.13.22 Unified Messaging

The Contractor's Cloud-Hosted VoIP Services shall provide End-Users access to voicemail and fax messages through the same inbox or interface as the Customer's email client. The Bidder shall identify which email clients are supported by their Cloud-Hosted VoIP Services in the Bidder's Description.

# Bidder understands the Requirement and shall meet or exceed it? Yes Bidder's Description:

CenturyLink's HCS supports the viewing of email, voicemail, fax messages together from IMAP clients: Microsoft - Outlook, IBM Lotus Notes, Entourage for Mac.

# 22.2.2 Desktop Handsets

The Contractor shall make Desktop Handsets available as part of the Cloud-Hosted VoIP Service Packages described in Section 22.2.3. Desktop Handsets shall be provided by the Contractor, but will connect directly to the Customer's LAN infrastructure.

Desktop Handsets shall be available in the configurations defined below.

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

#### 22.2.2.1 Standard Handset Features

Standard handsets shall include the following features:

- 1. Single line;
- 2. LCD Display;
- 3. Full Duplex Hands Free Speakerphone;
- 4. Visual message waiting indicator;
- 5. Ring volume control;
- 6. Minimum of three programmable function keys or a soft key interface;
- 7. Single Ethernet port;
- 8. ADA Compliant Section 508;
- 9. Power over Ethernet (PoE) Support; and,
- 10. Alternating Current (AC) power supply.

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

#### 22.2.2.2 Midrange Handset Features

Midrange handsets shall include the following features in addition to the standard handset features described in Section 22.2.2.1:

- 1. Minimum three lines;
- 2. Intercom feature:
- 3. Two Ethernet Ports:
- 4. 3 Way conferencing; and,
- 5. End-User Configurable Contact Directory.

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

#### 22.2.2.3 Attendant Handset Features

Attendant handsets shall include the following features in addition to the midrange handset features described in Section 22.2.2:

- 1. Minimum of six lines:
- 2. Expansion Module(s) capability; and,
- 3. Directory integration.

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

#### 22.2.2.4 Conference Room Speakerphone Features

Conference room speakerphones shall include the following features:

- 1. Full duplex;
- 2. Expansion microphone compatible;
- 3. Ethernet Connection;
- 4. LCD display;
- 5. Lightweight Directory Access Protocol (LDAP) and/or Active Directory (AD) integration;
- 6. PoE Support; and,
- 7. AC Power Supply.

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

# 22.2.3 Cloud-Hosted VoIP Service Packages

The Contractor shall provide the following five per-seat pricing options.

- 1. Cloud-Hosted VoIP Service package that includes a Standard Handset.
- 2. Cloud-Hosted VoIP Service package that includes a Midrange Handset.
- 3. Cloud-Hosted VoIP Service package that includes an Attendant Handset.
- 4. Cloud-Hosted VoIP Service package that includes a Conference Room Speakerphone.
- 5. Cloud-Hosted VoIP Service package that does not include a Desktop Handset. This package is for End-Users who are working remotely or wish to enhance existing CALNET VoIP services where Desktop Handsets are already present.

The Bidder shall provide the Cloud-Hosted VoIP Service Packages described in Table 22.2.3.a

Table 22.2.3.a – Cloud-Hosted VoIP Service Packages

Line		Feature	Bidder's Product Description, Restrictions and	Bidder's Product	Bidder Meets or Exceeds?
Item	Feature Name Cloud-Hosted	<b>Description</b> Cloud-Hosted	Limitations This phone	Identifier CVOIP-	Yes or No. Yes
	VolP Service Package with Standard Handset	VoIP Service package that includes a Standard Handset as described in Section 22.2.2.1.	includes: Single line, LCD Display, Full Duplex Hands Free Speakerphone, Visual message waiting indicator, Visual message waiting indicator, Visual message waiting indicator, Ring volume control, Minimum of three programmable function keys or a soft key interface, Single Ethernet port, ADA Compliant Section 508, Power over Ethernet (PoE) Support, AC power supply.	0001	T C S
2	Cloud-Hosted VoIP Service Package with	Cloud-Hosted VoIP Service package that includes a	In addition to the standard handset features, this	CVOIP- 0002	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
	Midrange Handset	Midrange Handset as described in Section 22.2.2.2.	phone includes: Minimum three lines, Intercom feature, Two Ethernet Ports, 3 Way conferencing and End-User Configurable Contact Directory.		
3	Cloud-Hosted VoIP Service Package with Attendant Handset	Cloud-Hosted VoIP Service package that includes an Attendant Handset as described in Section 22.2.2.3.	In addition to the midrange handset features, the Attendant Handset also includes: Minimum of six lines, Expansion Module(s) capability and Directory integration.	CVOIP- 0003	Yes
4	Cloud-Hosted VoIP Service Package with Conference Room Speakerphone	Cloud-Hosted VoIP Service package that includes a Conference Room Speakerphone as described in Section 22.2.2.4.	Conference room speakerphones include: Full duplex, Expansion microphone compatible, Ethernet Connection, LCD display, Lightweight	CVOIP- 0004	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
			Directory Access Protocol (LDAP) and/or Active Directory (AD) integration, PoE Support and AC Power Supply.		
5	Cloud-Hosted VoIP Service Package Without Desktop Handset	Cloud-Hosted VoIP Service package that does not include a Desktop Handset.	Service package that does not include a Desktop Handsets, but does include a soft phone client. This package is for End-Users who are working remotely or wish to enhance existing CALNET VoIP services where Desktop Handsets are already present	CVOIP- 0005	Yes

The Contractor may offer additional Unsolicited Cloud-Hosted VoIP Service Package features in Table 22.2.3.b.

Table 22.2.3.b – Unsolicited Cloud-Hosted VoIP Service Package Features

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	Cisco Unified SIP Phone 3905	CVOIPU-0001	Standard: Cisco IP Phone 3900 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
2	Cisco Unified SIP Phone 6901	CVOIPU-0002	Standard: Cisco IP Phone 6900 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
3	Cisco IP Phone 7811	CVOIPU-0003	Standard: Cisco IP Phone7800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
4	Cisco IP Phone 7821	CVOIPU-0004	Standard: Cisco IP Phone7800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
5	Cisco IP Phone 7841	CVOIPU-0005	Standard: Cisco IP Phone7800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
6	Cisco IP Phone 7861	CVOIPU-0006	Standard: Cisco IP Phone7800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
7	Cisco IP Conference Phone 7832	CVOIPU-0007	Standard: Cisco IP Phone7800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
8	Cisco IP Phone 8811	CVOIPU-0008	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
9	Cisco IP Phone 8841	CVOIPU-0009	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
10	Cisco IP Phone 8845	CVOIPU-0010	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
11	Cisco IP Phone 8851	CVOIPU-0011	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
12	Cisco IP Phone 8861	CVOIPU-0012	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
13	Cisco IP Phone 8865	CVOIPU-0013	Standard: Cisco IP Phone8800 Series – inclusive of LCD Screen, Integral switch, Headset support, POE capability
14	Cisco Unified IP Conference Phone 8831	CVOIPU-0014	Standard: Cisco IP Conference Phone 8800 Series –inclusive of LCD Screen, Integral switch, Headset support, POE capability
15	Cisco IP Conference Phone 8832	CVOIPU-0015	Standard: Cisco IP Conference Phone 8800 Series –inclusive of LCD Screen, Integral switch, Headset support, POE capability
16	Cisco Wireless IP Phone 8821	CVOIPU-0016	Standard: Cisco IP Wireless Phone 8800 Series –inclusive of LCD Screen, Integral switch, Headset support, POE capability
17	Cisco Webex DX80	CVOIPU-0017	Standard Cisco Webex Phone
18	Cisco IP Phone 8800 Key Expansion Module	CVOIPU-0018	Standard Cisco 8800 Expansion Module
19	Cisco IP Phone 8851/8861 Key Expansion Module	CVOIPU-0019	Standard Cisco 8800 Expansion Module
20	Cisco IP Phone 8865 Key Expansion Module	CVOIPU-0020	Standard Cisco 8800 Expansion Module

#### 22.2.4 Additional Cloud-Hosted VolP Services

The Contractor shall provide the additional Cloud-Hosted VoIP services and features described below.

# 22.2.4.1 Cloud-Hosted VoIP Services Site Survivability Network Failure

The Contractor shall provide Standalone VoIP Site Survivability in the event of a network failure. The Contractor's Site Survivability options shall maintain station-to-station calling functionality for all handsets on premises. The Contractor's Site Survivability options shall be configured to allow the number of concurrent calls to outside lines specified by the Feature Descriptions in Table 22.2.4.a.

The Contractor is not required to include the backup circuit or wireless connection in their Site Survivability options.

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

Failure of a Customer to select this option does not release the Contractor from its SLA obligations as described in the Availability SLAs Section.

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

Site Survivability Network Failure is for backup purposes only. The Contractor shall only offer this service in conjunction with a Cloud-Hosted VoIP Service Package. The Contractor shall only utilize on premise connections to the PSTN in the event of a Cloud-Hosted VoIP Services failure.

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

The Contractor shall only route traffic originating from the locally served Customer of record.

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

The Cloud-Hosted VoIP Services Site Survivability Network Failure solution shall provide alarm notification by electronic means to the CALNET Program whenever traffic routes through the site survivability option.

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

This service is exempt from the provisions of Section 22.2.1.1 Hosted Services.

The Bidder shall describe the Network Failure Site Survivability solution that will be used to satisfy this requirement.

Any additional Bidder proposed unsolicited site survivability solutions must conform to these requirements and will fall under the SLA's established in the Service Level Agreements Section.

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

#### **Bidder's Description:**

CenturyLink will support the State's Site Survivability requirements as set forth in 22.2.4.1 above. CenturyLink will provide PRI failover as secondary and Internet as tertiary failover. The PRI failover will leverage Cisco's Unified Survivable Remote Site Telephony (SRST). Cisco Unified SRST provides Cisco Unified Call Manager with fallback support for Cisco Unified IP phones that are attached to a Cisco router on your local network. Cisco Unified SRST enables routers to provide call-handling support for Cisco Unified IP phones when they lose connection to remote primary, secondary, or tertiary Cisco Unified CM installations or when the WAN connection is down. CenturyLink will provide SRST support as a fully managed option. The state can also subscribe to an Internet tertiary failover option.

#### 22.2.4.2 Direct Inward Dial Number Reservation

The Contractor shall provide an option that allows the Customer to purchase an additional block of twenty DID numbers for future requirements. The charge shall only apply for the reservation of the block of numbers. Upon utilization of all twenty reserved DIDs, this charge shall be terminated.

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

The Bidder shall provide the Additional Cloud-Hosted VoIP Services described in Table 22.2.4.a

Table 22.2.4.a – Additional Cloud-Hosted VoIP Services

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	Cloud-Hosted VoIP Services Small Site Survivability Network Failure	Site Survivability option for a site with 100 Endpoint Devices and 15 concurrent calls to outside lines.	Customer Provided Single PRI with standard CenturyLink Managed Cisco router with SRST capability.	CVOIP-0006	Yes
2	Cloud-Hosted VoIP Services Medium Site Survivability Network Failure	Site Survivability option for a site with 500 Endpoint Devices and 75 concurrent calls to outside lines.	Customer Provided 3 PRIs with mid-range CenturyLink Managed Cisco router with SRST capability. Internet tertiary is recommended	CVOIP-0007	Yes
3	Cloud-Hosted VoIP Services Large Site Survivability Network Failure	Site Survivability option for a site with 1000 Endpoint Devices and 150 concurrent calls to outside lines.	Customer Provided Single PRI with standard CenturyLink Managed Cisco router with SRST capability.	CVOIP-0008	Yes
4	Direct Inward Dial Number Reservation	Block of 20 DID numbers held in reserve.	Option to reserve additional blocks of DID numbers for future requirements	CVOIP-0009	Yes

The Contractor may offer Unsolicited Additional Cloud-Hosted VoIP Services in Table 22.2.4.b.

Table 22.2.4.b – Unsolicited Additional Cloud-Hosted VoIP Services

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	1101110	10.01111101	
2			
3			

### 22.2.5 International Off-Net Calling

The Contractor shall provide international off-net calling to the countries listed in Table 22.2.5.a. The Bidder's rates as provided in the Category Cost Worksheets shall be based on end-point termination (landline or mobile). If the Contractor charges the same rate for both landline and mobile termination, the Bidder may use the same Product Identifier for both products.

All usage shall be billed in accordance with SOW Business Requirements Section G.6.1 (Billing and Invoicing Requirements).

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

#### 22.2.5.1 United States Based Services Waiver

The Provisions detailed in General Provisions – eVAQ, Section 92, (U.S. Based Services) will not apply to the Contractor's International Long Distance Calling Services.

# Bidder understands the Requirement and shall meet or exceed it? Yes Table 22.2.5.a – International Off-Net Calling with Landline Termination

Line Item	Country	Landline Termination Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	Brazil	CTF-0001	Yes
2	Canada	CTF-0002	Yes
3	China	CTF-0003	Yes
4	France	CTF-0004	Yes
5	Germany	CTF-0005	Yes
6	Israel	CTF-0006	Yes

Line Item	Country	Landline Termination Product Identifier	Bidder Meets or Exceeds? Yes or No.
7	Italy	CTF-0007	Yes
8	Japan	CTF-0008	Yes
9	Korea	CTF-0009	Yes
10	Mexico	CTF-0010	Yes
11	Spain	CTF-0011	Yes
12	Switzerland	CTF-0012	Yes
13	United Kingdom	CTF-0013	Yes

The Contractor may offer International Off-Net Calling with Landline Termination to unsolicited countries in Table 22.2.5.b.

Table 22.2.5.b – Unsolicited International Off-Net Calling with Landline Termination

Line Item	Country, Countries, Regions, or Groupings	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier
1			
2			
3			

Table 22.2.5.c – International Off-Net Calling with Mobile Termination

Line Item	Country	Mobile Termination Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	Brazil	CTF-0014	Yes
2	Canada	CTF-0015	Yes
3	China	CTF-0016	Yes
4	France	CTF-0017	Yes
5	Germany	CTF-0018	Yes
6	Israel	CTF-0019	Yes
7	Italy	CTF-0020	Yes
8	Japan	CTF-0021	Yes
9	Korea	CTF-0022	Yes
10	Mexico	CTF-0023	Yes
11	Spain	CTF-0024	Yes
12	Switzerland	CTF-0025	Yes
13	United Kingdom	CTF-0026	Yes

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The Contractor may offer International Off-Net Calling with Mobile Termination to unsolicited countries in Table 22.2.5.d.

Table 22.2.5.d – Unsolicited International Off-Net Calling with Mobile **Termination** 

			Bidder's
Line	Country, Countries,	Bidder's Product Description,	Product
Item	Regions, or Groupings	Restrictions and Limitations	Identifier
1			
2			
3			

#### 22.2.6 Voicemail Services

The Contractor shall provide voicemail services that are interoperable with the Cloud-Hosted VoIP Services. The voicemail service shall allow callers to leave a message for End-Users to retrieve later.

#### 22.2.6.1 Voicemail General Features

The Contractor's voicemail service shall include the general features described in Table 22.2.6.1.

Table 22.2.6.1 – Voicemail General Features

Line Item	Voicemail General Features	Bidder Meets or Exceeds? Yes or No.
1	A variety of message lengths with a minimum message	Yes
	length of at least two minutes each.	
2	Message review, including skip back or ahead.	Yes
3	Message saving and erasing.	Yes
4	Erased message retrieval.	Yes
5	Messaging forwarding to another voice mailbox in the system with the ability to append additional comments.	Yes
6	Message sending.	Yes
7	Password protection.	Yes
8	Permanent and temporary personalized greetings.	Yes
9	Message waiting indicator signal received at workstation handset, if applicable, within one minute.	Yes

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Line Item	Voicemail General Features	Bidder Meets or Exceeds? Yes or No.
10	Remote access capability from any telephone location on or off net.	Yes
11	Creation of Group Distribution Lists - Allow an administrator to define voice mail distribution lists to forward and reply to an individual or to a group of predefined recipients.	Yes
12	End-Users shall be able to access voicemail messages from Desktop Handsets, mobile phones, softphones, email, or browsers.	Yes

The Contractor shall offer the Voicemail services and features detailed in Table 22.2.6.a.

Table 22.2.6.a – Voice Mail Services

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	Voice Mail	Voicemail Service	Voicemail feature provides a single voice mailbox for all enterprise business calls.	VM-0001	Yes

The Contractor may offer additional unsolicited voicemail features in Table 22.2.6.b.

Table 22.2.6.b – Unsolicited Voice Mail Features

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

# 22.2.7 Cloud-Hosted VoIP Services Geographic Service Area

The Contractor shall provide the Cloud-Hosted VoIP Services service statewide.

# Bidder understands the Requirement and shall meet or exceed it? Yes 22.3 OTHER SERVICES

# 22.3.1 Hourly Rates for Services

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

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

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

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

# 22.3.2 Services Related Hourly Support

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

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

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

The Contractor shall offer emergency restoration services as detailed in Table 22.3.2.

Table 22.3.2 – Services Related Hourly Support

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Field Services Repair Technician Hours 8:00AM to 4:59PM, Monday through Friday.	TECH- 0004	Yes

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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Field Service Repair Technician Overtime Hours Mon-Fri 5:00 pm to 7:59 am and all day Saturday	TECH- 0005	Yes
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Field Services Technician any hours worked on Sunday or State of California holidays	TECH- 0006	Yes

# 22.3.3 Migration Professional Services

The Contractor shall provide Professional Services that support the migration of Customer telephone services. This service is limited to efforts related to the migration from one CALNET service to another CALNET service. Some examples are assistance with Customer telephone data, number porting, site surveys, site audits, inventory and record management.

The Contractor shall offer the Migration Professional Services detailed in Table 22.3.3.a.

Table 22.3.3.a – Migration Professional Services

lina		Feature	Bidder's Product Description,	Bidder's	Bidder Meets
Line Item	Feature Name	Description	Restrictions and Limitations	Product Identifier	or Exceeds? Yes or No.
1	Migration Technical Services Support I - Standard Regular Hours	Technical Services Support I for Central Office Exchange Migration only – Regular Hours	Migration Technical Services - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0001	Yes
2	Migration Technical Services Support I - Overtime Hours	Technical Services Support I for Central Office Exchange Migration only - Overtime Hours	Migration Technical Services Overtime Hours Mon-Fri 5:00 pm to 7:59 am and all day Saturday	MIG-0002	Yes
3	Migration Technical Services Support I – Sunday and Holiday Hours	Technical Services Support I for Central Office Exchange Migration only – Sunday and Holiday Hours	Migration Technical Services any hours worked on Sunday or State of California holidays	MIG-0003	Yes
4	Migration Technical Services Support II - Regular Hours	Technical Services Support II for Central Office Exchange Migration only – Regular Hours	Migration Technical Services support II - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0004	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
5	Migration Technical Services Support II - Overtime Hours	Technical Services Support II for Central Office Exchange Migration only – Overtime Hours	Migration Technical Services Support II - Overtime Hours Mon-Fri 5:00 pm to 7:59 am and all day Saturday	MIG-0005	Yes
6	Migration Technical Services Support II – Sunday and Holiday Hours	Technical Services Support II for Central Office Exchange Migration only – Sunday and Holiday Hours	Migration Technical Services Support any hours worked on Sunday or State of California holidays	MIG-0006	Yes
7	Migration Network Engineer – Regular Hours	Network Engineer for Central Office Exchange Migration only – Regular	Migration Network Engineer - Hours 8:00AM to 4:59PM, Monday	MIG-0007	Yes

Line		Feature	Restrictions and	Bidder's Product	or Exceeds?
Item	Feature Name	Description	Limitations	Identifier	Yes or No.
5	Migration Technical Services Support II - Overtime Hours	Technical Services Support II for Central Office Exchange Migration only – Overtime Hours	Migration Technical Services Support II - Overtime Hours Mon-Fri 5:00 pm to 7:59 am and all day Saturday	MIG-0005	Yes
6	Migration Technical Services Support II – Sunday and Holiday Hours	Technical Services Support II for Central Office Exchange Migration only – Sunday and Holiday Hours	Migration Technical Services Support any hours worked on Sunday or State of California holidays	MIG-0006	Yes
7	Migration Network Engineer – Regular Hours	Network Engineer for Central Office Exchange Migration only – Regular Hours	Migration Network Engineer - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0007	Yes
8	Migration Network Engineer – Overtime Hours	Network Engineer for Central Office Exchange Migration only – Overtime Hours	Migration Engineer - Overtime Hours Mon-Fri 5:00 pm to 7:59 am and all day Saturday	MIG-0008	Yes
9	Migration Network Engineer – Sunday and Holiday Hours	Network Engineer for Central Office Exchange Migration only	Migration Technical Services Network Engineer any	MIG-0009	Yes

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Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
		– Sunday and Holiday Hours	hours worked on Sunday or State of California holidays		
10	Migration Professional Services - Senior Engineer – Regular Hours	Professional Services - Senior Engineer for Central Office Exchange Migration only - Regular Hours	Migration Professional Senior Engineer Services - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0010	Yes
11	Migration Professional Services Principal Architect I – Regular Hours	Professional Services Principal Architect I for Central Office Exchange Migration only - Regular Hours	Migration Professional Principle Architect I - Services - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0011	Yes
12	Migration Professional Services - Principal Architect II – Regular Hours	Professional Services - Principal Architect II for Central Office Exchange Migration only – Regular Hours	Migration Professional Senior Principle Architect II - Hours 8:00AM to 4:59PM, Monday through Friday.	MIG-0012	Yes

Bidder may offer additional unsolicited Migration Professional Services in Table 22.3.4.b

Table 22.3.3.b – Unsolicited Migration Professional Services

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

# 22.4 SERVICE LEVEL AGREEMENTS (SLA)

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

# 22.4.1 Service Level Agreement Format

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

- 4. SLA Name Each SLA Name must be unique;
- 5. Definition Describes what performance metric will be measured;
- 6. Measurements Process Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data

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and define the points of measurement within the system, application, or network;

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

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

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

# 22.4.2 Technical Requirements Versus SLA Objectives

Sections 22.2 (Cloud-Hosted VoIP Services) and 22.3 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

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

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

# 22.4.3 Methods of Outage Reporting: Customer or Contractor

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

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

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

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

# 22.4.4 Bidder Response to Service Level Agreements

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

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

# 22.4.5 Contractor SLA Management Plan

Within 90 calendar days of Contract award, the Contractor shall provide CALNET CMO with one SLA Management Plan that describes how the Contractor will monitor and 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 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. Process may differ per service type;
- 3. Creation and delivery of SLA Reports (SOW Business Requirements Section G.10.5). The Contractor shall include a sample report in accordance with SOW Business Requirements Section G.10.5, SLA Reports for the following: SLA Service Performance Report (SOW Business Requirements Section G10.5.1), SLA Provisioning Report (SOW Business Requirements Section G.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements Section G.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements

Section G.10.5.4). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET Program via the Private Oversight Website (SOW Business Requirements Section G.10.2);

- 4. SLA invoicing credit and refund process;
- 5. Contractor SLA problem resolution process for Customer SLA and SLA reporting issues. The Contractor shall provide a separate process for Customers and CALNET Program; and,
- 6. Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include the SLA Manager contact information for SLA inquiries and issues resolution for Customer and CALNET Program.

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

# 22.4.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET Technical SLAs (Section 22.4.8).

- 1. With the exception of Provisioning SLA (Section, 22.4.8.6) 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);
- If a circuit or service fails to meet one or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
- 3. The Contractor shall apply CALNET SLAs and remedies for services provided by Affiliates and/or Subcontractors under this Contract;
- 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 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 form for the Provisioning SLA (Section 22.4.8.6);
- 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 SLAs to CALNET Program for possible inclusion via amendments;
- The Contractor shall apply CALNET SLAs and remedies to services provided in geographic areas which the Contractor is required to provide service;
- 10. The election by CALNET Program of any SLA remedy covered by this Contract shall not exclude or limit CALNET Program or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
- 11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
- 12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Affiliates, Subcontractors or resellers under this Contract;
- 13. The Customer Escalation Process and/or the CALNET CMO Escalation Process shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
- 14. Trouble reporting and restoration shall be provided 24x7 for CALNET services;
- 15. SLAs apply 24x7 unless SLA specifies an exception;
- 16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with SOW Business Requirements Section G.6 (Billing and Invoicing);
- 17. The Contractor shall provide a CALNET SLA Manager responsible for CALNET SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET Program SLA oversight, report issues, and problem resolution

- concerns. The CALNET SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;
- 18. The Contractor shall provide Customer and CALNET Program support for SLA inquiries and issue resolution; and,
- 19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the Customer.

## 22.4.7 Trouble Ticket Stop Clock Conditions

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 22.4.7, which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) or Customer provisioning Service Request for each application of an SCC. The Contractor shall not consider "cleared while testing" or "no trouble found" as a SCC.

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

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

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

Stop Clock Conditions are limited to the conditions listed in Table 22.4.7.

Table 22.4.7 – Stop Clock Conditions

Line Item	Stop Clock Condition (SCC)	SCC Definition
1	END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User's request is documented and time stamped in the Contractor's trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.

Line		
Item	Stop Clock Condition (SCC)	SCC Definition
2	OBSERVATION	Time after a service has been restored but End- User request ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the Service has not been restored.
3	END-USER NOT AVAILABLE	Time after a service has been restored but End- User is not available to verify that the Service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between Contractor's reasonable attempt to notify the End-User that Contractor believes the service has been restored and the time the End- User notifies the Contractor that the Service has not been restored.
4	WIRING	Restoration cannot be achieved because the problem has been isolated to wiring that is not maintained by Contractor or any of its Subcontractors or Affiliates. If it is later determined the wiring is not the cause of failure, the SCC shall not apply.
5	POWER	Trouble caused by a power problem outside of the responsibility of the Contractor.
6	CUSTOMER PROVISIONING DELAY	Delays to Provisioning caused by lack of Customer's building entrance Facilities, conduit structures that are the Customer's responsibilities or Extended demarcation wiring. If the Service Providing Contractor has been contracted by the Customer for extended demarcation, this SCC shall not apply to missed dates/times. The Customer Provisioning Delay SCC is restricted to Provisioning SLAs only.
7	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following:

Line		
Item	Stop Clock Condition (SCC)	SCC Definition
		<ul> <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> </ul>
		b. Site contact refuses access to technician who displays proper identification;
		c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; or,
		d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.
		If it is determined later that the cause of the problem was not at the site in question, then the Access SCC shall not apply.
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.

Line		
Item	Stop Clock Condition (SCC)	SCC Definition
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from
		Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET DNCS service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.
14	FORCE MAJEURE	Force Majeure events, as defined in the eVAQ General Provisions - Telecommunications, Section 28 (Force Majeure).
15	CUSTOMER ENVIRONMENTAL	An outage directly caused by customer premise environmental conditions, which are outside the control and responsibility of the Contractor. This includes a non-secured location, excessive heat or lack of cooling. If determined later that the environmental conditions were not the cause of the service outage, or a result of the Contractor modifying Contractor provided equipment without Customer's approval, the Customer Environmental SCC will not apply.

22.4.8 Technical Service Level Agreements (SLA)

22.4.8.1 Availability (M-S)

**SLA Name:** Availability

#### **Definition:**

The percentage of time a CALNET Data Networks or Cloud-Hosted VoIP Services service is fully functional and available for use each calendar month.

#### **Measurement Process:**

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

#### Services:

Cloud-Hosted VoIP Services

## Objective A:

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

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Cloud-Hosted VoIP Services	≥ 99.9%	≥ 99.99%	≥ 99.999%	P

## **Rights and Remedies:**

- 1. Per Occurrence:
  - 20% credit or refund of the TRMC and two Business Days of ADUC, when usage applies, for each Cloud-Hosted VoIP Services service/feature impacted by the service failure.
- 2. Monthly Aggregated Measurements:
  - N/A

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

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

**SLA Name:** Catastrophic Outage 1 (CAT 1)

#### **Definition:**

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

Failure of two or more service types

#### **Measurement Process:**

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

#### Services:

Cloud-Hosted VoIP Services

## Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
	≤ 1	≤ 30	≤ 15	P
Cloud-Hosted VoIP Services	Hour	Minutes	Minutes	•

## **Rights and Remedies:**

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

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

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

**SLA Name:** Catastrophic Outage 3 (CAT 3)

#### **Definition:**

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

#### **Measurement Process:**

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

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

#### Services:

Cloud-Hosted VoIP Services

## **Objectives:**

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

	Basic	Standard	Premier	Bidder's Objective Commitment
Service Type	(B)	<b>(</b> S)	(P)	(B, S or P)
	≤ 30		≤ 15	D
Cloud-Hosted VoIP Services	Minutes	N/A	Minutes	r

## **Rights and Remedies:**

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

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

22.4.8.4 Excessive Outage

**SLA Name:** Excessive Outage

#### **Definition:**

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

#### **Measurement Process:**

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

#### Services:

Cloud-Hosted VolP Services

## **Objectives:**

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

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Cloud-Hosted VoIP Services	12 Hours	10 Hours	8 Hours	P

## **Rights and Remedies:**

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

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

22.4.8.5 Notification (M-S)

**SLA Name:** Notification

**Definition:** 

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

#### **Measurement Process:**

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

#### Services:

All Services

## **Objectives:**

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

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

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

## **Rights and Remedies:**

- 1. Per Occurrence:
  - Senior Management Escalation

- 2. Monthly Aggregated Measurements:
  - N/A

22.4.8.6 Provisioning (M-S)

**SLA Name:** Provisioning

#### **Definition:**

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

## Provisioning SLAs have two objectives:

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

#### **Measurement Process:**

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

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

#### Services:

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

Service	Committed Interval Days	Coordinated/Managed Project
Cloud-Hosted VoIP Services	30	Coordinated/Managed Project

## **Objectives:**

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

Objective 2: Successful Install Monthly Percentage per Service:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
Cloud-Hosted VoIP Services	≥ 90%	N/A	≥ 95%	P

## **Rights and Remedies:**

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

22.4.8.7 Time To Repair (M-S)

**SLA Name:** Time to Repair

#### **Definition:**

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

#### **Measurement Process:**

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

#### Services:

Cloud-Hosted VolP Services

#### **Objectives:**

The Unavailable Time objective shall not exceed:

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Cloud-Hosted VoIP Services	6 Hours	5 Hours	4 Hours	P

## **Rights and Remedies:**

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#### 1. Per Occurrence:

- 25% credit or refund of the TMRC and three Business Days ADUC, when applicable, per occurrence for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.
- 2. Monthly Aggregated Measurements:
  - N/A

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

#### 22.4.8.8 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

# 22.4.8.9 Proposed Unsolicited Offerings

The contractor shall provide SLAs as defined in SLA Section 22.4.8 for each unsolicited offering determined by the CALNET Program not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

## 22.4.8.10 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in Section 22.4.8.

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