AT&T

IFB STPD 12-001-A, C3-A-12-10-TS-01

CalNet 3, Category 1: Voice and Data Services
Subcategory 1.2 – MPLS, VPN and Converged VoIP

Volume 2: Response to Unique Subcategory Requirements
SOW Technical Requirements Response

Amendment #10, Rev. May 25, 2018

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Exhibit 8: Contractor's License Information

Attached is Exhibit 8: Contractor's License Information.

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EXHIBIT 8: CONTRACTOR'S LICENSE INFORMATION

(Installation Services Only)

For Subcategory: 1.2 MPLS, VPN & Converged VoIP

Name of Bidder: AT&T Corp.

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

CONTRACTOR

Class C-7, C-10, and Class B License No: 760249
Licensee: Pacific Bell Telephone Company Expiration Date: 03/31/2019
Relationship of Licensee to Contractor: Wholly Owned Subsidiary

SUBCONTRACTOR 1

Class _____ License No: _____
Licensee: _____ Expiration Date: _____
Relationship of Licensee to Subcontractor: _____

SUBCONTRACTOR 2

Class _____ License No: _____
Licensee: _____ Expiration Date: _____
Relationship of Licensee to Subcontractor: _____

(Use additional sheets if necessary.)

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Exhibit 9: Service Taxes, Fees, Surcharges and Surcredits

Please see the following pages for AT&T's response to Exhibit 9.

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 2

b) The jurisdiction and organization that issued the law, resolution or order: FCC

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): FUSF Federal Universal Service Fee (UCC Univeral Connectivity Charge

d) The citations in law, regulation or order: CFR 69.158

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.gpo.gov/fdsys/pkg/CFR-2008-title47-vol3/pdf/CFR-2008-title47-vol3-sec69-155.pdf

f) The date the law, resolution or order was released: 1984

g) The date the law, resolution or order becomes effective: 1984

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: Cost recovery for mandated contributions to the Universal Service fund.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1-1.6: all MPLS, Toll Free Domestic, Toll Free International, Toll Free Netwrk Access Transport, all VOIP products, DS0, DS1, DS3 Interlata, SIP calling plans, Audio conferencing, Anira, NBFW, ATS, MLAN, Unified Communications

j) The amount of the service tax, fee, surcharge or surcredit: 15.1000%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 12

b) The jurisdiction and organization that issued the law, resolution or order: BOE

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): California State E911 Tax or Emergency Telephone Users Surcharge

d) The citations in law, regulation or order: Revenue and Taxation Code § 41001-41049

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.leginfo.ca.gov/.html/rtc_table_of_contents.html

f) The date the law, resolution or order was released: 1998

g) The date the law, resolution or order becomes effective: 1998

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: This surcharge provides funding for Emergency Telephone Service (911) in California

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1.2.5.3, 1.6.2.3.2, 1.6.2.4, 1.6.2.5,1.6.2.6, 1.6.3.2.1, 1.6.3.2.2, 1.2.3.2.4: VOIP services, SIP trunking, Unified Communications, ISDN PRI, Business access services, Centrex services, Co trunk services,ISDN BRI service

j) The amount of the service tax, fee, surcharge or surcredit: 0.5000%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

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Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 13

b) The jurisdiction and organization that issued the law, resolution or order: BOE

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): Sales and Use Tax

d) The citations in law, regulation or order: http://www.boe.ca.gov/sutax/pam71.htm

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.boe.ca.gov/sutax/pam71.htm

f) The date the law, resolution or order was released: Prior to 1984

g) The date the law, resolution or order becomes effective: Prior to 1984

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: Tax on the sale or use of tangible personal property.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.2, 1.6.2.4: All CPE that is sold outright to end users

j) The amount of the service tax, fee, surcharge or surcredit: 7.25% plus an local sales taxes for that taxing area

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 14

b) The jurisdiction and organization that issued the law, resolution or order: local taxing authorities

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): varies by local ordinance

d) The citations in law, regulation or order: Local Tax Ordinances

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.uutinfo.org/uutinfo_city_Menu.htm

f) The date the law, resolution or order was released: varies by local ordinance

g) The date the law, resolution or order becomes effective: varies by local ordinance

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: Various localities impose a Utility Users' Tax on utilities (such as telephone, electricity, gas, sewer, water, cable TV, etc.) to fund local services.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: varies by local ordinance: varies by local ordinance

j) The amount of the service tax, fee, surcharge or surcredit: varies by local ordinance

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): Varies by local ordinance

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 15

b) The jurisdiction and organization that issued the law, resolution or order: local taxing authorities

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): varies by local ordinance

d) The citations in law, regulation or order: Local Tax Ordinances

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.uutinfo.org/uutinfo_city_Menu.htm

f) The date the law, resolution or order was released: varies by local ordinance

g) The date the law, resolution or order becomes effective: varies by local ordinance

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: Various localities impose a E911 Local Flat Fee services to fund local emergency 911 service.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1.2.5.3, 1.6.2.3.2, 1.6.2.4, 1.6.2.5,1.6.2.6, 1.6.3.2.1, 1.6.3.2.2, 1.2.3.2.4: VOIP services, SIP trunking, Unified Communications, ISDN PRI, Business access services, Centrex services, Co trunk services,ISDN BRI service

j) The amount of the service tax, fee, surcharge or surcredit: varies by local ordinance

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 16

b) The jurisdiction and organization that issued the law, resolution or order: IRS

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): Federal Excise Tax

d) The citations in law, regulation or order: Internal Revenue Code § 4251-4253

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.irs.gov/pub/irs-pdf/p510.pdf

f) The date the law, resolution or order was released: 1898

g) The date the law, resolution or order becomes effective: 1898

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: Federal tax originally created in support of the Spanish-American War is currently used for the support of the Federal General Fund

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: All services: All Services

j) The amount of the service tax, fee, surcharge or surcredit: 3.0000%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; Yes

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp.

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 18

b) The jurisdiction and organization that issued the law, resolution or order: FCC

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): Federal access recovery fee (FARF)

d) The citations in law, regulation or order: CFR 69.158

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.gpo.gov/fdsys/pkg/CFR-2008-title47-vol3/pdf/CFR-2008-title47-vol3-sec69-155.pdf

f) The date the law, resolution or order was released: 2008

g) The date the law, resolution or order becomes effective: 7/1/2008

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: The Federal Access Recovery Fee (FARF) is a charge designed to recover, in part, AT&T's costs of purchasing local access service from the Local Exchange Carriers (LECs), which include regulatory fees that LECs assess on AT&T

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1-1.6: Interstate/Interlata Data services, all MPLS, Toll Free Domestic, Toll Free International, Toll Free Netwrk Access Transport, all VOIP products, DS0, DS1, DS3 Interlata, SIP calling plans, Audio conferencing, Anira, NBFW, ATS, MLAN, Unified Communications

j) The amount of the service tax, fee, surcharge or surcredit: 0.5000%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

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Bidder/Contractor name: AT&T Corp

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 21

b) The jurisdiction and organization that issued the law, resolution or order: FCC

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): Propert Tax allotment

d) The citations in law, regulation or order: AT&T Tariffs – FCC No.11 and FCC No. 13

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://serviceguidenew.att.com/sg_CustomPreviewer?attachmentId=00PC000000KD1WXMA1

f) The date the law, resolution or order was released: prior to 2006

g) The date the law, resolution or order becomes effective: prior to 2006

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: The recovery of an expense that A&T is required to pay. This expense represents the interstate portion of state and local property taxes imposed on AT&T.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1-1.6: Interstate/Interlata Data services, all MPLS, Toll Free Domestic, Toll Free International, Toll Free Netwrk Access Transport, all VOIP products, DS0, DS1, DS3 Interlata, SIP calling plans, Audio conferencing, Anira, NBFW, ATS, MLAN, Unified Communications

j) The amount of the service tax, fee, surcharge or surcredit: 4.0500%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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EXHIBIT 9: SERVICE TAXES, FEES, SURCHARGES AND SURCREDITS

Bidders shall identify all service taxes, fees, surcharges and surcredits that they plan to include on their invoices. Bidders shall submit a copy of this form for each service tax, fee, surcharge and surcredits that they plan to include on their invoices for each Subcategory. Attach additional pages as necessary.

Bidder/Contractor name: AT&T Corp

a) The Contractor's identification number for the service tax, fee, surcharge or surcredit: 22

b) The jurisdiction and organization that issued the law, resolution or order: FCC

c) The name of the service tax, fee, surcharge or surcredit (the name must match the name or abbreviation used by the issuing authority): Administrative Expens Recovery fee

d) The citations in law, regulation or order: http://www.serviceguide.att.com/ABS/ext/GTCDetails.cfm

e) A copy of the law, resolution or order, including URL web addresses of the citations and the released document(s): http://www.serviceguide.att.com/ABS/ext/GTCDetails.cfm

f) The date the law, resolution or order was released: prior to 2006

g) The date the law, resolution or order becomes effective: prior to 2006

   i. If the effective date is dependent upon another activity (such as 30 days from the publication of the order in the Federal Register), the Contractor shall so state.

   ii. When the effective date is dependent upon another activity, the Contractor shall again notify the CALNET 3 CMO within 10 days after the dependent activity occurs. Such subsequent notification shall identify the contingent action, the date of the action, and the new effective date.

h) Purpose of the service tax, fee, surcharge or surcredit: This fee recovers a portion of AT&T's internal costs associated with the FCC's Universal Service Fund.

i) Identification of the CALNET 3 Category 1 Subcategory affected, and all CALNET 3 Services within that Subcategory which are affected: 1.1-1.6: Interstate/Interlata Data services, all MPLS, Toll Free Domestic, Toll Free International, Toll Free Netwrk Access Transport, all VOIP products, DS0, DS1, DS3 Interlata, SIP calling plans, Audio conferencing, Anira, NBFW, ATS, MLAN, Unified Communications

j) The amount of the service tax, fee, surcharge or surcredit: 0.8800%

k) The Customer locations affected, (e.g., all Customers statewide, name of city or other jurisdiction); and is the State exempt? (yes/no): All customers statewide; No

l) Additional comments as warranted:

Name of Bidder/Contractor contact person for follow up: Julie Kibler

Phone number: 916-486-7726 Email address: jk2427@att.com

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Exhibit 10: Bidding Preferences and Incentives

Attached is the completed and signed Exhibit 10.

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Exhibit 10: BIDDING PREFERENCES AND INCENTIVES

For Subcategory: 1.2 MPLS, VPN & Converged VoIP

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

1. SMALL BUSINESS PREFERENCE

Bidder must check the appropriate box from the choices below.

☐ I am a DGS certified Small Business and claim the Small Business Preference.
My DGS Small Business certification number is: _____

☐ I have recently filed for DGS Small Business preference but have not yet received certification, but I am claiming the Small Business preference.

☐ I am not a DGS certified Small Business, but 25% or more of the revenue from the award will go to DGS certified Small Business Subcontractors performing a Commercially Useful Function and therefore I am claiming the preference.
Bidder must complete and submit Exhibit 11, GSPD-05-105 Bidder Declaration, indicating the percentage of the revenue that will be received by each DGS certified Small Business Subcontractor.

☒ I am not claiming the DGS Small Business preference.

2. DVBE INCENTIVE

Bidder must check the appropriate box from the choices below.

☐ I am a DGS certified DVBE. A copy of my STD. form 843 is attached.

☐ I have recently filed for DGS DVBE certification, but have not yet received certification.

☐ I am not a DGS certified DVBE, but a percentage of the revenue will be going to DGS certified DVBE Subcontractors performing a Commercially Useful Function, and therefore I am claiming the DVBE incentive.
Bidder must submit a complete Exhibit 11, GSPD-05-105, Bidder Declaration, indicating the percentage of the revenue that will be received by each DGS certified DVBE Subcontractor. Bidder must also submit an Exhibit 10, STD 843 DVBE Declarations, for each DVBE Subcontractor, signed by the DVBE owner/manager.

☒ I am not claiming the DVBE incentive.

EXHIBIT 10, CONTINUED

3. ADDITIONAL BIDDING PREFERENCES

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

☒ I am not claiming the TACPA preference, the EZA preference, or the LAMBRA preference.

☐ I am claiming the TACPA bidding preference.
Bidder must submit Exhibit 12, STD 830.

☐ I am claiming the EZA bidding preference.
Bidder must submit Exhibit 13, STD 831.

☐ I am claiming the LAMBRA bidding preference.
Bidder must submit Exhibit 14, STD 832.

Name of Bidder: AT&T Corp.

Signature and Date: _____

Exhibit 11: STD 843, DVBE Declarations

AT&T is not claiming a DVBE incentive

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Exhibit 12: GSPD 05-105, Bidder Declaration

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

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State of California—Department of General Services, Procurement Division
GSPD–05–105 (REV 08/09)

Solicitation Number Subcategory 1.2

BIDDER DECLARATION

1. Prime bidder information (**Review attached Bidder Declaration Instructions prior to completion of this form**):

   a. Identify current California certification(s) (**MB, SB, NVSA, DVBE**): _____ **or None** ☑ (If "None", go to Item #2)

   b. Will subcontractors be used for this contract? **Yes** ☐ **No** ☐ (If yes, indicate the distinct element of work your firm will perform in this contract e.g., list the proposed products produced by your firm, state if your firm owns the transportation vehicles that will deliver the products to the State, identify which solicited services your firm will perform, etc.). Use additional sheets, as necessary.

   c. If you are a California certified DVBE: (1) Are you a broker or agent? **Yes** ☐ **No** ☐
   (2) If the contract includes equipment rental, does your company own at least 51% of the equipment provided in this contract (quantity and value)? **Yes** ☐ **No** ☐ **N/A** ☐

2. If no subcontractors will be used, skip to certification below. Otherwise, list all subcontractors for this contract. (Attach additional pages if necessary):

Subcontractor Name, Contact Person, Phone Number & Fax Number	Subcontractor Address & Email Address	CA Certification (MB, SB, NVSA, DVBE or None)	Work performed or goods provided for this contract	Corresponding % of bid price	Good Standing?	51% Rental?
Interactive Digital Solutions, Inc. Tracy Mills (W) 317.770.3521 (F) 317.770.3528	915 Sutter St. Suite 105 Folsom, CA 95630 tmills@e-idsolutions.com	None	Audio/Video Collaboration Unified Communications Video Streaming Video as a Service (VaaS)	< 1%	☑	☐
Mitel, Inc. Bill Dillon (W) 469.365.3571 (C) 972.672.9092	5850 Granite Pkwy Granite Park IV, Suite 600 Plano, TX 75024 bill.dillon@mitel.com	None	Converged VoIP Svc Features	< 1%	☑	☐
					☐	☐

CERTIFICATION: By signing the bid response, I certify under penalty of perjury that the information provided is true and correct.

Page 1 of 1

Exhibit 13: STD 830, TACPA Preference Request

AT&T is not claiming TACPA preference.

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Exhibit 14: STD 831, EZA Preference

AT&T is not claiming EZA preference.

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Exhibit 15: STD 832, LAMBRA Preference Request

AT&T is not claiming LAMBRA preference.

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Subcategory 1.2 –MPLS, VPN, & Converged VoIP

1.2.1 Overview

This Subcategory 1.2 IFB provides the State's solicitation for best value solutions for MPLS, Converged VoIP, IP Audio, and Session Initiated Protocol Trunking services. This IFB also describes the CALNET 3 technical requirements necessary to support the CALNET 3 program requirements.

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

1.2.1.1 Bidder Response Requirements

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

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

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

Or,

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

"Bidder understands the requirements in Section xxx and shall meet or exceed them? Yes_____ No_____

Description:"

1.2.1.2 Designation of Requirements

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

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

included as billable in the Subcategory Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

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

1.2.1.3 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 **X** *No* _____

1.2.2 Multi-Protocol Label Switching (MPLS) Services

Bidders shall confirm that the Contractor's Multi-Protocol Label Switching (MPLS) Wide Area Network (WAN) Virtual Private Network (VPN) service will meet all of the requirements described in Table 1.2.2.

Table 1.2.2. MPLS Service Functionality

	MPLS Service Functionality	Bidder Meets or Exceeds? Y	N
1	Contractors shall provide a private MPLS WAN (VPN) service for the networking of all voice, video and data applications.	Y	
	Bidder's Product Description: AT&T VPN service is an MPLS based service and provides wide area networking of all voice, video and data applications.		
2	The MPLS WAN VPN service shall support voice, video and data applications over a single access connection with individual Class of Service (CoS) to allow each set of applications to be transported within its service specifications.	Y	
	Bidder's Product Description: AT&T VPN service supports voice, video and data applications over a single access connection with individual Class of Service (CoS) to allow each set of applications to be transported within its service specifications.		
3	The MPLS WAN VPN service shall support the ability to assign specific application priority over other applications.	Y	
	Bidder's Product Description: AT&T VPN service supports the ability to assign specific application priority over other applications.		

	MPLS Service Functionality	Bidder Meets or Exceeds? Y	N
4	The MPLS WAN VPN service shall provide any-to-any connectivity	Y	
	Bidder's Product Description: AT&T VPN service provides any-to-any connectivity.		
5	The MPLS WAN VPN service shall not use the public Internet for transport. Remote access to this solution may use the public Internet.	Y	
	Bidder's Product Description: AT&T VPN service does not use the public Internet for transport. Secure remote access via the public Internet can be provided.		
6	The MPLS WAN VPN service shall be a fully Managed Service that includes the Customer Edge router as described in 7c below	Y	
	Bidder's Product Description: AT&T VPN service can be provided as a fully Managed Service up to and including the Customer Edge router.		
7	The MPLS WAN VPN service shall support the following configurations:		
7a	Port only configuration	Y	
	Bidder's Product Description: AT&T VPN service supports port only configurations.		
7b	Bundled port and access configuration	Y	
	Bidder's Product Description: AT&T VPN service supports bundled port and access configurations.		
7c	Bundled port, access and Customer Edge router configuration	Y	
	Bidder's Product Description: AT&T VPN service supports bundled port, access and Customer Edge router configurations.		

1.2.2.1 MPLS Industry Security Standards

1. Upon demand by the CALNET 3 CMO, Contractor will provide for viewing at Contractor's facility the security controls in force for both the MPLS WAN and converged VoIP infrastructure as well as independent audit results of those controls for authorized State personnel (under NDA). This will include the full scope of controls NIST SP 800-53, ISO/IEC 27001, or equivalent.

2. If Contractor determines that a breach of data has occurred within the Contractor's MPLS WAN that may involve CALNET 3 Customer data, the nature and scope of the breach (as it affects Customer data) must be reported to both the Customer and the CALNET 3 CMO within 24 hours of that determination.
3. If Contractor determines that a breach of infrastructure has occurred within the Contractor's MPLS WAN that may involve CALNET 3 Customer data, the nature and scope of the breach (as it affects Customer data) must be reported to both the Customer and the CALNET 3 CMO within 24 hours of that determination.
4. Contractor shall apply available patches and/or updates which remediate published vulnerabilities within the following timeframe requirements to the Contractor managed Customer Edge Devices:

Table 1.2.2.1, Security Patches

Vulnerability CVSS2 Base Score	Informal Category Name	Max Time to Apply Patch/Update
9.1 – 10.0	Critical	Within 14 days
8.0 – 9.0	High	Within 21 days
5.0 – 7.9	Moderate	Within 60 days
Below 5.0	Low	Within 90 days

5. Contractor shall provide to the CALNET 3 CMO an annual report of the 12 month prior patching/update activity including min/avg/max time from patch/update release to install categorized by the classifications found in table 1.2.2.1 for all Contractor managed Customer Edge Devices.
6. Contractor shall provide to the CALNET 3 CMO an annual report detailing all (if any) actual violations of security protections, policies, practices, and/or procedures involving Contractor managed Customer Edge Devices and what remediations were implemented.

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

1.2.2.1.1 MPLS Physical Security

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

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

1.2.2.1.2 Protection against Unauthorized Access

Contractor shall provide access controls for all equipment through which data traverses Contractor's MPLS WAN complying with the physical security controls of NIST SP 800-53, ISO/IEC 27001, or equivalent standards.

Bidders shall state the access security controls in force for this equipment.

Bidder understands the requirements in 1.2.2.1.2 and shall meet or exceed them? *Yes* **X** *No*_____

Description:

Protection against Unauthorized Access

Network security measures fall into two categories:

1) Protect the network elements from attack/compromise that could be used to change the router VPN configuration, and

2) Protect the infrastructure from malicious or inadvertent transit traffic storms that could consume router resources and thus impact the service performance or availability for other customers on the shared infrastructure.

AT&T implements perimeter filters to protect the infrastructure from being reachable from the exterior; hardening and turning-off unnecessary router services; TACACS+ authentication, authorization and logging or all infrastructure access, including limiting commands that can be executed by role; physical router security; automated provisioning of customer specific router configuration, to preclude human error, coupled with discrepancy exception report; and protecting/including network operation center functionality inside the infrastructure perimeter. AT&T protects the stability of the routing control plane with rate limits on BGP routes learned or absolute limits on the number of routers learned; and implements extensive DoS monitoring and reactive mitigation controls, including black-hole routing and scrubber complexes.

AT&T's inherent, standards-based, MPLS VPN design assures that data cannot leak into or out of one VPN into another. Automated provisioning tools assure that the customer-specific portions of the router configuration are free from human error and minimize that possibility that an access link/interface will be 'bound' to the VRF of another customer.

The routes to the core network management systems are not advertised beyond the PE router elements. Thus, with the exception of limited number of people authorized to log onto a PE router and issue commands, it is not possible to use the network management systems to inject traffic into a customer VPN. (And even then it may not be possible to establish a two-way connection and the command activity would be logged).

The connectivity between the service management systems and the managed premises CE router is implemented as an RFC 2547/4364 extranet VPN (The service management

complex has routes to all the customer CE routers, but the customer CE routers only see a route back to the management system and do not know how to route traffic to other CE routers). Thus, this connectivity cannot be exploited to route traffic from one VPN to another unless the service management systems are compromised (These systems are DMZ hardened, support only authentication and authorized access, and are protected by intrusion detection systems). These routes are not advertised beyond the CE router into the CE LAN interfaces.

AT&T protects the core network against compromise by:

- Hardening the routers and turning off unnecessary services
- Implementing TACACS+ authentication, authorization and accounting for router access/commands.
- Automated provisioning of router configuration driven from ordering systems, to minimize human error, complimented by daily discord reports and investigation.
- 24/7 monitoring and DoS mitigation tools
- Route dampening and/or limiting total number of routers learned to protect routing stability.
- Firewalls, IDS, token based authentication, encrypted remote access for network and service management systems/work centers.

1.2.2.2 MPLS WAN VPN Standards

Bidders shall confirm that the Contractor's CALNET 3 MPLS WAN VPN services meet all of the standards described in Table 1.2.2.2.

Table 1.2.2.2 MPLS WAN VPN Standards

	Standard	Bidder Meets or Exceeds? Y	N
1	International Engineering Task Force (IETF) Standards Track Request for Comments (RFC's) for IPv6 when/where offered commercially by the Contractor.	Y	
2	All Standards Track IETF RFC's associated with MPLS constrained by Border Gateway Protocol (BGP) routing	Y	
3	All Standards Track IETF RFC's associated with Transport of Layer 2 frames over MPLS	Y	
4	IETF MPLS Working Group Standards Track RFCs	Y	
5	IETF Layer 3 VPN Working Group Standards Track RFCs	Y	
6	IETF Pseudo Wire Emulation Edge-to-Edge Working Group Standards Track RFCs	Y	

	Standard	Bidder Meets or Exceeds? Y	N
7	All IETF Standards Track RFC's associated with:		
7a	General IPSec	Y	
7b	Encapsulating Security Payload (ESP) and Authentication Header (AH)	Y	
7c	Key Exchange, Cryptographic Algorithms	Y	
7d	Internet Protocol Security (IPSec) Policy Handling	Y	
7e	IPSec Management Information Bases (MIBs)	Y	
7f	Remote Access, Certificate Authorities	Y	
7g	Secure Socket Layer (SSL) and Transport Layer Security (TLS)	Y	
8	Encryption, if offered, shall meet Triple Data Encryption Standard (3DES) and Advanced Encryption Standard (AES) in accordance with the appropriate Federal Information Processing standard (FIPS) publications and modules, including FIPS 140-2.	Y	

1.2.2.3 MPLS Performance Metrics

Bidders shall confirm that the Contractor's solution will meet all of the requirements described in Table 1.2.2.3.

Table 1.2.2.3, MPLS Performance Metrics

	Requirement	Bidder Agrees? Y	N
1	Service availability shall be 99.9% measured port to port	Y	
2	MPLS shall have a packet loss of <0.2% measured port to port	Y	
3	MPLS shall have jitter <10ms measured port to port	Y	

1.2.2.4 MPLS Required Geographic Service Areas

The Contractor shall provide MPLS services in all Incumbent Local Exchange Carrier (ILEC) territories open to competition as defined by the California Public Utilities Commission (CPUC) where facilities are available either through bidder owned facilities or through resale of Incumbent Local Exchange Carrier facilities.

For DS3 access and below, the Contractor shall provide MPLS services at the same monthly rate and same non-recurring charge in all ILEC territories open to competition as determined by the CPUC for all On-Net and Off-Net locations.

For Optical Carrier (OC) or Ethernet access, the Contractor shall provide MPLS services at the same monthly rate and same non-recurring charge in all ILEC territories open to competition as determined by the CPUC for all Contractor On-net locations. Monthly recurring and non-recurring charges for Off-net locations shall be handled on an Individual Case Basis (ICB).

Ethernet services shall only be used in conjunction with MPLS services and not as a standalone service.

Bidder shall identify the strategy for establishing agreements with ILECs in areas open to competition as defined by the CPUC necessary to provide end-to-end service in these areas. Agreements shall be in effect at Contract award.

Bidder shall describe how MPLS service will be provided in ILEC territories closed to competition as defined by the CPUC necessary to provide service in these areas. The description shall include billing arrangements (such as "pass-through", "meet point"), invoicing and price structure. Contractor shall commit to establishing business relationships with these ILECs.

Bidder understands the requirements in Section 1.2.2.4 and shall meet or exceed them? Yes **X** *No_____*

Description:

MPLS Required Geographic Service Areas

AT&T will offer MPLS service and baseline pricing statewide to CALNET 3 customers located in our traditional franchise territory, and as well as outside our traditional franchise territory for DS3 and below access where allowed by CPUC D.95-12-056 (facilities based CLECs) and CPUC D. 95-12-057 (resale CLECs) (for Pacific and Verizon) and CPUC D. 97-09-115 (Roseville and Citizens/Frontier).

OC and Ethernet access services and baseline pricing will be provided in the same fashion for in territory and out of territory areas open to competition for on-net locations. For other customers receiving service outside our traditional franchise territory, we will flow-through the rates, service levels and billing arrangements offered by the relevant ILEC. In ILEC territories not open to competition, the customer will be invoiced directly by the ILEC for services purchased in their territories. If in the future these ILECs are opened for competition or special contract rates, we will negotiate contract relationships to enhance the CALNET 3 contract where possible.

1.2.2.5 MPLS Network Designs and Diagrams

Bidders shall provide network designs and diagrams for the network and MPLS services listed under this Section 1.2.2 (MPLS Services).

Bidders shall provide two (2) hard copies and one (1) electronic copy with their proposal. Electronic drawings shall be in .dwg, .dfx, .vsd or any mutually agreed format. Hard copy drawings shall be provided in standard D size.

Drawings must include a thorough presentation of how the Contractor's network(s) deployed for each service type will address the following:

1. Redundancy – Having one (1) or more circuits/systems deployed in case of failure of the main circuits/systems; and

2. Diversity – Backbone network paths and infrastructure offered in such a way as to minimize the chance of a single point of failure.

The Contractor shall provide revisions upon CALNET 3 CMO request.

Drawings shall include both topology and logical representations of all critical network backbone elements to include but not be limited to the following:

7. Geographic location of equipment;
8. Type and capacity of equipment at each location including any backup systems;
9. Service type;
10. Unique identifier for each element;
11. Circuit type; and,
12. General circuit route

Bidder understands the requirements in Section 1.2.2.5 and shall meet or exceed them? Yes **X** *No*_____

Embedded Soft Copy of Drawing (Optional):

1.2.2.6 Intentionally Deleted

1.2.2.7 MPLS Technical Requirements

Bidder shall confirm that its MPLS solution to be deployed for CALNET 3 will include the technical features and functionality described in Table 1.2.2.7

Table 1.2.2.7, MPLS Technical Requirements

	Requirement	Bidder Meets or Exceeds? Y N	
1	Contractors shall be able to scale the number of VPNs supported by the network.	Y	
	Bidders shall describe here the Contractor's ability to scale the number of VPNs: The AT&T VPN network has tens of thousands of customers. The AT&T VPN network is very robust and scalable with the ability to handle and increase capacity as demand requires with no theoretical upper limit to the number of VPNs across the network.		
2	Contractor shall support multiple VPNs per access loop	Y	
	Bidders shall describe here the number of VPN's that will be supported in any one (1) access loop: There are 12 VPNs that can be supported for any one (1) access loop via UNILINK feature.		
3	Contractor shall support multiple VPNs across the MPLS network	Y	
	Bidders shall describe here the number of VPN's that will be supported across the Bidder's MPLS network: The AT&T VPN network provides a "virtually unlimited" number of VPNs.		
4	Contractor shall provide the rapid service restoration practices for all MPLS deployments in accordance with the SLAs in Section 1.2.9.8 (Technical Service Level Agreements)	Y	
	Bidders shall describe here the Contractor's specific processes that will be employed to operate or restore services in the face of unanticipated incidents, disasters or catastrophes: AT&T has deployed the world's largest intelligent optical network constructed of Ciena intelligent optical switches; this infrastructure consists of 650 intelligent optical switches deployed within the U.S., EMEA and AP regions of the world. This physical layer network enables faster service restoration; faster in the event of a failure or disaster. AT&T's MPLS traffic engineering across our global backbone network is based upon MPLS-Fast ReRoute (MPLS-FRR). Multiple, diversely routed backbone trunks interconnect all city pairs and the network has been designed and is capacity-managed to be single-link and single node survivable. Each backbone node is interconnected to at least two others with multiple-diversely routed physical facilities. Backbone trunk restoration is performed by layer 3 in addition to being protected by MPLS Fast ReRoute configured to utilize diverse physical paths from the primary route. Edge devices are connected to two backbone P core routers for additional reliability.		
5	Contractor shall provide redundant network circuits in the backbone network	Y	
	Bidders shall describe here the specific network configurations that will be utilized to provide redundancy to survive failures in the backbone network: In the U.S. the AT&T MPLS backbone consists of a core OC768/OC192 network constructed from the AT&T-owned physical infrastructure, using Cisco CRS1s as backbone core routers. All backbone routers (P/PE devices) are deployed in highly redundant configurations; each IP/MPLS core node contains a minimum of two backbone (P core) routers connected to a minimum of two different other core nodes.		

	Requirement	Bidder Meets or Exceeds? Y N	
6	Contractor shall provide network diversity to eliminate single points of failure in the backbone network	Y	
	Bidders shall describe here the diversity that will be designed in the MPLS network to eliminate single points of failure in the backbone network: Multiple, diversely routed backbone trunks interconnect all city pairs and the network has been designed and is capacity-managed to be single-link and single node survivable. Each backbone node is interconnected to at least two others with multiple-diversely routed physical facilities. Backbone trunk restoration is performed by layer 3 in addition to being protected by MPLS Fast ReRoute configured to utilize diverse physical paths from the primary route. Edge devices are connected to two backbone P core routers for additional reliability.		
7	Contractor shall provide a remote access service that allows an off-net Customer location access to any on-net Customer site contained within the same VPN. The solution may utilize the public Internet.	Y	
	Bidders shall describe here the specific remote access Customers shall have to the MPLS: AT&T Network Based IP VPN Remote Access (ANIRA) is a solution which enables a customer to access MPLS networks by connecting through the Internet. There are multiple options as to the authentication. ANIRA uses dial-up, broadband (AT&T DSL or any third party), Wi-Fi, or cellular broadband to remotely access your data network without needing special VPN routers. (See unsolicited features.)		
8	The remote access service shall be secured.	Y	
	Bidders shall describe here how the MPLS remote access solution will be secured: ANIRA provides network security through Internet Protocol Security (IPSec) tunnels and Secure Socket Layer (SSL) transparent tunneling. ANIRA supports IPSec tunnels from the VPN device (either the AT&T Global Network Client or the AT&T VPN Gateway) to the Virtual Interface Gateway (VIG) in the network. IPSec provides security at the network layer to protect data as it travels between devices. In addition, the remote access SSL transparent tunneling feature employs the SSL protocol with Triple Data Encryption Standard (3DES) encryption, where available, to send and receive information between the AT&T Global Network Client and the shared VIG. AT&T does provide Radius authentication service or customer could use their own.		

	Requirement	Bidder Meets or Exceeds? Y N	
	The MPLS WAN VPN service shall support controlled and monitored connections between the MPLS network and the public Internet via a hardened trusted managed firewall	Y	
9	Bidders shall describe here the hardened trusted managed firewall that will be provided and how it will be used to control and monitor connections between the MPLS network and the public Internet: AT&T Managed Security Service – Network Based Firewall (MSS-NBFW) is designed to help enterprises implement and monitor Internet access for multiple sites. The Service will enable businesses to support and enforce sophisticated network Security Policies from one or more of the AT&T Internet Data Centers where the Network Based Security platform reside, also referred to as the Security Data Center (SDC). Customers are able to more efficiently implement a consistent Security Policy for multiple sites. Designating configuration complexity, there are three levels available as a part of AT&T's MSS-Network Based service. These levels are: • Low Complexity • Medium Complexity • High Complexity All complexity levels support both inbound and outbound traffic through the MFS-NB platform. Complexity categorization is determined by examining the required traffic types that would be passing through the gateway. AT&T completes the policy administration on the equipment but also allows the Customer to make changes to certain configuration settings. Starting at Medium Complexity Level, advanced add-on features, such as Web Filtering, Advanced, Malware Scanning Advanced, Active IDS/IPS Advanced and User Authentication support are available. By picking the right feature sets, customers can obtain additional features, such as blocking access to specified web sites, and support for extranets via a monitored, private connection between the Customer and a business partner or monitor malicious activity by enabling Intrusion Detection/Intrusion Prevention. MSS-Network Based Firewall enforces traffic separation among Customers by enabling Virtual Local Area Network (VLAN) tagging. For Customers who wish to make use of the AT&T MFS-Network Based (MFS Firewall service, AT&T will establish a Private Virtual Circuit (PVC) from a Customer location to the service in order to filter the traffic coming in or going to the Internet. The type of PVC will vary based on the Customer's WAN architecture. Traffic separation is designed to occur without tunneling or encryption. This is enabled through a combination of Border Gateway Protocol (BGP), MPLS, and IP address resolution as described below. BGP is a routing information distribution protocol that is designed to define who can talk to whom using multi-protocol extensions and community attributes. VPN membership depends upon logical ports entering the VPN, where BGP assigns a unique route distinguisher. In an MPLS-enabled VPN, BGP distributes forwarding information base tables about VPNs to members of the same VPN. This is designed to permit users to participate on an Intranet and Extranet only if they reside on the correct physical or logical port and have the proper route distinguisher.		

	Requirement	Bidder Meets or Exceeds? Y N	
	A packet received by the network backbone is associated with a particular VPN. A forwarding table associated with the particular VPN is used, along the originating IP address, to determine a set of possible egress interfaces and the packet's IP destination address. (See unsolicited features.)		
10	Contractor shall list points-of-presence (PoP) where provider edge routers are located	Y	

Bidders shall list here the locations of all PoPs where provider edge routers are deployed for CALNET 3 and the associated common language location identifier (CLLI):

CLLI	City	State	LATA
albynyss	Albany	NY	134
ancrakza	Anchorage	AK	832
anhmca01	Anaheim	CA	730
atlnganw	Atlanta	GA	438
atlngatl	Atlanta	GA	438
austtxgr	Austin	TX	558
bltmmdch	Baltimore	MD	238
brhmalmt	Birmingham	AL	476
chcgilcl	Chicago	IL	358
chrlncca	Charlotte	NC	422
chshct02	Cheshire	CT	920
clevoh02	Cleveland	OH	320
clmasctl	Columbia	SC	434
clmboh11	Columbus	OH	324
cmbrma01	Cambridge	MA	128
dllstxtl	Dallas	TX	552
dnvrcoma	Denver	CO	656
dtrtmiba	Detroit	MI	340
ftldflov	Ft. Lauderdale	FL	460
ftwotxed	Ft. Worth	TX	552
gdrpmibl	Grand Rapids	MI	348
grdnca02	Gardena	CA	730
hstntx01	Houston	TX	560
iplsinat	Indianapolis	IN	336
kscymo09	Kansas City	MO	524
lsanca02	Los Angeles	CA	730
ltrkarfr	Little Rock	AR	528
mdsnwi02	Madison	WI	354
milwwihe	Milwaukee	WI	356
mmphtnma	Memphis	TN	468
mplsmndt	Minneapolis	MN	628
nsvltnmt	Nashville	TN	470
nworlama	New Orleans	LA	490
nwrknj02	Newark	NJ	224
nycmny54	New York City	NY	132

	Requirement	Bidder Meets or Exceeds? Y N

okbriloa	Oakbrook	IL	358
okcyokce	Oklahoma City	OK	536
okldca03	Oakland	CA	722
omahnenw	Omaha	NE	644
orldflma	Orlando	FL	458
phlapasl	Philadelphia	PA	228
phnxazma	Phoenix	AZ	666
pitbpadg	Pittsburgh	PA	234
ptldor62	Portland	OR	672
rcmdvagr	Richmond	VA	248
rlghncmo	Raleigh	NC	426
scrmca01	Sacramento	CA	726
slkcutma	Salt Lake City	UT	660
snantxca	San Antonio	TX	566
sndgca02	San Diego	CA	732
snfcca01	San Francisco	CA	722
snfcca21	San Francisco	CA	722
snjsca02	San Jose	CA	722
spfdmotl	Springfield	MO	522
stlsmo09	St. Louis	MO	520
sttlwa02	Seattle	WA	674
sttlwa06	Seattle	WA	674
tulsoktb	Tulsa	OK	538
washdcdt	Washington	DC	236
washdcsw	Washington	DC	236

11	The MPLS WAN VPN service shall be resilient	Y	

Bidders shall describe here the minimum level of service that will be maintained amid network failure:

AT&T operates one of the largest and most reliable and resilient IP/MPLS networks in the U.S. In the U.S., the AT&T MPLS backbone consists of a core OC768/OC192 network constructed from the AT&T-owned physical infrastructure, using Cisco CRS1s as backbone core routers. All backbone routers (P/PE devices) are deployed in highly redundant configurations; each IP/MPLS core node contains a minimum of two backbone (P core) routers connected to a several other P core nodes in a meshed fashion.

Multiple, diversely routed backbone trunks interconnect all city pairs and the network has been designed and is capacity-managed to be single-link and single node survivable. Each backbone node is interconnected to at least two others with multiple-diversely routed physical facilities. Backbone trunk restoration is performed by layer 3 in addition to being protected by MPLS Fast ReRoute configured to utilize diverse physical paths from the primary route. Edge devices (RPM blades or routers, depending upon size of customer connection) are connected to two backbone P core routers for additional reliability.

	Requirement	Bidder Meets or Exceeds? Y N	
	AT&T engineers and capacity-manages its network to be single-link, single-node "survivable." In a simple example, if a given POP is connected via two facilities, utilization is monitored so that each link is not utilized more than 42%, so that there is sufficient capacity for the second link to carry all the traffic in the event of a failure. All U.S. nodes are deployed within AT&T owned and controlled POPs. These highly reliable secure facilities are guarded and manned 24x7 and are only accessible to authorized personnel. All nodes are protected by dual uninterruptible power sources, including both battery backup and emergency diesel generators. In addition, a robust disaster recovery scheme is tested regularly to ensure that all components work in the event of a power failure.		
12	Contractor shall provide support for multiple Layer 2 access protocols	Y	
	Bidders shall describe here the Layer 2 access protocols that will be utilized with the Contractor's solution: AT&T VPN service supports the following layer 2 protocols: • PPP for access to a single VPN • MLPPP for bonding multiple T1s for access to a single VPN • Frame relay encapsulation for access to multiple VPNs4 • Ethernet Access		
13	Contractor shall provide segregation of Customer traffic in a VPN environment	Y	
	Bidders shall describe here how the solution will segregate Customer traffic in a VPN and any additional features included by the Contractor at no cost that are available to Customers to protect access to Customer data: AT&T's inherent, standards-based, MPLS VPN design assures that data cannot leak into or out of one VPN into another. Automated provisioning tools assure that the customer-specific portions of the router configuration are free from human error and minimize that possibility that an access link/interface will be 'bound' to the VRF of another customer. The routes to the core network management systems are not advertised beyond the PE router elements. Thus, with the exception of limited number of people authorized to log onto a PE router and issue commands, it is not possible to use the network management systems to inject traffic into a customer VPN. And even then it may not be possible to establish a two-way connection and the command activity would be logged.		

	Requirement	Bidder Meets or Exceeds? Y N	
	The connectivity between the service management systems and the managed premises CE router is implemented as an RFC 2547/4364 extranet VPN (The service management complex has routes to all the customer CE routers, but the customer CE routers only see a route back to the management system and do not know how to route traffic to other CE routers). Thus, this connectivity cannot be exploited to route traffic from one VPN to another unless the service management systems are compromised (These systems are DMZ hardened, support only authentication and authorized access, and are protected by intrusion detection systems). These routes are not advertised beyond the CE router into the CE LAN interfaces.		
14	The MPLS WAN VPN service shall support IPv4 Capability	Y	
	Bidder's Product Description: AT&T VPN service supports IPv4.		
15	The MPLS WAN VPN service shall support IPv6 Capability when/where offered commercially by the Contractor	Y	
	Bidder's Product Description: AT&T VPN service supports IPv6.		
16	The Contractor shall provide MPLS port diversity capability within the same MPLS POP	Y	
	Bidders shall describe here the MPLS port diversity capability to be included in the Contractor's solution: AT&T VPN service offers a port diversity option capability in the same MPLS POP. (See unsolicited features.)		
17	The Contractor shall provide MPLS PoP diversity capability	Y	
	Bidders shall describe here the MPLS point-of-presence diversity capability to be included in the Contractor's solution: AT&T VPN service offers a POP diversity option capability. (See unsolicited features.)		
18	The Contractor shall provide dial backup capability to support routing of traffic outside of the MPLS network in case of MPLS network failure	Y	
	Bidders shall describe here the dial backup capability supported by the Contractor's solution: AT&T can provide a POTS or ISDN dial backup capability option on AT&T Managed routers. Requires customer to purchase POTS or ISDN lines.		
19	The MPLS WAN VPN service shall support IP Multicasting	Y	
	Bidders shall describe here the maximum number of multicast routes that will be supported by the Contractor's solution: AT&T VPN service Multicast Feature is subject to defined maximum Multicast route limitations (mroutes). A mroute is created whenever an active multicast flow exists in the VPN and the limit is currently 100 mroutes.		

<table>
<tr><th></th><th>Requirement</th><th>Bidder Meets or Exceeds? Y N</th><th></th></tr>
<tr><td rowspan="2">20</td><td>The MPLS WAN VPN service shall provide Multiple CoS to support the prioritization of Entity applications and traffic flows</td><td>Y</td><td></td></tr>
<tr><td colspan="3">Bidders shall describe here the CoS levels that will be supported for CALNET 3 and the ingress/egress profiles supported by the Contractor's solution. Bidders shall describe here the mechanisms that will be used for CALNET 3 that allow the Customer to mark packets for treatment that corresponds to the ingress/egress policy chosen:

AT&T has established a set of standard Class of Service profiles and associated DSCP markings for treatment of the various traffic classes across the network. These are shown in the table below.

The CE router is responsible for classifying the traffic and setting the DSCP bits to align with AT&T preferred values. CoS values will be transported end-to-end if they are in alignment with AT&T's conforming markings. Traffic that is marked incorrectly or has no marking will be given the default treatment of best effort across the network.

In an unmanaged router scenario, it is the customer's responsibility to configure the CE router to classify the traffic by marking the MPLS packet header with an EXP value identifying treatment in the network. For incoming IPv4 packets the IP Precedence/DSCP bit values are used to map to network EXP values.

In an AT&T managed router scenario, the client is interviewed to understand applications and how they should be treated by the network and the router is configured for the appropriate CoS profile.

<table>
<tr><th>Class of Service</th><th>Traffic Priority</th><th>In-Contract Marking</th><th>Out-of-Contract Marking</th></tr>
<tr><td>COS1</td><td>URGENT (Real-Time)</td><td>DSCP EF</td><td>Dropped</td></tr>
<tr><td>COS2V</td><td>VIDEO</td><td>DSCP AF41</td><td>DSCP AF42</td></tr>
<tr><td>COS2</td><td>HIGH (Critical Data)</td><td>DSCP AF31</td><td>DSCP AF32</td></tr>
<tr><td>COS3</td><td>MEDIUM (Business Data)</td><td>DSCP AF21</td><td>DSCP AF22</td></tr>
<tr><td>COS4</td><td>NORMAL (Standard Data)</td><td>DSCP DEFAULT</td><td>DSCP DEFAULT</td></tr>
<tr><td>COS5</td><td>SCAVENGER</td><td>DSCP AF11</td><td>DSCP AF12</td></tr>
</table></td></tr>
<tr><td rowspan="2">21</td><td>The MPLS WAN VPN service shall support the division of an MPLS port into multiple logical channels such that each logical channel can be used to support a VPN.</td><td>Y</td><td></td></tr>
<tr><td colspan="3">Bidder's Product Description:

AT&T VPN service supports the division of an MPLS port into multiple logical channels such that each logical channel can be used to support a VPN.</td></tr>
<tr><td rowspan="2">22</td><td>The MPLS WAN VPN service shall support access speeds from 128 Kbps to 10 Gbps</td><td>Y</td><td></td></tr>
<tr><td colspan="3">Bidder's Product Description:

AT&T VPN service supports access speeds from 128 Kbps to 10 Gbps.</td></tr>
</table>

	Requirement	Bidder Meets or Exceeds? Y N	
23	The MPLS WAN VPN service shall support multiple network interfaces	Y	
	Bidders shall list here the network interfaces that will be supported for CALNET 3, e.g., Dedicated Private Line, SONET, or Ethernet: AT&T VPN service supports the following network interfaces: • Dedicated Private Line DS1, NxT1, DS3 (PPP) • Sonet OCxx • Ethernet • DSL		
24	The MPLS WAN VPN service shall support multiple Layer 2 protocols	Y	
	Bidders shall list here the Layer 2 protocols that will be supported for CALNET 3: AT&T VPN service supports the following the layer 2 protocols: • PPP for access to a single VPN • MLPPP for bonding multiple T1s for access to a single VPN • Frame relay encapsulation for access to multiple VPNs4 • Ethernet Access		
25	The MPLS WAN VPN service shall support wireless Customer access capability to the MPLS network	Y	
	Bidder's Product Description: AT&T VPN service supports wireless customer access capability via our remote secure access product ANIRA described in requirements 7 and 8 above. It supports all AT&T WiFi as well as 3G and 4G (LTE) and third party wireless internet speeds. (See unsolicited features)		
26	The MPLS WAN VPN service shall support Digital Subscriber Line (DSL) with speeds from 128 Kbps to 1500 Kbps	Y	
	Bidder's Product Description: AT&T VPN service supports DSL Access speeds 128Kbps to 1500Kbps. Requires DSL access.		
27	The MPLS WAN VPN service shall support Customer access to the MPLS network via satellite communications	Y	
	Bidders shall list here all of the satellite communications speeds that will be supported for CALNET 3: AT&T VPN service supports customer access capability via satellite communications. 128Kbps – 1Gbps speeds can be supported. AT&T has satellite provider partnerships with the ability to supply satellite services. Requires satellite access.		

	Requirement	Bidder Meets or Exceeds? Y N	
28	The MPLS service shall include inside wiring/demarcation extension up to 300 feet in Customer provided conduit.	Y	
	Bidder's Product Description: AT&T VPN service will include inside wiring/demarcation extension up to 300 feet in Customer provided conduit.		
29	The MPLS service shall include business line and modem for out-of-band emergency access to the managed router	Y	
	Bidder's Product Description: AT&T VPN service will include a business line and modem for out-of-band emergency access to the managed router.		
30	Contractor shall identify managed router reports available at no additional charge. Bidder shall describe the method of accessing these reports.	Y	
	Bidder's Product Description: AT&T VPN will provide managed router reports at no additional charge via a web portal. These reports are available via the web. Operations management reports are provided on a scheduled periodic basis, with each report displaying information gathered during the previous period's activity. The standard network operations reports include basic router performance as well as WAN and LAN utilization information. The following is a list of available reports: • Inventory Report • IP/SLA Pair Inventory Report • Executive Summary Report – Volume • Executive Summary Report – IP/SLA Pair • Executive Summary Report – QoS • Top N Report • Device Report • Device Interface Report • QoS Report • Jitter Report • IP/SLA Latency Report • Multiple Element Report • Single Parameter Report		

	Requirement	Bidder Meets or Exceeds? Y N	
Contractor shall provide fully Managed Router Solution bundles that include:			
31a	Router Maintenance. Proactively detect, isolate and resolve hardware, software and firmware faults associated with the managed router and modem used for access to the managed router. The Contractor shall also respond to Customer reported faults. Router maintenance shall be provided 24x365. If dispatch is required, a Field Service Repair Technician shall arrive within four (4) hours of isolating the fault to the managed router/modem. Customer shall be notified of router faults and be provided trouble status at (1) hour intervals.	Y	
	Bidder's Product Description: AT&T has read and understands the State's requirements for Router Maintenance and will meet or exceed these requirements.		
31b	Router Monitoring. Proactively detect, isolate and resolve logical faults associated with the managed router. Router monitoring shall be provided 24x365.	Y	
	Bidder's Product Description: AT&T has read and understands the State's requirements for Router Monitoring and will meet or exceed these requirements.		
31c	Router Management. Manage router configuration. This includes passwords, access lists and configuration changes due to moves, adds, changes and deletes.	Y	
	Bidder's Product Description: AT&T has read and understands the State's requirements for Router Management and will meet or exceed these requirements.		
31d	Network Monitoring. Proactively detect, isolate and resolve network faults. Network monitoring shall be provided 24x365. Customer shall be notified of network faults and be provided trouble status at one (1) hour intervals.	Y	
	Bidder's Product Description: AT&T has read and understands the State's requirements for Network Monitoring and will meet or exceed these requirements.		

1.2.2.8 MPLS Transport Speeds

Contractor's CALNET 3 solution shall include transport options to one (1) endpoint for each of the speeds detailed in Tables 1.2.2.8. Pricing for each of these speeds will be provided by the Bidder in the response to the Subcategory Cost Worksheets.

1.2.2.8.1 MPLS Port Transport Speeds

Table 1.2.2.8.1.a, MPLS Port Transport Speeds

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
1	MPLS Transport DS1 Port svc at min. line rate128 Kbps	Y		17974
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 128 Kbps			
2	MPLS Transport DS1 Port svc at min. line rate 384 Kbps	Y		17978
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 384 Kbps			
3	MPLS Transport DS1 Port svc min. line rate 512 Kbps	Y		17980
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 512 Kbps			
4	MPLS Transport DS1 Port svc min. line rate 768 Kbps	Y		17984
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 768 Kbps			
5	MPLS Transport DS1 Port svc min. line rate of 1.024 Mbps	Y		17985
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 1.024 Mbps			
6	MPLS Transport DS1 Port svc min. line rate 1.544 Mbps	Y		17986
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 1.544 Mbps			
7	MPLS Transport NxDS1 Port svc min. line rate 3.088 Mbps	Y		17990
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 3.088 Mbps			
8	MPLS Transport NxDS1 Port svc min. line rate 4.632 Mbps	Y		17992
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 4.632 Mbps			
9	MPLS Transport NxDS1 Port svc min. line rate 6.176 Mbps	Y		17994
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 6.176 Mbps			

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
10	MPLS Transport NxDS1 Port svc min. line rate 7.720 Mbps	Y		17996
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 7.720 Mbps			
11	MPLS Transport NxDS1 Port svc min. line rate 9.264 Mbps	Y		17998
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 9.264 Mbps			
12	MPLS Transport DS3 Port svc min. line rate 10 Mbps	Y		17999
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 10 Mbps			
13	MPLS Transport Port NxDS1 Port svc at min. line rate 10.808 Mbps	Y		18001
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 10.808 Mbps			
14	MPLS Transport NxDS1 Port svc at min. line rate 12.352 Mbps	Y		18003
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 12.352 Mbps			
15	MPLS Transport DS3 Port svc at min. line rate 20 Mbps	Y		18007
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 20 Mbps			
16	MPLS Transport DS3 Port svc at min. line rate 45 Mbps	Y		18013
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 45 Mbps			
17	MPLS Transport OC3 Port svc at min. line rate 155 Mbps	Y		18015
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 155 Mbps			
18	MPLS Transport OC12 Port svc at min. line rate 622 Mbps	Y		18021
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 622 Mbps			

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
19	MPLS Transport Eth. Port svc at min. line rate 1 Mbps	Y		19616
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 1 Mbps			
20	MPLS Transport Eth. Port svc at min. line rate 2 Mbps	Y		19617
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 2 Mbps			
21	MPLS Transport Eth. Port svc at min. line rate 3 Mbps	Y		19618
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 3 Mbps			
22	MPLS Transport Eth. Port svc at min. line rate 4 Mbps	Y		19619
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 4 Mbps			
23	MPLS Transport Eth. Port svc at min. line rate 5 Mbps	Y		17995
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 5 Mbps			
24	MPLS Transport Eth. Port svc at min. line rate 6 Mbps	Y		19620
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 6 Mbps			
25	MPLS Transport Eth. Port svc at min. line rate 7 Mbps	Y		19621
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 7 Mbps			
26	MPLS Transport Eth. Port svc at min. line rate 8 Mbps	Y		19622
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 8 Mbps			
27	MPLS Transport Eth. Port svc at min. line rate 9 Mbps	Y		19623
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 9 Mbps			

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
28	MPLS Transport Eth. Port svc at min. line rate 10 Mbps	Y		17999
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 10 Mbps			
29	MPLS Transport Eth. Port svc at min. line rate 20 Mbps	Y		18007
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 20 Mbps			
30	MPLS Transport Eth. Port svc at min. line rate 30 Mbps	Y		18009
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 30 Mbps			
31	MPLS Transport Eth. Port svc at min. line rate 40 Mbps	Y		19624
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 40 Mbps			
32	MPLS Transport Eth. Port svc at min. line rate 50 Mbps	Y		18010
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 50 Mbps			
33	MPLS Transport Eth. Port svc at min. line rate 60 Mbps	Y		19625
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 60 Mbps			
34	MPLS Transport Eth. Port svc at min. line rate 70 Mbps	Y		19626
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 70 Mbps			
35	MPLS Transport Eth. Port svc at min. line rate 80 Mbps	Y		19627
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 80 Mbps			
36	MPLS Transport Eth. Port svc at min. line rate 90 Mbps	Y		19628
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 90 Mbps			

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
37	MPLS Transport Eth. Port svc at min. line rate 100 Mbps	Y		18014
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 100 Mbps			
38	MPLS Transport Eth. Port svc at min. line rate 200 Mbps	Y		18016
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 200 Mbps			
39	MPLS Transport Eth. Port svc at min. line rate 300 Mbps	Y		18017
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 300 Mbps			
40	MPLS Transport Eth. Port svc at min. line rate 400 Mbps	Y		18018
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 400 Mbps			
41	MPLS Transport Eth. Port svc at min. line rate 500 Mbps	Y		18019
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 500 Mbps			
42	MPLS Transport Eth. Port svc at min. line rate 600 Mbps	Y		18020
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 600 Mbps			
43	MPLS Transport Eth Port svc at min. line rate 700 Mbps	Y		18022
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 700 Mbps			
44	MPLS Transport Eth Port svc at min. line rate 900 Mbps	Y		18024
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 900 Mbps			
45	MPLS Transport Eth Port svc at min. line rate 1 Gbps	Y		18025
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 1 Gbps			

The Contractor may offer additional unsolicited MPLS Port Transport Speeds in Table 1.2.2.8.1.b.

Table 1.2.2.8.1.b Unsolicited MPLS Port Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	MPLS Transport DS3 svc at min. line rate 15 Mbps	MPLS Transport DS3 Port service at minimum line rate of 15 Mbps	18005
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 15 Mbps		
2	MPLS Transport DS3 svc at min. line rate 25 Mbps	MPLS Transport DS3 Port service at minimum line rate of 25 Mbps	18008
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 25 Mbps		
3	MPLS Transport DS3 svc at min. line rate 30 Mbps	MPLS Transport DS3 Port service at minimum line rate of 30 Mbps	18009
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 30 Mbps		
4	MPLS Transport DS3 svc at min. line rate 50 Mbps	MPLS Transport DS3 Port service at minimum line rate of 50 Mbps	18010
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 50 Mbps		
5	MPLS Transport OC3 svc at min. line rate 75 Mbps	MPLS Transport OC3 Port service at minimum line rate of 75 Mbps	18011
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 75 Mbps		
6	MPLS Transport Eth. svc at min. line rate 150 Mbps	MPLS Transport Eth. Port service at minimum line rate of 150 Mbps	19629
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 150 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
7	MPLS Transport Eth. svc at min. line rate 250 Mbps	MPLS Transport Eth. Port service at minimum line rate of 250 Mbps	20410
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 250 Mbps		
8	MPLS Transport Eth. svc at min. line rate 450 Mbps	MPLS Transport Eth. Port service at minimum line rate of 450 Mbps	20401
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 450 Mbps		
9	MPLS Transport Eth. svc at min. line rate 800 Mbps	MPLS Transport Eth. Port service at minimum line rate of 800 Mbps	18023
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 800 Mbps		
10	MPLS Transport Eth. svc at min. line rate 2 Gbps	MPLS Transport Eth. Port service at minimum line rate of 2 Gbps	21943
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 2 Gbps		
11	MPLS Transport Eth. svc at min. line rate 2.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 2.5 Gbps	21944
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 2.5 Gbps		
12	MPLS Transport Eth. svc at min. line rate 3 Gbps	MPLS Transport Eth. Port service at minimum line rate of 3 Gbps	21945
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 3 Gbps		
13	MPLS Transport Eth. svc at min. line rate 3.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 3.5 Gbps	21946
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 3.5 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
14	MPLS Transport Eth. svc at min. line rate 4 Gbps	MPLS Transport Eth. Port service at minimum line rate of 4 Gbps	21947
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 4 Gbps		
15	MPLS Transport Eth. svc at min. line rate 4.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 4.5 Gbps	21948
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 4.5 Gbps		
16	MPLS Transport Eth. svc at min. line rate 5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 5 Gbps	21949
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 5 Gbps		
17	MPLS Transport Eth. svc at min. line rate 5.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 5.5 Gbps	21950
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 5.5 Gbps		
18	MPLS Transport Eth. svc at min. line rate 6 Gbps	MPLS Transport Eth. Port service at minimum line rate of 6 Gbps	21951
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 6 Gbps		
19	MPLS Transport Eth. svc at min. line rate 6.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 6.5 Gbps	21952
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 6.5 Gbps		
20	MPLS Transport Eth. svc at min. line rate 7 Gbps	MPLS Transport Eth. Port service at minimum line rate of 7 Gbps	21953

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 7 Gbps		
21	MPLS Transport Eth. svc at min. line rate 7.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 7.5 Gbps	21954
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 7.5 Gbps		
22	MPLS Transport Eth. svc at min. line rate 8 Gbps	MPLS Transport Eth. Port service at minimum line rate of 8 Gbps	21955
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 8 Gbps		
23	MPLS Transport Eth. svc at min. line rate 8.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 8.5 Gbps	21956
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 8.5 Gbps		
24	MPLS Transport Eth. svc at min. line rate 9 Gbps	MPLS Transport Eth. Port service at minimum line rate of 9 Gbps	21957
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 9 Gbps		
25	MPLS Transport Eth. svc at min. line rate 9.5 Gbps	MPLS Transport Eth. Port service at minimum line rate of 9.5 Gbps	21958
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 9.5 Gbps		
26	MPLS Transport Eth. svc at min. line rate 10 Gbps	MPLS Transport Eth. Port service at minimum line rate of 10 Gbps	21959
	Bidder's Product Description: MPLS Transport Port service at minimum line rate of 10 Gbps-		

	Feature Name	Feature Description	Bidder's Product Identifier
	POP Diversity	MPLS Port POP Diversity	Multiple – Feature IDs listed below
	Bidder's Product Description: AT&T will provision each group of MPLS Ports to switches or routers at a different AT&T POPs or group of AT&T POPs. An MPLS Port may not be included in more than one POP Diversity group.		
27	POP Diversity -128 Kbps	MPLS Port POP Diversity - 128 Kbps	18095
	Bidder's Product Description MPLS Port POP Diversity -128 Kbps		
28	POP Diversity -256 Kbps	MPLS Port POP Diversity - 256 Kbps	18097
	Bidder's Product Description: MPLS Port POP Diversity - 256 Kbps		
29	POP Diversity -384 Kbps	MPLS Port POP Diversity - 384 Kbps	18099
	Bidder's Product Description: MPLS Port POP Diversity - 384 Kbps		
30	POP Diversity -512 Kbps	MPLS Port POP Diversity - 512 Kbps	18101
	Bidder's Product Description: MPLS Port POP Diversity - 512 Kbps		
31	POP Diversity -768 Kbps	MPLS Port POP Diversity - 768 Kbps	18105
	Bidder's Product Description: MPLS Port POP Diversity - 768 Kbps		
32	POP Diversity - 1 Mbps	MPLS Port POP Diversity - 1 Mbps	19644
	Bidder's Product Description: MPLS Port POP Diversity - 1 Mbps		
33	POP Diversity - 1024 Kbps	MPLS Port POP Diversity - 1024 Kbps	18106

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Port POP Diversity - 1024 Kbps		
34	POP Diversity - 1.544 Mbps	MPLS Port POP Diversity - 1.544 Mbps	18107
	Bidder's Product Description: MPLS Port POP Diversity - 1.544 Mbps		
35	POP Diversity - 2 Mbps	MPLS Port POP Diversity - 2 Mbps	19645
	Bidder's Product Description: MPLS Port POP Diversity - 2 Mbps		
36	POP Diversity - 3 Mbps	MPLS Port POP Diversity - 3 Mbps	19646
	Bidder's Product Description: MPLS Port POP Diversity - 3 Mbps		
37	POP Diversity - 3.088 Mbps	MPLS Port POP Diversity - 3.088 Mbps	18111
	Bidder's Product Description: MPLS Port POP Diversity - 3.088 Mbps		
38	POP Diversity - 4 Mbps	MPLS Port POP Diversity - 4 Mbps	19647
	Bidder's Product Description: MPLS Port POP Diversity - 4 Mbps		
39	POP Diversity - 4.632 Mbps	MPLS Port POP Diversity - 4.632 Mbps	18113
	Bidder's Product Description: MPLS Port POP Diversity - 4.632 Mbps		
40	POP Diversity - 5 Mbps	MPLS Port POP Diversity - 5 Mbps	18116
	Bidder's Product Description: MPLS Port POP Diversity - 5 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
41	POP Diversity - 6 Mbps	MPLS Port POP Diversity - 6 Mbps	19648
	Bidder's Product Description: MPLS Port POP Diversity - 6 Mbps		
42	POP Diversity - 6.176 Mbps	MPLS Port POP Diversity - 6.176 Mbps	18115
	Bidder's Product Description: MPLS Port POP Diversity - 6.176 Mbps		
43	POP Diversity - 7 Mbps	MPLS Port POP Diversity - 7 Mbps	19649
	Bidder's Product Description: MPLS Port POP Diversity - 7 Mbps		
44	POP Diversity - 7.720 Mbps	MPLS Port POP Diversity - 7.720 Mbps	18117
	Bidder's Product Description: MPLS Port POP Diversity - 7.720 Mbps		
45	POP Diversity - 8 Mbps	MPLS Port POP Diversity - 8 Mbps	19650
	Bidder's Product Description: MPLS Port POP Diversity - 8 Mbps		
46	POP Diversity - 9 Mbps	MPLS Port POP Diversity - 9 Mbps	19651
	Bidder's Product Description: MPLS Port POP Diversity - 9 Mbps		
47	POP Diversity - 9.264 Mbps	MPLS Port POP Diversity - 9.264 Mbps	18119
	Bidder's Product Description: MPLS Port POP Diversity - 9.264 Mbps		
48	POP Diversity - 10 Mbps	MPLS Port POP Diversity - 10 Mbps	18120

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Port POP Diversity - 10 Mbps		
49	POP Diversity - 10.808 Mbps	MPLS Port POP Diversity - 10.808 Mbps	18122
	Bidder's Product Description: MPLS Port POP Diversity - 10.808 Mbps		
50	POP Diversity - 12.352 Mbps	MPLS Port POP Diversity - 12.352 Mbps	18124
	Bidder's Product Description: MPLS Port POP Diversity - 12.352 Mbps		
51	POP Diversity - 15 Mbps	MPLS Port POP Diversity - 15 Mbps	18126
	Bidder's Product Description: MPLS Port POP Diversity - 15 Mbps		
52	POP Diversity - 20 Mbps	MPLS Port POP Diversity - 20 Mbps	18128
	Bidder's Product Description: MPLS Port POP Diversity - 20 Mbps		
53	POP Diversity - 25 Mbps	MPLS Port POP Diversity - 25 Mbps	18129
	Bidder's Product Description: MPLS Port POP Diversity - 25 Mbps		
54	POP Diversity - 30 Mbps	MPLS Port POP Diversity - 30 Mbps	18130
	Bidder's Product Description: MPLS Port POP Diversity - 30 Mbps		
55	POP Diversity - 40 Mbps	MPLS Port POP Diversity - 40 Mbps	19652
	Bidder's Product Description: MPLS Port POP Diversity - 40 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
56	POP Diversity - 45 Mbps	MPLS Port POP Diversity - 45 Mbps	18134
	Bidder's Product Description: MPLS Port POP Diversity - 45 Mbps		
57	POP Diversity - 50 Mbps	MPLS Port POP Diversity - 50 Mbps	18131
	Bidder's Product Description: MPLS Port POP Diversity - 50 Mbps		
58	POP Diversity - 60 Mbps	MPLS Port POP Diversity - 60 Mbps	19653
	Bidder's Product Description: MPLS Port POP Diversity - 60 Mbps		
59	POP Diversity - 70 Mbps	MPLS Port POP Diversity - 70 Mbps	19654
	Bidder's Product Description: MPLS Port POP Diversity - 70 Mbps		
60	POP Diversity - 75 Mbps	MPLS Port POP Diversity - 75 Mbps	18132
	Bidder's Product Description: MPLS Port POP Diversity - 75 Mbps		
61	POP Diversity - 80 Mbps	MPLS Port POP Diversity - 80 Mbps	19655
	Bidder's Product Description: MPLS Port POP Diversity - 80 Mbps		
62	POP Diversity - 90 Mbps	MPLS Port POP Diversity - 90 Mbps	19656
	Bidder's Product Description: MPLS Port POP Diversity - 90 Mbps		
63	POP Diversity -100 Mbps	MPLS Port POP Diversity - 100 Mbps	18135

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Port POP Diversity - 100 Mbps		
64	POP Diversity -150 Mbps	MPLS Port POP Diversity - 150 Mbps	19657
	Bidder's Product Description: MPLS Port POP Diversity - 150 Mbps		
65	POP Diversity -155 Mbps	MPLS Port POP Diversity - 155 Mbps	18136
	Bidder's Product Description: MPLS Port POP Diversity - 155 Mbps		
66	POP Diversity -200 Mbps	MPLS Port POP Diversity - 200 Mbps	18137
	Bidder's Product Description: MPLS Port POP Diversity - 200 Mbps		
67	POP Diversity -250 Mbps	MPLS Port POP Diversity - 250 Mbps	20412
	Bidder's Product Description: MPLS Port POP Diversity - 250 Mbps		
68	POP Diversity -300 Mbps	MPLS Port POP Diversity - 300 Mbps	18138
	Bidder's Product Description: MPLS Port POP Diversity - 300 Mbps		
69	POP Diversity -400 Mbps	MPLS Port POP Diversity - 400 Mbps	18139
	Bidder's Product Description: MPLS Port POP Diversity - 400 Mbps		
70	POP Diversity -450 Mbps	MPLS Port POP Diversity - 450 Mbps	20403
	Bidder's Product Description: MPLS Port POP Diversity - 450 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
71	POP Diversity -500 Mbps	MPLS Port POP Diversity - 500 Mbps	18140
	Bidder's Product Description: MPLS Port POP Diversity - 500 Mbps		
72	POP Diversity -600 Mbps	MPLS Port POP Diversity - 600 Mbps	18141
	Bidder's Product Description: MPLS Port POP Diversity - 600 Mbps		
73	POP Diversity -622 Mbps	MPLS Port POP Diversity - 622 Mbps	18142
	Bidder's Product Description: MPLS Port POP Diversity - 622 Mbps		
74	POP Diversity -700 Mbps	MPLS Port POP Diversity - 700 Mbps	18143
	Bidder's Product Description: MPLS Port POP Diversity - 700 Mbps		
75	POP Diversity -800 Mbps	MPLS Port POP Diversity - 800 Mbps	18144
	Bidder's Product Description: MPLS Port POP Diversity - 800 Mbps		
76	POP Diversity -900 Mbps	MPLS Port POP Diversity - 900 Mbps	18145
	Bidder's Product Description: MPLS Port POP Diversity - 900 Mbps		
77	POP Diversity - 1 Gbps	MPLS Port POP Diversity - 1 Gbps	18146
	Bidder's Product Description: MPLS Port POP Diversity - 1 Gbps		
	MPLS Port SDO	MPLS Port Switch Diversity Option	Multiple – Feature IDs listed below

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T will provision each group of MPLS Ports to a different group of AT&T switches or routers at the same AT&T POP. A MPLS Port may not be included in more than one Switch Diversity group.		
78	MPLS Port SDO - 128 Kbps	MPLS Port Switch Diversity Option - 128 Kbps	18034
	Bidder's Product Description: MPLS Port Switch Diversity Option - 128 Kbps		
79	MPLS Port SDO - 256 Kbps	MPLS Port Switch Diversity Option - 256 Kbps	18036
	Bidder's Product Description: MPLS Port Switch Diversity Option - 256 Kbps		
80	MPLS Port SDO - 384 Kbps	MPLS Port Switch Diversity Option - 384 Kbps	18038
	Bidder's Product Description: MPLS Port Switch Diversity Option - 384 Kbps		
81	MPLS Port SDO - 512 Kbps	MPLS Port Switch Diversity Option - 512 Kbps	18040
	Bidder's Product Description: MPLS Port Switch Diversity Option - 512 Kbps		
82	MPLS Port SDO - 768 Kbps	MPLS Port Switch Diversity Option - 768 Kbps	18044
	Bidder's Product Description: MPLS Port Switch Diversity Option - 768 Kbps		
83	MPLS Port SDO - 1024 Kbps	MPLS Port Switch Diversity Option - 1024 Kbps	18045
	Bidder's Product Description: MPLS Port Switch Diversity Option - 1024 Kbps		
84	MPLS Port SDO - 1.544 Mbps	MPLS Port Switch Diversity Option - 1.544 Mbps	18046
	Bidder's Product Description: MPLS Port Switch Diversity Option - 1.544 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
85	MPLS Port SDO - 3.088 Mbps	MPLS Port Switch Diversity Option - 3.088 Mbps	18050
	Bidder's Product Description: MPLS Port Switch Diversity Option - 3.088 Mbps		
86	MPLS Port SDO - 4.632 Mbps	MPLS Port Switch Diversity Option - 4.632 Mbps	18052
	Bidder's Product Description: MPLS Port Switch Diversity Option - 4.632 Mbps		
87	MPLS Port SDO -5 Mbps	MPLS Port Switch Diversity Option - 5 Mbps	18055
	Bidder's Product Description: MPLS Port Switch Diversity Option - 5 Mbps		
88	MPLS Port SDO - 6.176 Mbps	MPLS Port Switch Diversity Option - 6.176 Mbps	18054
	Bidder's Product Description: MPLS Port Switch Diversity Option - 6.176 Mbps		
89	MPLS Port SDO - 7.720 Mbps	MPLS Port Switch Diversity Option - 7.720 Mbps	18056
	Bidder's Product Description: MPLS Port Switch Diversity Option - 7.720 Mbps		
90	MPLS Port SDO - 9.264 Mbps	MPLS Port Switch Diversity Option - 9.264 Mbps	18058
	Bidder's Product Description: MPLS Port Switch Diversity Option - 9.264 Mbps		
91	MPLS Port SDO - 10 Mbps	MPLS Port Switch Diversity Option - 10 Mbps	18059
	Bidder's Product Description: MPLS Port Switch Diversity Option - 10 Mbps		
92	MPLS Port SDO - 10.808 Mbps	MPLS Port Switch Diversity Option - 10.808 Mbps	18061

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Port Switch Diversity Option - 10.808 Mbps		
93	MPLS Port SDO - 12.352 Mbps	MPLS Port Switch Diversity Option - 12.352 Mbps	18063
	Bidder's Product Description: MPLS Port Switch Diversity Option - 12.352 Mbps		
94	MPLS Port SDO - 15 Mbps	MPLS Port Switch Diversity Option - 15 Mbps	18065
	Bidder's Product Description: MPLS Port Switch Diversity Option - 15 Mbps		
95	MPLS Port SDO - 20 Mbps	MPLS Port Switch Diversity Option - 20 Mbps	18067
	Bidder's Product Description: MPLS Port Switch Diversity Option - 20 Mbps		
96	MPLS Port SDO - 25 Mbps	MPLS Port Switch Diversity Option - 25 Mbps	18068
	Bidder's Product Description: MPLS Port Switch Diversity Option - 25 Mbps		
97	MPLS Port SDO - 30 Mbps	MPLS Port Switch Diversity Option - 30 Mbps	18069
	Bidder's Product Description: MPLS Port Switch Diversity Option - 30 Mbps		
98	MPLS Port SDO - 45 Mbps	MPLS Port Switch Diversity Option - 45 Mbps	18073
	Bidder's Product Description: MPLS Port Switch Diversity Option - 45 Mbps		
99	MPLS Port SDO - 50 Mbps	MPLS Port Switch Diversity Option - 50 Mbps	18070
	Bidder's Product Description: MPLS Port Switch Diversity Option - 50 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
100	MPLS Port SDO - 75 Mbps	MPLS Port Switch Diversity Option - 75 Mbps	18071
	Bidder's Product Description: MPLS Port Switch Diversity Option - 75 Mbps		
101	MPLS Port SDO - 100 Mbps	MPLS Port Switch Diversity Option - 100 Mbps	18074
	Bidder's Product Description: MPLS Port Switch Diversity Option - 100 Mbps		
102	MPLS Port SDO - 155 Mbps	MPLS Port Switch Diversity Option - 155 Mbps	18075
	Bidder's Product Description: MPLS Port Switch Diversity Option - 155 Mbps		
103	MPLS Port SDO - 200 Mbps	MPLS Port Switch Diversity Option - 200 Mbps	18076
	Bidder's Product Description: MPLS Port Switch Diversity Option - 200 Mbps		
104	MPLS Port SDO - 300 Mbps	MPLS Port Switch Diversity Option - 300 Mbps	18077
	Bidder's Product Description: MPLS Port Switch Diversity Option - 300 Mbps		
105	MPLS Port SDO - 400 Mbps	MPLS Port Switch Diversity Option - 400 Mbps	18078
	Bidder's Product Description: MPLS Port Switch Diversity Option - 400 Mbps		
106	MPLS Port SDO - 622 Mbps	MPLS Port Switch Diversity Option - 622 Mbps	18081
	Bidder's Product Description: MPLS Port Switch Diversity Option - 622 Mbps		
	CoS Multimedia High Svc	Class of Service (CoS) Package Multimedia High Service	Multiple – Feature IDs listed below

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) package for heavy multimedia traffic; Seven profiles, 60-90% real time. Supports CoS 1, 2V, 2, 3, 4, 5, and No CoS.		
107	CoS Multimedia High Svc - 128 Kbps	Class of Service (CoS) Package Multimedia High Service - 128 Kbps	18195
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 128 Kbps		
108	CoS Multimedia High Svc - 256 Kbps	Class of Service (CoS) Package Multimedia High Service - 256 Kbps	18197
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 256 Kbps		
109	CoS Multimedia High Svc - 384 Kbps	Class of Service (CoS) Package Multimedia High Service - 384 Kbps	18199
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 384 Kbps		
110	CoS Multimedia High Svc - 512 Kbps	Class of Service (CoS) Package Multimedia High Service - 512 Kbps	18201
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 512 Kbps		
111	CoS Multimedia High Svc - 768 Kbps	Class of Service (CoS) Package Multimedia High Service - 768 Kbps	18205
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 768 Kbps		
112	CoS Multimedia High Svc - 1 Mbps	Class of Service (CoS) Package Multimedia High Service - 1 Mbps	19672
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 1 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
113	CoS Multimedia High Svc - 1024 Kbps	Class of Service (CoS) Package Multimedia High Service - 1024 Kbps	18206
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 1024 Kbps		
114	CoS Multimedia High Svc - 1.544 Mbps	Class of Service (CoS) Package Multimedia High Service - 1.544 Mbps	18207
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 1.544 Mbps		
115	CoS Multimedia High Svc - 2 Mbps	Class of Service (CoS) Package Multimedia High Service - 2 Mbps	19673
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 2 Mbps		
116	CoS Multimedia High Svc - 3 Mbps	Class of Service (CoS) Package Multimedia High Service - 3 Mbps	19674
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 3 Mbps		
117	CoS Multimedia High Svc - 3.088 Mbps	Class of Service (CoS) Package Multimedia High Service - 3.088 Mbps	18211
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 3.088 Mbps		
118	CoS Multimedia High Svc - 4 Mbps	Class of Service (CoS) Package Multimedia High Service - 4 Mbps	19675
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 4 Mbps		
119	CoS Multimedia High Svc -4.632 Mbps	Class of Service (CoS) Package Multimedia High Service - 4.632 Mbps	18213
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 4.632 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
120	CoS Multimedia High Svc - 5 Mbps	Class of Service (CoS) Package Multimedia High Service - 5 Mbps	18216
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 5 Mbps		
121	CoS Multimedia High Svc - 6 Mbps	Class of Service (CoS) Package Multimedia High Service - 6 Mbps	19676
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 6 Mbps		
122	CoS Multimedia High Svc - 6.176 Mbps	Class of Service (CoS) Package Multimedia High Service - 6.176 Mbps	18215
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 6.176 Mbps		
123	CoS Multimedia High Svc - 7 Mbps	Class of Service (CoS) Package Multimedia High Service - 7 Mbps	19677
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 7 Mbps		
124	CoS Multimedia High Svc - 7.720 Mbps	Class of Service (CoS) Package Multimedia High Service - 7.720 Mbps	18217
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 7.720 Mbps		
125	CoS Multimedia High Svc - 8 Mbps	Class of Service (CoS) Package Multimedia High Service - 8 Mbps	19678
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 8 Mbps		
126	CoS Multimedia High Svc - 9 Mbps	Class of Service (CoS) Package Multimedia High Service - 9 Mbps	19679
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 9 Mbps		
127	CoS Multimedia High Svc - 9.246 Mbps	Class of Service (CoS) Package Multimedia High Service - 9.246 Mbps	18219

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 9.246 Mbps		
128	CoS Multimedia High Svc - 10 Mbps	Class of Service (CoS) Package Multimedia High Service - 10 Mbps	18220
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 10 Mbps		
129	CoS Multimedia High Svc - 10.808 Mbps	Class of Service (CoS) Package Multimedia High Service - 10.808 Mbps	18222
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 10.808 Mbps		
130	CoS Multimedia High Svc - 12.352 Mbps	Class of Service (CoS) Package Multimedia High Service - 12.352 Mbps	18224
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 12.352 Mbps		
131	CoS Multimedia High Svc - 15 Mbps	Class of Service (CoS) Package Multimedia High Service - 15 Mbps	18226
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 15 Mbps		
132	CoS Multimedia High Svc - 20 Mbps	Class of Service (CoS) Package Multimedia High Service - 20 Mbps	18228
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 20 Mbps		
133	CoS Multimedia High Svc - 25 Mbps	Class of Service (CoS) Package Multimedia High Service - 25 Mbps	18229
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 25 Mbps		
134	CoS Multimedia High Svc - 30 Mbps	Class of Service (CoS) Package Multimedia High Service - 30 Mbps	18230
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 30 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
135	CoS Multimedia High Svc - 40 Mbps	Class of Service (CoS) Package Multimedia High Service - 40 Mbps	19680
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 40 Mbps		
136	CoS Multimedia High Svc - 45 Mbps	Class of Service (CoS) Package Multimedia High Service - 45 Mbps	18234
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 45 Mbps		
137	CoS Multimedia High Svc - 50 Mbps	Class of Service (CoS) Package Multimedia High Service - 50 Mbps	18231
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 50 Mbps		
138	CoS Multimedia High Svc - 60 Mbps	Class of Service (CoS) Package Multimedia High Service - 60 Mbps	19681
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 60 Mbps		
139	CoS Multimedia High Svc - 70 Mbps	Class of Service (CoS) Package Multimedia High Service - 70 Mbps	19682
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 70 Mbps		
140	CoS Multimedia High Svc - 75 Mbps	Class of Service (CoS) Package Multimedia High Service - 75 Mbps	18232
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 75 Mbps		
141	CoS Multimedia High Svc - 80 Mbps	Class of Service (CoS) Package Multimedia High Service - 80 Mbps	19683
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 80 Mbps		
142	CoS Multimedia High Svc - 90 Mbps	Class of Service (CoS) Package Multimedia High Service - 90 Mbps	19684

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 90 Mbps		
143	CoS Multimedia High Svc - 100 Mbps	Class of Service (CoS) Package Multimedia High Service - 100 Mbps	18235
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 100 Mbps		
144	CoS Multimedia High Svc - 150 Mbps	Class of Service (CoS) Package Multimedia High Service - 150 Mbps	19685
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 150 Mbps		
145	CoS Multimedia High Svc - 155 Mbps	Class of Service (CoS) Package Multimedia High Service - 155 Mbps	18236
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 155 Mbps		
146	CoS Multimedia High Svc - 200 Mbps	Class of Service (CoS) Package Multimedia High Service - 200 Mbps	18237
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 200 Mbps		
147	CoS Multimedia High Svc - 250 Mbps	Class of Service (CoS) Package Multimedia High Service - 250 Mbps	20414
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 250 Mbps		
148	CoS Multimedia High Svc - 300 Mbps	Class of Service (CoS) Package Multimedia High Service - 300 Mbps	18238
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 300 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
149	CoS Multimedia High Svc - 400 Mbps	Class of Service (CoS) Package Multimedia High Service - 400 Mbps	18239
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 400 Mbps		
150	CoS Multimedia High Svc - 450 Mbps	Class of Service (CoS) Package Multimedia High Service - 450 Mbps	20405
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 450 Mbps		
151	CoS Multimedia High Svc - 500 Mbps	Class of Service (CoS) Package Multimedia High Service - 500 Mbps	18240
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 500 Mbps		
152	CoS Multimedia High Svc - 600 Mbps	Class of Service (CoS) Package Multimedia High Service - 600 Mbps	18241
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 600 Mbps		
153	CoS Multimedia High Svc - 622 Mbps	Class of Service (CoS) Package Multimedia High Service - 622 Mbps	18242
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 622 Mbps		
154	CoS Multimedia High Svc - 700 Mbps	Class of Service (CoS) Package Multimedia High Service - 700 Mbps	18243
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 700 Mbps		
155	CoS Multimedia High Svc - 800 Mbps	Class of Service (CoS) Package Multimedia High Service - 800 Mbps	18244

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 800 Mbps		
156	CoS Multimedia High Svc - 900 Mbps	Class of Service (CoS) Package Multimedia High Service - 900 Mbps	18245
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 900 Mbps		
157	CoS Multimedia High Svc - 1 Gbps	Class of Service (CoS) Package Multimedia High Service - 1 Gbps	18246
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 1 Gbps		
158	CoS Multimedia High Svc - 2 Gbps	Class of Service (CoS) Package Multimedia High Service - 2 Gbps	21977
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 2 Gbps		
159	CoS Multimedia High Svc - 2.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 2.5 Gbps	21978
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 2.5 Gbps		
160	CoS Multimedia High Svc - 3 Gbps	Class of Service (CoS) Package Multimedia High Service - 3 Gbps	21979
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 3 Gbps		
161	CoS Multimedia High Svc - 3.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 3.5 Gbps	21980
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 3.5 Gbps		
162	CoS Multimedia High Svc - 4 Gbps	Class of Service (CoS) Package Multimedia High Service - 4 Gbps	21981

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 4 Gbps		
163	CoS Multimedia High Svc - 4.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 4.5 Gbps	21982
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 4.5 Gbps		
164	CoS Multimedia High Svc - 5 Gbps	Class of Service (CoS) Package Multimedia High Service - 5 Gbps	21983
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 5 Gbps		
165	CoS Multimedia High Svc - 5.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 5.5 Gbps	21984
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 5.5 Gbps		
166	CoS Multimedia High Svc - 6 Gbps	Class of Service (CoS) Package Multimedia High Service - 6 Gbps	21985
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 6 Gbps		
167	CoS Multimedia High Svc - 6.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 6.5 Gbps	21986
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 6.5 Gbps		
168	CoS Multimedia High Svc - 7 Gbps	Class of Service (CoS) Package Multimedia High Service - 7 Gbps	21987
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 7 Gbps		
169	CoS Multimedia High Svc - 7.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 7.5 Gbps	21988

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 7.5 Gbps		
170	CoS Multimedia High Svc - 8 Gbps	Class of Service (CoS) Package Multimedia High Service - 8 Gbps	21989
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 8 Gbps		
171	CoS Multimedia High Svc - 8.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 8.5 Gbps	21990
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 8.5 Gbps		
172	CoS Multimedia High Svc - 9 Gbps	Class of Service (CoS) Package Multimedia High Service - 9 Gbps	21991
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 9 Gbps		
173	CoS Multimedia High Svc - 9.5 Gbps	Class of Service (CoS) Package Multimedia High Service - 9.5 Gbps	21992
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 9.5 Gbps		
174	CoS Multimedia High Svc - 10 Gbps	Class of Service (CoS) Package Multimedia High Service - 10 Gbps	21993
	Bidder's Product Description: Class of Service (CoS) Package Multimedia High Service - 10 Gbps		
	CoS Multimedia Standard Svc	Class of Service (CoS) Package Multimedia Standard Service	Multiple – Feature IDs listed below
	Bidder's Product Description: Class of Service (CoS) package for moderate multimedia traffic; Ten profiles, 10-50% real time. Supports CoS 1, 2V, 2, 3, 4, 5, and No CoS.		
175	CoS Multimedia Standard Svc -128 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 128 Kbps	18253

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 128 Kbps		
176	CoS Multimedia Standard Svc - 256 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 256 Kbps	18255
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 256 Kbps		
177	CoS Multimedia Standard Svc -384 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 384 Kbps	18257
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 384 Kbps		
178	CoS Multimedia Standard Svc -512 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 512 Kbps	18259
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 512 Kbps		
179	CoS Multimedia Standard Svc -768 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 768 Kbps	18263
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 768 Kbps		
180	CoS Multimedia Standard Svc - 1 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 1 Mbps	19686
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 1 Mbps		
181	CoS Multimedia Standard Svc - 1024 Kbps	Class of Service (CoS) Package Multimedia Standard Service - 1024 Kbps	18264
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 1024 Kbps		

	Feature Name	Feature Description	Bidder's Product Identifier
182	CoS Multimedia Standard Svc - 1.544 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 1.544 Mbps	18265
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 1.544 Mbps		
183	CoS Multimedia Standard Svc - 2 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 2 Mbps	19687
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 2 Mbps		
184	CoS Multimedia Standard Svc - 3 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 3 Mbps	19688
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 3 Mbps		
185	CoS Multimedia Standard Svc - 3.088 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 3.088 Mbps	18269
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 3.088 Mbps		
186	CoS Multimedia Standard Svc - 4 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 4 Mbps	19689
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 4 Mbps		
187	CoS Multimedia Standard Svc - 4.632 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 4.632 Mbps	18271
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 4.632 Mbps		
188	CoS Multimedia Standard Svc - 5 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 5 Mbps	18274

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 5 Mbps		
189	CoS Multimedia Standard Svc - 6 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 6 Mbps	19690
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 6 Mbps		
190	CoS Multimedia Standard Svc - 6.176 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 6.176 Mbps	18273
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 6.176 Mbps		
191	CoS Multimedia Standard Svc - 7 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 7 Mbps	19691
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 7 Mbps		
192	CoS Multimedia Standard Svc - 7.720 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 7.720 Mbps	18275
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 7.720 Mbps		
193	CoS Multimedia Standard Svc - 8 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 8 Mbps	19692
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 8 Mbps		
194	CoS Multimedia Standard Svc - 9 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 9 Mbps	19693
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 9 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
195	CoS Multimedia Standard Svc - 9.246 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 9.246 Mbps	18277
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 9.246 Mbps		
196	CoS Multimedia Standard Svc - 10 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 10 Mbps	18278
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 10 Mbps		
197	CoS Multimedia Standard Svc - 10.808 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 10.808 Mbps	18280
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 10.808 Mbps		
198	CoS Multimedia Standard Svc - 12.352 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 12.352 Mbps	18282
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 12.352 Mbps		
199	CoS Multimedia Standard Svc - 15 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 15 Mbps	18284
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 15 Mbps		
200	CoS Multimedia Standard Svc - 20 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 20 Mbps	18286
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 20 Mbps		
201	CoS Multimedia Standard Svc - 25 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 25 Mbps	18287

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 25 Mbps		
202	CoS Multimedia Standard Svc - 30 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 30 Mbps	18288
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 30 Mbps		
203	CoS Multimedia Standard Svc - 40 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 40 Mbps	19694
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 40 Mbps		
204	CoS Multimedia Standard Svc - 45 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 45 Mbps	18292
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 45 Mbps		
205	CoS Multimedia Standard Svc - 50 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 50 Mbps	18289
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 50 Mbps		
206	CoS Multimedia Standard Svc - 60 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 60 Mbps	19695
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 60 Mbps		
207	CoS Multimedia Standard Svc - 70 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 70 Mbps	19696
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 70 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
208	CoS Multimedia Standard Svc - 75 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 75 Mbps	18290
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 75 Mbps		
209	CoS Multimedia Standard Svc - 80 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 80 Mbps	19697
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 80 Mbps		
210	CoS Multimedia Standard Svc - 90 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 90 Mbps	19698
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 90 Mbps		
211	CoS Multimedia Standard Svc -100 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 100 Mbps	18293
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 100 Mbps		
212	CoS Multimedia Standard Svc -150 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 150 Mbps	19699
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 150 Mbps		
213	CoS Multimedia Standard Svc -155 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 155 Mbps	18294
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 155 Mbps		
214	CoS Multimedia Standard Svc -200 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 200 Mbps	18295

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 200 Mbps		
215	CoS Multimedia Standard Svc -250 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 250 Mbps	20415
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 250 Mbps		
216	CoS Multimedia Standard Svc -300 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 300 Mbps	18296
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 300 Mbps		
217	CoS Multimedia Standard Svc -400 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 400 Mbps	18297
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 400 Mbps		
218	CoS Multimedia Standard Svc -450 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 450 Mbps	20406
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 450 Mbps		
219	CoS Multimedia Standard Svc -500 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 500 Mbps	18298
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 500 Mbps		
220	CoS Multimedia Standard Svc -600 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 600 Mbps	18299
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 600 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
221	CoS Multimedia Standard Svc -622 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 622 Mbps	18300
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 622 Mbps		
222	CoS Multimedia Standard Svc -700 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 700 Mbps	18301
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 700 Mbps		
223	CoS Multimedia Standard Svc -800 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 800 Mbps	18302
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 800 Mbps		
224	CoS Multimedia Standard Svc -900 Mbps	Class of Service (CoS) Package Multimedia Standard Service - 900 Mbps	18303
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 900 Mbps		
225	CoS Multimedia Standard Svc - 1 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 1 Gbps	18304
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 1 Gbps		
226	CoS Multimedia Standard Svc - 2 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 2 Gbps	21994
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 2 Gbps		
227	CoS Multimedia Standard Svc - 2.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 2.5 Gbps	21995

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 2.5 Gbps		
228	CoS Multimedia Standard Svc - 3 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 3 Gbps	21996
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 3 Gbps		
229	CoS Multimedia Standard Svc - 3.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 3.5 Gbps	21997
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 3.5 Gbps		
230	CoS Multimedia Standard Svc - 4 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 4 Gbps	21998
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 4 Gbps		
231	CoS Multimedia Standard Svc - 4.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 4.5 Gbps	21999
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 4.5 Gbps		
232	CoS Multimedia Standard Svc - 5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 5 Gbps	22000
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 5 Gbps		
233	CoS Multimedia Standard Svc - 5.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 5.5 Gbps	22001
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 5.5 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
234	CoS Multimedia Standard Svc - 6 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 6 Gbps	22002
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 6 Gbps		
235	CoS Multimedia Standard Svc - 6.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 6.5 Gbps	22003
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 6.5 Gbps		
236	CoS Multimedia Standard Svc - 7 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 7 Gbps	22004
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 7 Gbps		
237	CoS Multimedia Standard Svc - 7.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 7.5 Gbps	22005
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 7.5 Gbps		
238	CoS Multimedia Standard Svc - 8 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 8 Gbps	22006
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 8 Gbps		
239	CoS Multimedia Standard Svc - 8.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 8.5 Gbps	22007
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 8.5 Gbps		
240	CoS Multimedia Standard Svc - 9 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 9 Gbps	22008

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 9 Gbps		
241	CoS Multimedia Standard Svc - 9.5 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 9.5 Gbps	22009
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 9.5 Gbps		
242	CoS Multimedia Standard Svc - 10 Gbps	Class of Service (CoS) Package Multimedia Standard Service - 10 Gbps	22010
	Bidder's Product Description: Class of Service (CoS) Package Multimedia Standard Service - 10 Gbps		
	CoS Critical Data Svc	Class of Service (CoS) Package Critical Data Service	Multiple – Feature IDs listed below
	Bidder's Product Description: Class of Service (CoS) package for high-priority business data traffic; Four profiles, 0-30% best effort. Supports CoS 2, 3, 4, 5, and No CoS.		
243	CoS Critical Data Svc - 128 Kbps	Class of Service (CoS) Package Critical Data Service - 128 Kbps	18311
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 128 Kbps		
244	CoS Critical Data Svc - 256 Kbps	Class of Service (CoS) Package Critical Data Service - 256 Kbps	18313
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 256 Kbps		
245	CoS Critical Data Svc - 384 Kbps	Class of Service (CoS) Package Critical Data Service - 384 Kbps	18315
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 384 Kbps		
246	CoS Critical Data Svc - 512 Kbps	Class of Service (CoS) Package Critical Data Service - 512 Kbps	18317

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 512 Kbps		
247	CoS Critical Data Svc - 768 Kbps	Class of Service (CoS) Package Critical Data Service - 768 Kbps	18321
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 768 Kbps		
248	CoS Critical Data Svc - 1 Mbps	Class of Service (CoS) Package Critical Data Service - 1 Mbps	19700
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 1 Mbps		
249	CoS Critical Data Svc - 1024 Kbps	Class of Service (CoS) Package Critical Data Service - 1024 Kbps	18322
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 1024 Kbps		
250	CoS Critical Data Svc - 1.544 Mbps	Class of Service (CoS) Package Critical Data Service - 1.544 Mbps	18323
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 1.544 Mbps		
251	CoS Critical Data Svc - 2 Mbps	Class of Service (CoS) Package Critical Data Service - 2 Mbps	19701
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 2 Mbps		
252	CoS Critical Data Svc - 3 Mbps	Class of Service (CoS) Package Critical Data Service - 3 Mbps	19702
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 3 Mbps		
253	CoS Critical Data Svc - 3.088 Mbps	Class of Service (CoS) Package Critical Data Service - 3.088 Mbps	18327
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 3.088 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
254	CoS Critical Data Svc - 4 Mbps	Class of Service (CoS) Package Critical Data Service - 4 Mbps	19703
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 4 Mbps		
255	CoS Critical Data Svc - 4.632 Mbps	Class of Service (CoS) Package Critical Data Service - 4.632 Mbps	18329
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 4.632 Mbps		
256	CoS Critical Data Svc - 5 Mbps	Class of Service (CoS) Package Critical Data Service - 5 Mbps	18332
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 5 Mbps		
257	CoS Critical Data Svc - 6 Mbps	Class of Service (CoS) Package Critical Data Service - 6 Mbps	19704
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 6 Mbps		
258	CoS Critical Data Svc - 6.176 Mbps	Class of Service (CoS) Package Critical Data Service - 6.176 Mbps	18331
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 6.176 Mbps		
259	CoS Critical Data Svc - 7 Mbps	Class of Service (CoS) Package Critical Data Service - 7 Mbps	19705
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 7 Mbps		
260	CoS Critical Data Svc - 7.720 Mbps	Class of Service (CoS) Package Critical Data Service - 7.720 Mbps	18333
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 7.720 Mbps		
261	CoS Critical Data Svc - 8 Mbps	Class of Service (CoS) Package Critical Data Service - 8 Mbps	19706

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 8 Mbps		
262	CoS Critical Data Svc - 9 Mbps	Class of Service (CoS) Package Critical Data Service - 9 Mbps	19707
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 9 Mbps		
263	CoS Critical Data Svc - 9.246 Mbps	Class of Service (CoS) Package Critical Data Service - 9.246 Mbps	18335
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 9.246 Mbps		
264	CoS Critical Data Svc - 10 Mbps	Class of Service (CoS) Package Critical Data Service - 10 Mbps	18336
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 10 Mbps		
265	CoS Critical Data Svc - 10.808 Mbps	Class of Service (CoS) Package Critical Data Service - 10.808 Mbps	18338
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 10.808 Mbps		
266	CoS Critical Data Svc - 12.352 Mbps	Class of Service (CoS) Package Critical Data Service - 12.352 Mbps	18340
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 12.352 Mbps		
267	CoS Critical Data Svc - 15 Mbps	Class of Service (CoS) Package Critical Data Service - 15 Mbps	18342
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 15 Mbps		
268	CoS Critical Data Svc - 20 Mbps	Class of Service (CoS) Package Critical Data Service - 20 Mbps	18344
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 20 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
269	CoS Critical Data Svc - 25 Mbps	Class of Service (CoS) Package Critical Data Service - 25 Mbps	18345
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 25 Mbps		
270	CoS Critical Data Svc - 30 Mbps	Class of Service (CoS) Package Critical Data Service - 30 Mbps	18346
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 30 Mbps		
271	CoS Critical Data Svc - 40 Mbps	Class of Service (CoS) Package Critical Data Service - 40 Mbps	19708
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 40 Mbps		
272	CoS Critical Data Svc - 45 Mbps	Class of Service (CoS) Package Critical Data Service - 45 Mbps	18350
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 45 Mbps		
273	CoS Critical Data Svc - 50 Mbps	Class of Service (CoS) Package Critical Data Service - 50 Mbps	18347
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 50 Mbps		
274	CoS Critical Data Svc - 60 Mbps	Class of Service (CoS) Package Critical Data Service - 60 Mbps	19709
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 60 Mbps		
275	CoS Critical Data Svc - 70 Mbps	Class of Service (CoS) Package Critical Data Service - 70 Mbps	19710
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 70 Mbps		
276	CoS Critical Data Svc - 75 Mbps	Class of Service (CoS) Package Critical Data Service - 75 Mbps	18348

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 75 Mbps		
277	CoS Critical Data Svc - 80 Mbps	Class of Service (CoS) Package Critical Data Service - 80 Mbps	19711
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 80 Mbps		
278	CoS Critical Data Svc - 90 Mbps	Class of Service (CoS) Package Critical Data Service - 90 Mbps	19712
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 90 Mbps		
279	CoS Critical Data Svc - 100 Mbps	Class of Service (CoS) Package Critical Data Service - 100 Mbps	18351
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 100 Mbps		
280	CoS Critical Data Svc - 150 Mbps	Class of Service (CoS) Package Critical Data Service - 150 Mbps	19713
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 150 Mbps		
281	CoS Critical Data Svc - 155 Mbps	Class of Service (CoS) Package Critical Data Service - 155 Mbps	18352
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 155 Mbps		
282	CoS Critical Data Svc - 200 Mbps	Class of Service (CoS) Package Critical Data Service - 200 Mbps	18353
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 200 Mbps		
283	CoS Critical Data Svc - 250 Mbps	Class of Service (CoS) Package Critical Data Service - 250 Mbps	20416
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 250 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
284	CoS Critical Data Svc - 300 Mbps	Class of Service (CoS) Package Critical Data Service - 300 Mbps	18354
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 300 Mbps		
285	CoS Critical Data Svc - 400 Mbps	Class of Service (CoS) Package Critical Data Service - 400 Mbps	18355
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 400 Mbps		
286	CoS Critical Data Svc - 450 Mbps	Class of Service (CoS) Package Critical Data Service - 450 Mbps	20407
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 450 Mbps		
287	CoS Critical Data Svc - 500 Mbps	Class of Service (CoS) Package Critical Data Service - 500 Mbps	18356
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 500 Mbps		
288	CoS Critical Data Svc - 600 Mbps	Class of Service (CoS) Package Critical Data Service - 600 Mbps	18357
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 600 Mbps		
289	CoS Critical Data Svc - 622 Mbps	Class of Service (CoS) Package Critical Data Service - 622 Mbps	18358
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 622 Mbps		
290	CoS Critical Data Svc - 700 Mbps	Class of Service (CoS) Package Critical Data Service - 700 Mbps	18359
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 700 Mbps		
291	CoS Critical Data Svc - 800 Mbps	Class of Service (CoS) Package Critical Data Service - 800 Mbps	18360

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 800 Mbps		
292	CoS Critical Data Svc - 900 Mbps	Class of Service (CoS) Package Critical Data Service - 900 Mbps	18361
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 900 Mbps		
293	CoS Critical Data Svc - 1 Gbps	Class of Service (CoS) Package Critical Data Service - 1 Gbps	18362
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 1 Gbps		
294	CoS Critical Data Svc - 2 Gbps	Class of Service (CoS) Package Critical Data Service - 2 Gbps	22011
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 2 Gbps		
295	CoS Critical Data Svc - 2.5 Gbps	Class of Service (CoS) Package Critical Data Service - 2.5 Gbps	22012
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 2.5 Gbps		
296	CoS Critical Data Svc - 3 Gbps	Class of Service (CoS) Package Critical Data Service - 3 Gbps	22013
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 3 Gbps		
297	CoS Critical Data Svc - 3.5 Gbps	Class of Service (CoS) Package Critical Data Service - 3.5 Gbps	22014
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 3.5 Gbps		
298	CoS Critical Data Svc - 4 Gbps	Class of Service (CoS) Package Critical Data Service - 4 Gbps	22015
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 4 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
299	CoS Critical Data Svc - 4.5 Gbps	Class of Service (CoS) Package Critical Data Service - 4.5 Gbps	22016
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 4.5 Gbps		
300	CoS Critical Data Svc - 5 Gbps	Class of Service (CoS) Package Critical Data Service - 5 Gbps	22017
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 5 Gbps		
301	CoS Critical Data Svc - 5.5 Gbps	Class of Service (CoS) Package Critical Data Service - 5.5 Gbps	22018
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 5.5 Gbps		
302	CoS Critical Data Svc - 6 Gbps	Class of Service (CoS) Package Critical Data Service - 6 Gbps	22019
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 6 Gbps		
303	CoS Critical Data Svc - 6.5 Gbps	Class of Service (CoS) Package Critical Data Service - 6.5 Gbps	22020
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 6.5 Gbps		
304	CoS Critical Data Svc - 7 Gbps	Class of Service (CoS) Package Critical Data Service - 7 Gbps	22021
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 7 Gbps		
305	CoS Critical Data Svc - 7.5 Gbps	Class of Service (CoS) Package Critical Data Service - 7.5 Gbps	22022
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 7.5 Gbps		
306	CoS Critical Data Svc - 8 Gbps	Class of Service (CoS) Package Critical Data Service - 8 Gbps	22023

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 8 Gbps		
307	CoS Critical Data Svc - 8.5 Gbps	Class of Service (CoS) Package Critical Data Service - 8.5 Gbps	22024
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 8.5 Gbps		
308	CoS Critical Data Svc - 9 Gbps	Class of Service (CoS) Package Critical Data Service - 9 Gbps	22025
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 9 Gbps		
309	CoS Critical Data Svc - 9.5 Gbps	Class of Service (CoS) Package Critical Data Service - 9.5 Gbps	22026
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 9.5 Gbps		
310	CoS Critical Data Svc - 10 Gbps	Class of Service (CoS) Package Critical Data Service - 10 Gbps	22027
	Bidder's Product Description: Class of Service (CoS) Package Critical Data Service - 10 Gbps		
	CoS Business Data Service	Class of Service (CoS) Package Business Data Service	Multiple – Feature IDs listed below
	Bidder's Product Description: Class of Service (CoS) package for normal business data traffic; Four profiles, 0-30% Best Effort. Supports CoS 3, 4, and No CoS.		
311	CoS Business Data Svc - 128 Kbps	Class of Service (CoS) Package Business Data Service - 128 Kbps	18369
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 128 Kbps		

	Feature Name	Feature Description	Bidder's Product Identifier
312	CoS Business Data Svc - 256 Kbps	Class of Service (CoS) Package Business Data Service - 256 Kbps	18371
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 256 Kbps		
313	CoS Business Data Svc - 384 Kbps	Class of Service (CoS) Package Business Data Service - 384 Kbps	18373
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 384 Kbps		
314	CoS Business Data Svc - 512 Kbps	Class of Service (CoS) Package Business Data Service - 512 Kbps	18375
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 512 Kbps		
315	CoS Business Data Svc - 768 Kbps	Class of Service (CoS) Package Business Data Service - 768 Kbps	18379
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 768 Kbps		
316	CoS Business Data Svc - 1 Mbps	Class of Service (CoS) Package Business Data Service - 1 Mbps	19714
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 1 Mbps		
317	CoS Business Data Svc - 1024 Kbps	Class of Service (CoS) Package Business Data Service - 1024 Kbps	18380
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 1024 Kbps		
318	CoS Business Data Svc -1.544 Mbps	Class of Service (CoS) Package Business Data Service - 1.544 Mbps	18381
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 1.544 Mbps		
319	CoS Business Data Svc - 2 Mbps	Class of Service (CoS) Package Business Data Service - 2 Mbps	19715

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 2 Mbps		
320	CoS Business Data Svc - 3 Mbps	Class of Service (CoS) Package Business Data Service - 3 Mbps	19716
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 3 Mbps		
321	CoS Business Data Svc - 3.088 Mbps	Class of Service (CoS) Package Business Data Service - 3.088 Mbps	18385
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 3.088 Mbps		
322	CoS Business Data Svc - 4 Mbps	Class of Service (CoS) Package Business Data Service - 4 Mbps	19717
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 4 Mbps		
323	CoS Business Data Svc - 4.632 Mbps	Class of Service (CoS) Package Business Data Service - 4.632 Mbps	18387
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 4.632 Mbps		
324	CoS Business Data Svc - 5 Mbps	Class of Service (CoS) Package Business Data Service - 5 Mbps	18390
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 5 Mbps		
325	CoS Business Data Svc - 6 Mbps	Class of Service (CoS) Package Business Data Service - 6 Mbps	19718
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 6 Mbps		
326	CoS Business Data Svc - 6.176 Mbps	Class of Service (CoS) Package Business Data Service - 6.176 Mbps	18389
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 6.176 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
327	CoS Business Data Svc - 7 Mbps	Class of Service (CoS) Package Business Data Service -7 Mbps	19719
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service -7 Mbps		
328	CoS Business Data Svc - 7.720 Mbps	Class of Service (CoS) Package Business Data Service - 7.720 Mbps	18391
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 7.720 Mbps		
329	CoS Business Data Svc - 8 Mbps	Class of Service (CoS) Package Business Data Service - 8 Mbps	19720
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 8 Mbps		
330	CoS Business Data Svc - 9 Mbps	Class of Service (CoS) Package Business Data Service - 9 Mbps	19721
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 9 Mbps		
331	CoS Business Data Svc - 9.246 Mbps	Class of Service (CoS) Package Business Data Service - 9.246 Mbps	18393
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 9.246 Mbps		
332	CoS Business Data Svc - 10 Mbps	Class of Service (CoS) Package Business Data Service - 10 Mbps	18394
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 10 Mbps		
333	CoS Business Data Svc - 10.808 Mbps	Class of Service (CoS) Package Business Data Service - 10.808 Mbps	18396
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 10.808 Mbps		
334	CoS Business Data Svc - 12.352 Mbps	Class of Service (CoS) Package Business Data Service - 12.352 Mbps	18398

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 12.352 Mbps		
335	CoS Business Data Svc - 15 Mbps	Class of Service (CoS) Package Business Data Service - 15 Mbps	18400
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 15 Mbps		
336	CoS Business Data Svc - 20 Mbps	Class of Service (CoS) Package Business Data Service - 20 Mbps	18402
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 20 Mbps		
337	CoS Business Data Svc - 25 Mbps	Class of Service (CoS) Package Business Data Service - 25 Mbps	18403
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 25 Mbps		
338	CoS Business Data Svc - 30 Mbps	Class of Service (CoS) Package Business Data Service - 30 Mbps	18404
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 30 Mbps		
339	CoS Business Data Svc - 40 Mbps	Class of Service (CoS) Package Business Data Service - 40 Mbps	19722
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 40 Mbps		
340	CoS Business Data Svc - 45 Mbps	Class of Service (CoS) Package Business Data Service - 45 Mbps	18408
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 45 Mbps		
341	CoS Business Data Svc - 50 Mbps	Class of Service (CoS) Package Business Data Service - 50 Mbps	18405
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 50 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
342	CoS Business Data Svc - 60 Mbps	Class of Service (CoS) Package Business Data Service - 60 Mbps	19723
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 60 Mbps		
343	CoS Business Data Svc - 70 Mbps	Class of Service (CoS) Package Business Data Service - 70 Mbps	19724
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 70 Mbps		
344	CoS Business Data Svc - 75 Mbps	Class of Service (CoS) Package Business Data Service - 75 Mbps	18406
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 75 Mbps		
345	CoS Business Data Svc - 80 Mbps	Class of Service (CoS) Package Business Data Service - 80 Mbps	19725
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 80 Mbps		
346	CoS Business Data Svc - 90 Mbps	Class of Service (CoS) Package Business Data Service - 90 Mbps	19726
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 90 Mbps		
347	CoS Business Data Svc - 100 Mbps	Class of Service (CoS) Package Business Data Service - 100 Mbps	18409
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 100 Mbps		
348	CoS Business Data Svc -150 Mbps	Class of Service (CoS) Package Business Data Service - 150 Mbps	19727
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 150 Mbps		
349	CoS Business Data Svc - 155 Mbps	Class of Service (CoS) Package Business Data Service - 155 Mbps	18410

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 155 Mbps		
350	CoS Business Data Svc - 200 Mbps	Class of Service (CoS) Package Business Data Service - 200 Mbps	18411
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 200 Mbps		
351	CoS Package Business Data Svc - 250 Mbps	Class of Service (CoS) Package Business Data Service - 250 Mbps	20417
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 250 Mbps		
352	CoS Business Data Svc - 300 Mbps	Class of Service (CoS) Package Business Data Service - 300 Mbps	18412
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 300 Mbps		
353	CoS Business Data Svc - 400 Mbps	Class of Service (CoS) Package Business Data Service - 400 Mbps	18413
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 400 Mbps		
354	CoS Business Data Svc- 450 Mbps	Class of Service (CoS) Package Business Data Service - 450 Mbps	20408
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 450 Mbps		
355	CoS Business Data Svc- 500 Mbps	Class of Service (CoS) Package Business Data Service - 500 Mbps	18414
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 500 Mbps		
356	CoS Business Data Svc- 600 Mbps	Class of Service (CoS) Package Business Data Service - 600 Mbps	18415
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 600 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
357	CoS Business Data Svc- 622 Mbps	Class of Service (CoS) Package Business Data Service - 622 Mbps	18416
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 622 Mbps		
358	CoS Business Data Svc- 700 Mbps	Class of Service (CoS) Package Business Data Service - 700 Mbps	18417
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 700 Mbps		
359	CoS Business Data Svc- 800 Mbps	Class of Service (CoS) Package Business Data Service - 800 Mbps	18418
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 800 Mbps		
360	CoS Business Data Svc - 900 Mbps	Class of Service (CoS) Package Business Data Service - 900 Mbps	18419
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 900 Mbps		
361	CoS Business Data Svc - 1 Gbps	Class of Service (CoS) Package Business Data Service - 1 Gbps	18420
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 1 Gbps		
362	CoS Business Data Svc - 2 Gbps	Class of Service (CoS) Package Business Data Service - 2 Gbps	22028
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 2 Gbps		
363	CoS Business Data Svc - 2.5 Gbps	Class of Service (CoS) Package Business Data Service - 2.5 Gbps	22029
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 2.5 Gbps		
364	CoS Business Data Svc - 3 Gbps	Class of Service (CoS) Package Business Data Service - 3 Gbps	22030

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 3 Gbps		
365	CoS Business Data Svc - 3.5 Gbps	Class of Service (CoS) Package Business Data Service - 3.5 Gbps	22031
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 3.5 Gbps		
366	CoS Business Data Svc - 4 Gbps	Class of Service (CoS) Package Business Data Service - 4 Gbps	22032
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 4 Gbps		
367	CoS Business Data Svc - 4.5 Gbps	Class of Service (CoS) Package Business Data Service - 4.5 Gbps	22033
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 4.5 Gbps		
368	CoS Business Data Svc - 5 Gbps	Class of Service (CoS) Package Business Data Service - 5 Gbps	22034
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 5 Gbps		
369	CoS Business Data Svc - 5.5 Gbps	Class of Service (CoS) Package Business Data Service - 5.5 Gbps	22035
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 5.5 Gbps		
370	CoS Business Data Svc - 6 Gbps	Class of Service (CoS) Package Business Data Service - 6 Gbps	22036
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 6 Gbps		
371	CoS Business Data Svc - 6.5 Gbps	Class of Service (CoS) Package Business Data Service - 6.5 Gbps	22037
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 6.5 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
372	CoS Business Data Svc - 7 Gbps	Class of Service (CoS) Package Business Data Service - 7 Gbps	22038
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 7 Gbps		
373	CoS Business Data Svc - 7.5 Gbps	Class of Service (CoS) Package Business Data Service - 7.5 Gbps	22039
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 7.5 Gbps		
374	CoS Business Data Svc - 8 Gbps	Class of Service (CoS) Package Business Data Service - 8 Gbps	22040
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 8 Gbps		
375	CoS Business Data Svc - 8.5 Gbps	Class of Service (CoS) Package Business Data Service - 8.5 Gbps	22041
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 8.5 Gbps		
376	CoS Business Data Svc - 9 Gbps	Class of Service (CoS) Package Business Data Service - 9 Gbps	22042
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 9 Gbps		
377	CoS Business Data Svc - 9.5 Gbps	Class of Service (CoS) Package Business Data Service - 9.5 Gbps	22043
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 9.5 Gbps		
378	CoS Business Data Svc -10 Gbps	Class of Service (CoS) Package Business Data Service - 10 Gbps	22044
	Bidder's Product Description: Class of Service (CoS) Package Business Data Service - 10 Gbps		
	MPLS Unilink	MPLS Unilink	Multiple – Feature IDs listed below

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Multiple logical connections on AVPN port; Allows multiple logical connections on AVPN port.		
379	MPLS Unilink -128 Kbps	MPLS Unilink - 128 Kbps	18430
	Bidder's Product Description: MPLS Unilink - 128 Kbps		
380	MPLS Unilink -256 Kbps	MPLS Unilink - 256 Kbps	18432
	Bidder's Product Description: MPLS Unilink - 256 Kbps		
381	MPLS Unilink -384 Kbps	MPLS Unilink - 384 Kbps	18434
	Bidder's Product Description: MPLS Unilink - 384 Kbps		
382	MPLS Unilink -512 Kbps	MPLS Unilink - 512 Kbps	18436
	Bidder's Product Description: MPLS Unilink - 512 Kbps		
383	MPLS Unilink -768 Kbps	MPLS Unilink - 768 Kbps	18440
	Bidder's Product Description: MPLS Unilink - 768 Kbps		
384	MPLS Unilink - 1 Mbps	MPLS Unilink - 1 Mbps	19658
	Bidder's Product Description: MPLS Unilink -1 Mbps		
385	MPLS Unilink - 1024 Kbps	MPLS Unilink - 1024 Kbps	18441
	Bidder's Product Description: MPLS Unilink - 1024 Kbps		

	Feature Name	Feature Description	Bidder's Product Identifier
386	MPLS Unilink - 1.544 Mbps	MPLS Unilink - 1.544 Mbps	18442
	Bidder's Product Description: MPLS Unilink - 1.544 Mbps		
387	MPLS Unilink - 2 Mbps	MPLS Unilink - 2 Mbps	19659
	Bidder's Product Description: MPLS Unilink - 2 Mbps		
388	MPLS Unilink - 3 Mbps	MPLS Unilink - 3 Mbps	19660
	Bidder's Product Description: MPLS Unilink - 3 Mbps		
389	MPLS Unilink - 3.088 Mbps	MPLS Unilink - 3.088 Mbps	18446
	Bidder's Product Description: MPLS Unilink - 3.088 Mbps		
390	MPLS Unilink - 4 Mbps	MPLS Unilink - 4 Mbps	19661
	Bidder's Product Description: MPLS Unilink - 4 Mbps		
391	MPLS Unilink - 4.632 Mbps	MPLS Unilink - 4.632 Mbps	18448
	Bidder's Product Description: MPLS Unilink - 4.632 Mbps		
392	MPLS Unilink - 5 Mbps	MPLS Unilink - 5 Mbps	18451
	Bidder's Product Description: MPLS Unilink - 5 Mbps		
393	MPLS Unilink - 6 Mbps	MPLS Unilink - 6 Mbps	19662

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Unilink - 6 Mbps		
394	MPLS Unilink - 6.176 Mbps	MPLS Unilink - 6.176 Mbps	18450
	Bidder's Product Description: MPLS Unilink - 6.176 Mbps		
395	MPLS Unilink - 7 Mbps	MPLS Unilink - 7 Mbps	19663
	Bidder's Product Description: MPLS Unilink - 7 Mbps		
396	MPLS Unilink - 7.720 Mbps	MPLS Unilink - 7.720 Mbps	18452
	Bidder's Product Description: MPLS Unilink - 7.720 Mbps		
397	MPLS Unilink - 8 Mbps	MPLS Unilink - 8 Mbps	19664
	Bidder's Product Description: MPLS Unilink - 8 Mbps		
398	MPLS Unilink - 9 Mbps	MPLS Unilink - 9 Mbps	19665
	Bidder's Product Description: MPLS Unilink - 9 Mbps		
399	MPLS Unilink - 9.264 Mbps	MPLS Unilink - 9.264 Mbps	18454
	Bidder's Product Description: MPLS Unilink - 9.264 Mbps		
400	MPLS Unilink - 10 Mbps	MPLS Unilink - 10 Mbps	18455
	Bidder's Product Description: MPLS Unilink - 10 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
401	MPLS Unilink - 10.808 Mbps	MPLS Unilink - 10.808 Mbps	18457
	Bidder's Product Description: MPLS Unilink - 10.808 Mbps		
402	MPLS Unilink - 12.352 Mbps	MPLS Unilink - 12.352 Mbps	18459
	Bidder's Product Description: MPLS Unilink - 12.352 Mbps		
403	MPLS Unilink - 15 Mbps	MPLS Unilink - 15 Mbps	18461
	Bidder's Product Description: MPLS Unilink - 15 Mbps		
404	MPLS Unilink - 20 Mbps	MPLS Unilink - 20 Mbps	18463
	Bidder's Product Description: MPLS Unilink - 20 Mbps		
405	MPLS Unilink - 25 Mbps	MPLS Unilink - 25 Mbps	18464
	Bidder's Product Description: MPLS Unilink - 25 Mbps		
406	MPLS Unilink - 30 Mbps	MPLS Unilink - 30 Mbps	18465
	Bidder's Product Description: MPLS Unilink - 30 Mbps		
407	MPLS Unilink - 40 Mbps	MPLS Unilink - 40 Mbps	19666
	Bidder's Product Description: MPLS Unilink - 40 Mbps		
408	MPLS Unilink - 45 Mbps	MPLS Unilink - 45 Mbps	18469

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Unilink - 45 Mbps		
409	MPLS Unilink - 50 Mbps	MPLS Unilink - 50 Mbps	18466
	Bidder's Product Description: MPLS Unilink - 50 Mbps		
410	MPLS Unilink - 60 Mbps	MPLS Unilink - 60 Mbps	19667
	Bidder's Product Description: MPLS Unilink - 60 Mbps		
411	MPLS Unilink - 70 Mbps	MPLS Unilink - 70 Mbps	19668
	Bidder's Product Description: MPLS Unilink - 70 Mbps		
412	MPLS Unilink - 75 Mbps	MPLS Unilink - 75 Mbps	18467
	Bidder's Product Description: MPLS Unilink - 75 Mbps		
413	MPLS Unilink - 80 Mbps	MPLS Unilink - 80 Mbps	19669
	Bidder's Product Description: MPLS Unilink - 80 Mbps		
414	MPLS Unilink - 90 Mbps	MPLS Unilink - 90 Mbps	19670
	Bidder's Product Description: MPLS Unilink - 90 Mbps		
415	MPLS Unilink -100 Mbps	MPLS Unilink - 100 Mbps	18470
	Bidder's Product Description: MPLS Unilink - 100 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
416	MPLS Unilink - 150 Mbps	MPLS Unilink - 150 Mbps	19671
	Bidder's Product Description: MPLS Unilink - 150 Mbps		
417	MPLS Unilink - 155 Mbps	MPLS Unilink - 155 Mbps	18471
	Bidder's Product Description: MPLS Unilink - 155 Mbps		
418	MPLS Unilink - 200 Mbps	MPLS Unilink - 200 Mbps	18472
	Bidder's Product Description: MPLS Unilink - 200 Mbps		
419	MPLS Unilink - 250 Mbps	MPLS Unilink - 250 Mbps	20413
	Bidder's Product Description: MPLS Unilink - 250 Mbps		
420	MPLS Unilink - 300 Mbps	MPLS Unilink - 300 Mbps	18473
	Bidder's Product Description: MPLS Unilink - 300 Mbps		
421	MPLS Unilink - 400 Mbps	MPLS Unilink - 400 Mbps	18474
	Bidder's Product Description: MPLS Unilink - 400 Mbps		
422	MPLS Unilink - 450 Mbps	MPLS Unilink - 450 Mbps	20404
	Bidder's Product Description: MPLS Unilink - 450 Mbps		
423	MPLS Unilink - 500 Mbps	MPLS Unilink - 500 Mbps	18475

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Unilink - 500 Mbps		
424	MPLS Unilink - 600 Mbps	MPLS Unilink - 600 Mbps	18476
	Bidder's Product Description: MPLS Unilink - 600 Mbps		
425	MPLS Unilink - 622 Mbps	MPLS Unilink - 622 Mbps	18477
	Bidder's Product Description: MPLS Unilink - 622 Mbps		
426	MPLS Unilink -700 Mbps	MPLS Unilink - 700 Mbps	18478
	Bidder's Product Description: MPLS Unilink - 700 Mbps		
427	MPLS Unilink - 800 Mbps	MPLS Unilink - 800 Mbps	18479
	Bidder's Product Description: MPLS Unilink - 800 Mbps		
428	MPLS Unilink - 900 Mbps	MPLS Unilink - 900 Mbps	18480
	Bidder's Product Description: MPLS Unilink - 900 Mbps		
429	MPLS Unilink - 1 Gbps	MPLS Unilink - 1 Gbps	18481
	Bidder's Product Description: MPLS Unilink - 1 Gbps		
430	MPLS Unilink - 2 Gbps	MPLS Unilink - 2 Gbps	21960
	Bidder's Product Description: MPLS Unilink - 2 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
431	MPLS Unilink - 2.5 Gbps	MPLS Unilink - 2.5 Gbps	21961
	Bidder's Product Description: MPLS Unilink - 2.5 Gbps		
432	MPLS Unilink - 3 Gbps	MPLS Unilink - 3 Gbps	21962
	Bidder's Product Description: MPLS Unilink - 3 Gbps		
433	MPLS Unilink - 3.5 Gbps	MPLS Unilink - 3.5 Gbps	21963
	Bidder's Product Description: MPLS Unilink - 3.5 Gbps		
434	MPLS Unilink - 4 Gbps	MPLS Unilink - 4 Gbps	21964
	Bidder's Product Description: MPLS Unilink - 4 Gbps		
435	MPLS Unilink - 4.5 Gbps	MPLS Unilink - 4.5 Gbps	21965
	Bidder's Product Description: MPLS Unilink - 4.5 Gbps		
436	MPLS Unilink - 5 Gbps	MPLS Unilink - 5 Gbps	21966
	Bidder's Product Description: MPLS Unilink - 5 Gbps		
437	MPLS Unilink - 5.5 Gbps	MPLS Unilink - 5.5 Gbps	21967
	Bidder's Product Description: MPLS Unilink - 5.5 Gbps		
438	MPLS Unilink - 6 Gbps	MPLS Unilink - 6 Gbps	21968

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: MPLS Unilink - 6 Gbps		
439	MPLS Unilink - 6.5 Gbps	MPLS Unilink - 6.5 Gbps	21969
	Bidder's Product Description: MPLS Unilink - 6.5 Gbps		
440	MPLS Unilink - 7 Gbps	MPLS Unilink - 7 Gbps	21970
	Bidder's Product Description: MPLS Unilink - 7 Gbps		
441	MPLS Unilink - 7.5 Gbps	MPLS Unilink - 7.5 Gbps	21971
	Bidder's Product Description: MPLS Unilink - 7.5 Gbps		
442	MPLS Unilink - 8 Gbps	MPLS Unilink - 8 Gbps	21972
	Bidder's Product Description: MPLS Unilink - 8 Gbps		
443	MPLS Unilink - 8.5 Gbps	MPLS Unilink - 8.5 Gbps	21973
	Bidder's Product Description: MPLS Unilink - 8.5 Gbps		
444	MPLS Unilink - 9 Gbps	MPLS Unilink - 9 Gbps	21974
	Bidder's Product Description: MPLS Unilink - 9 Gbps		
445	MPLS Unilink - 9.5 Gbps	MPLS Unilink - 9.5 Gbps	21975
	Bidder's Product Description: MPLS Unilink - 9.5 Gbps		

	Feature Name	Feature Description	Bidder's Product Identifier
446	MPLS Unilink - 10 Gbps	MPLS Unilink - 10 Gbps	21976
	Bidder's Product Description: MPLS Unilink - 10 Gbps		
447	Multi VPN Logical Channel Surcharge VPNs 1 - 20	Multi VPN Logical Channel Surcharge VPNs 1 - 20	23816
	Bidder's Product Description: Multi VPN Logical Channel Surcharge VPNs 1 - 20		
448	Multi VPN Logical Channel Surcharge VPNs 21 - 80	Multi VPN Logical Channel Surcharge VPNs 21 - 80	23817
	Bidder's Product Description: Multi VPN Logical Channel Surcharge VPNs 21 - 80		
449	Multi VPN Logical Channel Surcharge VPNs 81 - 150	Multi VPN Logical Channel Surcharge VPNs 81 - 150	23818
	Bidder's Product Description: Multi VPN Logical Channel Surcharge VPNs 81 - 150		
450	Multi VPN Logical Channel Surcharge VPNs 151 - 350	Multi VPN Logical Channel Surcharge VPNs 151 - 350	23819
	Bidder's Product Description: Multi VPN Logical Channel Surcharge VPNs 151 - 350		
451	Multi VPN Logical Channel Surcharge VPNs 351 - 500	Multi VPN Logical Channel Surcharge VPNs 351 - 500	23820
	Bidder's Product Description: Multi VPN Logical Channel Surcharge VPNs 351 - 500		
	AT&T VPN Managed Router feature	AT&T - Owned/AT&T-Managed Router Option	Multiple – Feature IDs listed below

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T Managed Router Solution is a complimentary service to the MPLS ports offered in 1.2.2.8.1.a MRS provides life cycle management features for the managed router. This allows customers to request and order physical and logical changes to an installed managed router, professional services, backup options and read only access to router configs and other parameters. Under the AT&T VPN Managed Router feature, AT&T provides, configures, monitors, manages and maintains the AT&T-provided Equipment located at the Customer Site. The Equipment may consist of a router and other Equipment, as applicable, e.g. an asynchronous modem used to diagnose and manage the router. Under the AT&T-Owned/AT&T-Managed option, the Managed Router is owned by AT&T and made available to Customer for use as part of AT&T VPN Service.		
452	AVPN Managed Router - Very Small	AVPN Managed Router (AT&T Owned) -Very Small	18494
	Bidder's Product Description: Installation of a Very Small size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 4 FE LAN ports and 1 Ethernet WAN port. Includes LTE wireless. Supports up to 10 Mbps throughput		
453	AVPN Managed Router - Basic	AVPN Managed Router (AT&T Owned) – Basic	18495
	Bidder's Product Description: Installation of a Basic size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 2 FE LAN ports and 1 WAN port. Supports 56kbps to 4xT1 WAN links.		
454	AVPN Managed Router - Small	AVPN Managed Router (AT&T Owned) – Small	18496
	Bidder's Product Description: Installation of a Small size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 2 FE LAN ports and 1 WAN port. Supports 56kbps to 6xT1 WAN links		
455	AVPN Managed Router - Medium	AVPN Managed Router (AT&T Owned) – Medium	18497
	Bidder's Product Description: Installation of a Medium size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 2 GE LAN ports and 1 WAN port. Supports 56kbps to 8xT1 or WAN links		
456	AVPN Managed Router - Large	AVPN Managed Router (AT&T Owned) – Large	18498

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Installation of a Large size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 2 GE LAN ports and 1 WAN port. Supports 56kbps to 8xT1, T3 or Ethernet to 100 Mbps WAN Link.		
457	AVPN Managed Router - XLarge	AVPN Managed Router (AT&T Owned) – XLarge	18499
	Bidder's Product Description: Installation of an XLarge size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 2 GE LAN ports and 1 WAN port. Supports 56kbps to 8xT1, T3 or Ethernet to 100 Mbps WAN link		
458	AVPN Managed Router - XLarge +	AVPN Managed Router (AT&T Owned) – XLarge +	18500
	Bidder's Product Description: Installation of an XLarge+ size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 3 GE LAN ports and 1 WAN port. Supports 56kbps to 8xT1, T3, Ethernet to 200 Mbps, or OC3 WAN link.		
459	AVPN Managed Router - XXLarge	AVPN Managed Router (AT&T Owned) – XXLarge	19205
	Bidder's Product Description: Installation of an XXLarge size router, including basic inside wiring. Includes configuration, life-cycle maintenance and diagnostic monitoring. Base router with 3 GE LAN ports and 1 WAN port. Supports 56 Kbps to 8xT1, T3, Ethernet to 1000 Mbps, OC3 or OC12 WAN link.		
	AVPN Managed	Internal and External CSU Options	Multiple (See Feature IDs below)
	Bidder's Product Description: The CSU options will be determined by the AVPN port speed and type selected above. • Internal CSUs may be AT&T Owned and Managed • AT&T Owned and Managed Probes (External CSU) – may be used with AT&T Owned and Managed Router. • External CSU is required for AVPN Managed Enhanced Reports		
460	AVPN Managed Internal CSU - Internal T1	AVPN Managed Internal CSU (AT&T Owned) – Internal T1	18488

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Per serial port (<=T1 w/ CSU function) added & used on the router for either Frame Relay or Private Line connectivity.		
461	AVPN Managed Internal CSU - T3/DS3	AVPN Managed Internal CSU (AT&T Owned) –T3/DS3	18489
	Bidder's Product Description: Per T3 port added & used on the router for Frame Relay connectivity		
462	AVPN Managed Internal CSU - IMA	AVPN Managed Internal CSU (AT&T Owned) – IMA	19925
	Bidder's Product Description: Per T1 port added & used on the router for IMA connectivity. One per IMA port.		
463	AVPN Managed Internal CSU - MLPPP	AVPN Managed Internal CSU(AT&T Owned) – MLPPP	19926
	Bidder's Product Description: Per T1 port added & used on the router for MLPPP connectivity. One per MLPP port.		
464	AVPN Managed Internal CSU - T3/DS3 ATM	AVPN Managed Internal CSU(AT&T Owned) – T3/DS3 ATM protocol	19927
	Bidder's Product Description: Per T3 port added & used on the router for ATM connectivity.		
465	AVPN Managed Internal CSU - T3/DS3 PPP	AVPN Managed Internal CSU (AT&T Owned) – Internal T3/DS3 PPP protocol	19928
	Bidder's Product Description: Per T3 port added and used on the router for Private Line (PPP or Frame Encap) connectivity.		
466	AVPN Managed Internal CSU - Gig Eth- Low	AVPN Managed Internal CSU (AT&T Owned) – Gig Ethernet – Low End	21797
	Bidder's Product Description: Gigabit Ethernet port with SFP LC connector and SX or LX/LH transceiver. Per port added.		

	Feature Name	Feature Description	Bidder's Product Identifier
467	AVPN Managed Internal CSU - Gig Eth- High	AVPN Managed Internal CSU (AT&T Owned) – Gig Ethernet – High End	21798
	Bidder's Product Description: Gigabit Ethernet port Network Module with 1000BASE-T GBIC, or 1000BASE-SX Short Wavelength GBIC (Multimode only), or 1000BASE-LX/LH long haul GBIC (singlemode or multimode). Per port added.		
468	AVPN Managed Internal CSU - Gig Eth Combo	AVPN Managed Internal CSU (AT&T Owned) – Gig Ethernet Combo	21799
	Bidder's Product Description: Gigabit Ethernet port Network Module with 1000Base-ZX extended reach GBIC (singlemode). Per port added.		
469	AVPN Managed Internal CSU - OC3/STM1 ATM	AVPN Managed Internal CSU (AT&T Owned) – OC3/STM1 ATM	21903
	Bidder's Product Description: Per OC3 ATM ports added.		
470	AVPN Managed Internal CSU - OC3/ STM1 PPP	AVPN Managed Internal CSU (AT&T Owned) – OC3/ STM1 PPP	21904
	Bidder's Product Description: Per OC3 PPP ports added.		
471	AVPN Managed Internal CSU - OC12/STM4 PPP	AVPN Managed Internal CSU (AT&T Owned) – OC12/STM4 PPP	21905
	Bidder's Product Description: Per OC12 PPP ports added.		
472	AVPN Managed External CSU/DSU T1/E1	AVPN Managed External CSU/DSU T1/E1	19933
	Bidder's Product Description: External CSU/DSU per T1 port. V.35 connection to router. Required for Enhanced Reporting.		
473	AVPN Managed External In-line	AVPN Managed External In-line Probe NXT1/E1 PPP	19935

	Feature Name	Feature Description	Bidder's Product Identifier
	Probe NXT1/E1 PPP		
	Bidder's Product Description: External probed per NXT1 port for MLPPP connectivity. RJ45 connection to router. Required for Enhanced Reporting.		
474	AVPN Managed External Probe T3/E3 FR	AVPN Managed External Probe T3/E3 FR	19937
	Bidder's Product Description: External Probe per T3 FR port. Coax interface to router. Required for Enhanced Reporting		
475	AVPN Managed External Probe T3/E3 ATM	AVPN Managed External Probe T3/E3 ATM	19936
	Bidder's Product Description: External Probe per T3 ATM port. Coax interface to router. Required for Enhanced Reporting.		
476	AVPN Managed External Probe T3/E3 PPP	AVPN Managed External Probe T3/E3 PPP	19938
	Bidder's Product Description: External CSU per T3 PPP port. Coax interface to router. Required for Enhanced Reporting.		
477	AVPN Managed External Probe OC3 ATM/PPP	AVPN Managed External Probe OC3 ATM/PPP	19939
	Bidder's Product Description: External Probe per OC3 ATM port. Fiber interface to router. Required for Enhanced Reporting.		
478	AVPN Managed External Probe 10/100 Mbps	AVPN Managed External Probe 10/100 Mbps Ethernet	22663
	Bidder's Product Description: External Probe per Ethernet 10/100 port. RJ-45 connection to router. Required for Enhanced Reporting.		
479	AVPN Managed External Probe 1 Gbps	AVPN Managed External Probe 1 Gbps Ethernet	22664

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: External Probe per Ethernet 1 Gbps port. Fiber connection to router. Required for Enhanced Reporting.		
480	AVPN Managed Enhanced Reports	AVPN Managed Enhanced Reports	19947
	Bidder's Product Description: Enhanced network performance reporting. Requires external CSU/DSU or probe. Per CSU/DSU or probe.		
	AVPN Managed (AT&T Owned) Additional Router Features	AVPN Managed (AT&T Owned) Additional Router Features	Multiple (See feature IDs below)
	Bidder's Product Description: Options below may be added to the AT&T Owned Router or Customer Owned router depending on the selection of WAN port speed, COS, resiliency, protocol, and LAN port quantities.		
481	AVPN Managed Router- Additional Protocol Support	AVPN Managed (AT&T Owned) Router - Additional Protocol Support	18502
	Bidder's Product Description: SNA or IPX - Includes cost for additional IOS feature set required. In some cases additional router memory may be required in order to hold the IOS and allow the router to function. These additional memory costs are NOT covered under this charge, but will be charged under the Additional Memory feature.		
482	AVPN Managed Router- Additional Serial Port	AVPN Managed (AT&T Owned) Router - Additional Serial Port	18517
	Bidder's Product Description: Per serial port added & used on the router		
483	AVPN Managed Router- Additional LAN Port	AVPN Managed (AT&T Owned) Router - Additional LAN Port	18518
	Bidder's Product Description: Per card added & used Token Ring, Ethernet or Fast Ethernet port in use on the router		
484	AVPN Managed Router- Add Memory XL	AVPN Managed (AT&T Owned) Router - Additional Memory up to XL	18516

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: All available memory above the defaults are available at additional monthly recurring charge		
485	AVPN Managed Router- Add Memory XL+	AVPN Managed (AT&T Owned) Router – Additional Memory XL+	21906
	Bidder's Product Description: All available memory above the defaults are available at additional monthly recurring charge.		
486	AT&T Managed Router- Dual Power XL	AVPN AT&T Managed (AT&T Owned) Router - Dual Power up to XL Added for routers equipped with dual power supplies.	23102
	Bidder's Product Description: AT&T Managed (AT&T Owned) Router - Dual Power up to XL Added for routers equipped with dual power supplies.		
487	AT&T Managed Router- Dual Power XL+	AT&T Managed (AT&T Owned) Router – Dual Power XL+	21908
	Bidder's Product Description: Added for routers equipped with dual power supplies.		
488	AT&T Managed Router- Dual Power XXL	AT&T Managed (AT&T Owned) Router – Dual Power XXL	21909
	Bidder's Product Description: Added for routers equipped with dual power supplies.		
489	AVPN Managed Router- ISDN Backup BRI	AVPN Managed (AT&T Owned) Router - ISDN Backup BRI	19728
	Bidder's Product Description: Per BRI port in use on the router		
490	AVPN Managed Router - ISDN Backup PRI	AVPN Managed (AT&T Owned) Router - ISDN Backup PRI	19729
	Bidder's Product Description: Per PRI port in use on the router		
491	AT&T Managed Router – Multicast	AT&T Managed (AT&T Owned) Router – Multicast	22698

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Added for routers configured with multicast feature.		
492	AVPN Managed-CSU Internal - Mobility	4G LTE EHWIC for ATT, 700 MHz Band 17 / HSPA+ for AVPN managed router	90081
	Bidder's Product Description: 4G LTE EHWIC for ATT, 700 MHz Band 17 / HSPA+ for AVPN managed router		
493	AVPN Managed Router Mobility - Failover-Low	Wireless connection for sites with primary wireline access = 1M Ethernet & ≤ 1.5M (T1).	90084
	Bidder's Product Description: Wireless connection for sites with primary wireline access = 1M Ethernet & ≤ 1.5M (T1). Requires AVPN Managed Router with 90081, or AVPN Managed Very Small Router. AVPN Site Survey form - which confirms adequate signal strength - must be submitted to AT&T prior to test and turn-up. Customer self-survey available.		
494	AVPN Managed Router Mobility - Failover-High	For sites with primary wireline access = 2-5M Ethernet & 2xT1, 3xT1.	90088
	Bidder's Product Description: For sites with primary wireline access = 2-5M Ethernet & 2xT1, 3xT1. Requires AVPN Managed Router with 90081, or AVPN Managed Very Small Router. AVPN Site Survey form – which confirms adequate signal strength - must be submitted to AT&T prior to test and turn-up. Customer self-survey available.		
495	AVPN Mobility Interconnect Bandwidth	AVPN-to-CCS connectivity.	90087
	Bidder's Product Description: AVPN-to-CCS connectivity. Use with 90084 or 90088		
496	AVPN Mobility Custom APN Setup	Network setup and configuration of Mobility connections 90084 or 90088	90085
	Bidder's Product Description: Network setup and configuration of Mobility connections 90084 or 90088. Charge applied to first site		
497	AVPN Mobility Interconnect Setup	Setup and configuration of AVPN Mobility Interconnect Bandwidth 90087	90086
	Bidder's Product Description: Setup and configuration of AVPN Mobility Interconnect Bandwidth 90087. Charge applied to first site		
498	AVPN Site Survey - Wireless	AT&T technician performs Site Survey to determine whether adequate signal strength exists at router location ordering 90084 or 90088	89768

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T technician performs Site Survey to determine whether adequate signal strength exists at router location ordering 90084 or 90088. Not required if customer performs survey.		
	Ethernet Access to Long Distance POP off-net	Ethernet Long Distance Access Service provides Ethernet access transport services for connection to AVPN Off-Net. Speed options vary between 2 Mbps to 1 Gbps.	Multiple (See feature IDs below)
	Bidder's Product Description: Ethernet Long Distance Access Service provides Ethernet access transport services for connection to AVPN Off-Net. Speed options vary between 2 Mbps to 1 Gbps		
499	Eth to POP 2 Mbps off-net	Ethernet to POP 100-Base-TX 2 Mbps Ethernet off-net	ONET2
	Bidder's Product Description: Ethernet to POP 100-Base-TX 2 Mbps Ethernet off-net		
500	Eth to POP 4 Mbps off-net	Ethernet to POP 100-Base-TX 4 Mbps Ethernet off-net	ONET4
	Bidder's Product Description: Ethernet to POP 100-Base-TX 4 Mbps Ethernet off-net.		
501	Eth to POP 5 Mbps off-net	Ethernet to POP 100-Base-TX 5 Mbps Ethernet off-net	ONET5
	Bidder's Product Description: Ethernet to POP 100-Base-TX 5 Mbps Ethernet off-net		
502	Eth to POP 8 Mbps off-net	Ethernet to POP 100-Base-TX 8 Mbps Ethernet off-net	ONET8
	Bidder's Product Description: Ethernet to POP 100-Base-TX 8 Mbps Ethernet off-net		
503	Eth to POP 10 Mbps off-net	Ethernet to POP 100-Base-TX 10 Mbps Ethernet off-net	ONET10
	Bidder's Product Description: Ethernet to POP 100-Base-TX 10 Mbps Ethernet off-net		

	Feature Name	Feature Description	Bidder's Product Identifier
504	Eth to POP 20 Mbps off-net	Ethernet to POP 100-Base-TX 20 Mbps Ethernet off-net	ONET20
	Bidder's Product Description: Ethernet to POP 100-Base-TX 20 Mbps Ethernet off-net		
505	Eth to POP 50 Mbps off-net	Ethernet to POP 100-Base-TX 50 Mbps Ethernet off-net	ONET50
	Bidder's Product Description: Ethernet to POP 100-Base-TX 50 Mbps Ethernet off-net.		
506	Eth to POP 100 Mbps off-net	Ethernet to POP100-Base-TX 100 Mbps Ethernet off-net	ONET100
	Bidder's Product Description: Ethernet to POP 100-Base-TX 100 Mbps Ethernet off-net.		
507	Eth to POP 200 Mbps off-net	Ethernet to POP 1000-Base-SX/LX 200 Mbps Ethernet off-net	ONET200
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 200 Mbps Ethernet off-net.		
508	Eth to POP 250 Mbps off-net	Ethernet to POP 1000-Base-SX/LX 250 Mbps Ethernet off-net	ONET250
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 250 Mbps Ethernet off-net		
509	Eth to POP 300 Mbps off-net	Ethernet to POP 1000-Base-SX/LX 300 Mbps Ethernet off-net	ONET300
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 300 Mbps Ethernet off-net		
510	Eth to POP 500 Mbps off-net	Ethernet to POP 1000-Base-SX/LX 500 Mbps Ethernet off-net	ONET500
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 500 Mbps Ethernet off-net		

	Feature Name	Feature Description	Bidder's Product Identifier
511	Eth to POP 600 Mbps off-net	Ethernet to POP1000-Base-SX/LX 600 Mbps Ethernet off-net	ONET600
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 600 Mbps Ethernet off-net		
512	Eth to POP 1000 Mbps off-net	Ethernet to POP 1000-Base-SX/LX 1000 Mbps Ethernet off-net	ONET1G
	Bidder's Product Description: Ethernet to POP 1000-Base-SX/LX 1000 Mbps Ethernet off-net		
	ANIRA	AT&T Network Based IP VPN Remote Access	Multiple (See feature IDs below)
	Bidder's Product Description: The AT&T Network Based IP VPN Remote Access (ANIRA) introduces a standard set of capabilities to access AVPN. This service will provide remote access to AVPN. Customers using ANIRA can connect to a private VPN via wired or wireless internet service using the AT&T Global Network (AGN) Client. ANIRA provides the functionality to meet the technical requirement of 1.2.2.7 item 7. ANIRA uses dial-up, broadband (AT&T DSL or any third party), Wi-Fi, or cellular broadband to remotely access your data network without needing special VPN routers.		
513	ANIRA - VPN Manage Fee	ANIRA – VPN Management Fee	16940
	Bidder's Product Description: Monthly management fee for remote access users using Internet access.		
	ANIRA- Bandwidth Connection Charge (Type II)	ANIRA – Bandwidth Connection Charge (Type II)	Multiple (See feature IDs below)
	Bidder's Product Description: Connection to support aggregate bandwidth between gateway (VIG) and VPN. Monthly charge for redundant virtual connection from gateway to VPN. Sized for aggregate peak usage of connections per VPN.		
514	ANIRA - Connection Type II 128 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 128 Kbps	17606
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 128 Kbps		

	Feature Name	Feature Description	Bidder's Product Identifier
515	ANIRA - Connection Type II 192 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 192 Kbps	17607
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 192 Kbps		
516	ANIRA - Connection Type II 256 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 256 Kbps	17608
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 256 Kbps		
517	ANIRA - Connection Type II 320 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 320 Kbps	17609
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge(Type II) 320 Kbps		
518	ANIRA- Connection Type II 384 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 384 Kbps	17610
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 384 Kbps		
519	ANIRA - Connection Type II 448 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 448 Kbps	17611
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 448 Kbps		
520	ANIRA - Connection Type II 512 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 512 Kbps	17612
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 512 Kbps		
521	ANIRA - Connection Type II 576 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 576 Kbps	17613

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 576 Kbps		
522	ANIRA - Connection Type II 640 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 640 Kbps	17614
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 640 Kbps		
523	ANIRA - Connection Type II 704 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 704 Kbps	17615
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 704 Kbps.		
524	ANIRA - Connection Type II 768 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 768 Kbps	17616
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 768 Kbps		
525	ANIRA - Connection Type II 832 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 832 Kbps	17617
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 832 Kbps		
526	ANIRA - Connection Type II 896 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 896 Kbps	17618
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 896 Kbps		
527	ANIRA - Connection Type II 960 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 960 Kbps	17619
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 960 Kbps		

	Feature Name	Feature Description	Bidder's Product Identifier
528	ANIRA - Connection Type II 1024 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 1024 Kbps	17620
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 1024 Kbps		
529	ANIRA - Connection Type II 1536 Kbps	ANIRA – Bandwidth Connection Charge (Type II) 1536 Kbps	17621
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 1536 Kbps		
530	ANIRA - Connection Type II 2 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 2 Mbps	17622
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 2 Mbps		
531	ANIRA - Connection Type II 3 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 3 Mbps	17623
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 3 Mbps		
532	ANIRA - Connection Type II 4 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 4 Mbps	17624
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 4 Mbps		
533	ANIRA - Connection Type II 5 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 5 Mbps	17625
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 5 Mbps		
534	ANIRA - Connection Type II 6 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 6 Mbps	17626

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 6 Mbps		
535	ANIRA - Connection Type II 7 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 7 Mbps	17627
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 7 Mbps		
536	ANIRA - Connection Type II 8 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 8 Mbps	17628
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 8 Mbps		
537	ANIRA - Connection Type II 9 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 9 Mbps	17629
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 9 Mbps		
538	ANIRA - Connection Type II 10 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 10 Mbps	17630
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 10 Mbps		
539	ANIRA -Connection Type II 15 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 15 Mbps	17631
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 15 Mbps		
540	ANIRA - Connection Type II 20 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 20 Mbps	17632
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 20 Mbps		

	Feature Name	Feature Description	Bidder's Product Identifier
541	ANIRA - Connection Type II 25 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 25 Mbps	17633
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 25 Mbps		
542	ANIRA - Connection Type II 30 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 30 Mbps	17634
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 30 Mbps		
543	ANIRA - Connection Type II 35 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 35 Mbps	17635
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 35 Mbps		
544	ANIRA - Connection Type II 40 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 40 Mbps	17636
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 40 Mbps		
545	ANIRA - Connection Type II 50 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 50 Mbps	ANIR01
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 50 Mbps		
546	ANIRA - Connection Type II 60 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 60 Mbps	ANIR02
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 60 Mbps		
547	ANIRA - Connection Type II 70 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 70 Mbps	ANIR03

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 70 Mbps		
548	ANIRA - Connection Type II 80 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 80 Mbps	ANIR04
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 80 Mbps		
549	ANIRA - Connection Type II 90 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 90 Mbps	ANIR05
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 90 Mbps		
550	ANIRA - Connection Type II 100 Mbps	ANIRA – Bandwidth Connection Charge (Type II) 100 Mbps	ANIR06
	Bidder's Product Description: ANIRA – Bandwidth Connection Charge (Type II) 100 Mbps		
551	ANIRA SOHO Hi-end CPE	ANIRA SOHO Hi-end CPE (NG8100 / 8200)	19239
	Bidder's Product Description: AT&T Owned and managed multi-user remote access device.		
	AVPN - NBFW	AT&T VPN – Network Based Firewall	Multiple (See feature IDs below)
	Bidder's Product Description: MSS-NBFW Service will enable businesses to support and enforce sophisticated network Security Policies from one or more of the AT&T Internet Data Centers where the Network Based Security platform reside, also referred to as the Security Data Center (SDC). Customers are able to more efficiently implement a consistent Security Policy for multiple sites.		

<table>
<tr><th></th><th>Feature Name</th><th>Feature Description</th><th>Bidder's Product Identifier</th></tr>
<tr><td></td><td colspan="3">MSS-Network Based Firewall enforces traffic separation among Customers by enabling Virtual Local Area Network (VLAN) tagging. For Customers who wish to make use of the AT&T MSS-Network Based Firewall service, AT&T will establish a Private Virtual Circuit (PVC) from a Customer location to the service in order to filter the traffic coming in or going to the Internet. The type of PVC will vary based on the Customer's WAN architecture. Traffic separation is designed to occur without tunneling or encryption. MSS-NBFW Service provides the functionality to meet the technical requirement of 1.2.2.7 item 9.

Designating configuration complexity, there are three levels available as a part of AT&T's MSS-Network Based service. These levels are:
• Low Complexity
• Medium Complexity
• High Complexity</td></tr>
<tr><td rowspan="2">552</td><td>Low Complexity</td><td>Low Complexity</td><td>NF001</td></tr>
<tr><td colspan="3">Bidder's Product Description:

Low Complexity: common Customer Security Policy allowing both inbound and outbound traffic flow based on the configuration. The Low Complexity Level includes basic set of reports and certain self administration capabilities via BusinessDirect®. With this service level, the customer is provided a PAT address as default, but since inbound services can be supported, up to 8 IP addresses could be assigned as part of the service given there's justification from the customer based on the design. A typical but not exhaustive list of protocols and ports is the following:
• HTTP (80)
• HTTPS (443)
• HTTP ALT (8080)
• SMTP (25)
• HTTPS ALT (8443)
• FTP_CTRL (21)
• ICMP ECHO
• DNS UDP/TCP (53)
• TELNET (23)
• SSH/SFTP (22)</td></tr>
<tr><td rowspan="2">553</td><td>Medium Complexity</td><td>Medium Complexity</td><td>NF002</td></tr>
<tr><td colspan="3">Bidder's Product Description:</td></tr>
</table>

	Feature Name	Feature Description	Bidder's Product Identifier
	Medium Complexity: this service level provides the option to upgrade to more add-on features in addition to the inbound and outbound traffic flow support. By default, a single PAT address is assigned, but up to 16 IP addresses including the PAT address can be supported on a standard basis with sufficient justification submitted by the customer during the design phase.		
554	High Complexity	High Complexity	NF003
	Bidder's Product Description: High Complexity: this service levels supports all the features listed under Low and Medium complexities as well as provides the capability to support more add-ons, such as Cross Connect and in-region failover. By default, a single PAT address is assigned but up to 32 IP addresses including the PAT address can be supported on a standard basis with sufficient justification submitted by the Customer during the design phase.		
555	Active IDS/IPS - Basic	Active IDS/IPS - Basic	NF004
	Bidder's Product Description: This feature is applied on a per Secnet basis. Service includes IDS/IPS initial technical consultation and applies AT&T's best practices policy. Also includes IDS policy customization and addition of a limited set of custom IDS signatures to the profile as well as proactive investigational analysis for critical events and enablement of a limited set of automated IPS capabilities.		
556	Active IDS/IPS - Advanced	Active IDS/IPS - Advanced	NF005
	Bidder's Product Description: Provides a more customized service level and alert thresholds to meet more specific IDS requirements including a higher degree of profiling and tuning of IDS policy to strip out "noise" and provide notification on critical events. Additionally, AT&T Security Analyst provides live investigational analysis for all IDS events assisting with recommended mitigation actions, and making firewall policy changes to eliminate a threat if warranted.		
	Firewall Connection Bandwidth Options	Firewall Connection Bandwidth Options	Multiple (See feature IDs below)
	Bidder's Product Description: Bandwidth between the VPN and Network-Based Firewall.		
557	NBFW 512K	Network Based Fire Wall Bandwidth 512K	NF006
	Bidder's Product Description: Network Based Fire Wall Bandwidth 512K		
	NBFW 768K	Network Based Fire Wall Bandwidth 768K	NF007

	Feature Name	Feature Description	Bidder's Product Identifier
558	Bidder's Product Description: Network Based Fire Wall Bandwidth 768K		
559	NBFW 1M	Network Based Fire Wall Bandwidth 1M	NF008
	Bidder's Product Description: Network Based Fire Wall Bandwidth 1M		
560	NBFW 1.5M	Network Based Fire Wall Bandwidth 1.5M	NF009
	Bidder's Product Description: Network Based Fire Wall Bandwidth 1.5M		
561	NBFW 2M	Network Based Fire Wall Bandwidth 2M	NF010
	Bidder's Product Description: Network Based Fire Wall Bandwidth 2M		
562	NBFW 3M	Network Based Fire Wall Bandwidth 3M	NF011
	Bidder's Product Description: Network Based Fire Wall Bandwidth 3M		
563	NBFW 4M	Network Based Fire Wall Bandwidth 4M	NF012
	Bidder's Product Description: Network Based Fire Wall Bandwidth 4M		
564	NBFW 4.5M	Network Based Fire Wall Bandwidth 4.5M	NF013
	Bidder's Product Description: Network Based Fire Wall Bandwidth 4.5M		
565	NBFW 5M	Network Based Fire Wall Bandwidth 5M	NF014
	Bidder's Product Description: Network Based Fire Wall Bandwidth 5M		
566	NBFW 6M	Network Based Fire Wall Bandwidth 6M	NF015
	Bidder's Product Description: Network Based Fire Wall Bandwidth 6M		
	NBFW 7M	Network Based Fire Wall Bandwidth 7M	NF016

	Feature Name	Feature Description	Bidder's Product Identifier
567	Bidder's Product Description: Network Based Fire Wall Bandwidth 7M		
568	NBFW 7.5M	Network Based Fire Wall Bandwidth 7.5M	NF017
	Bidder's Product Description: NBFW Bandwidth 7.5M		
569	NBFW 8M	Network Based Fire Wall Bandwidth 8M	NF018
	Bidder's Product Description: Network Based Fire Wall Bandwidth 8M		
570	NBFW 9M	Network Based Fire Wall Bandwidth 9M	NF019
	Bidder's Product Description: Network Based Fire Wall Bandwidth 9M		
571	NBFW 10M	Network Based Fire Wall Bandwidth 10M	NF020
	Bidder's Product Description: Network Based Fire Wall Bandwidth 10M		
572	NBFW 10.5M	Network Based Fire Wall Bandwidth 10.5M	NF021
	Bidder's Product Description: Network Based Fire Wall Bandwidth 10.5M		
573	NBFW 12M	Network Based Fire Wall Bandwidth 12M	NF022
	Bidder's Product Description: Network Based Fire Wall Bandwidth 12M		
574	NBFW 15M	Network Based Fire Wall Bandwidth 15M	NF023
	Bidder's Product Description: Network Based Fire Wall Bandwidth 15M		
575	NBFW 20M	Network Based Fire Wall Bandwidth 20M	NF024
	Bidder's Product Description: Network Based Fire Wall Bandwidth 20M		
	NBFW 25M	Network Based Fire Wall Bandwidth 25M	NF025

	Feature Name	Feature Description	Bidder's Product Identifier
576	Bidder's Product Description: Network Based Fire Wall Bandwidth 25M		
577	NBFW 30M	Network Based Fire Wall Bandwidth 30M	NF026
	Bidder's Product Description: Network Based Fire Wall Bandwidth 30M		
578	NBFW 35M	Network Based Fire Wall Bandwidth 35M	NF027
	Bidder's Product Description: Network Based Fire Wall Bandwidth 35M		
579	NBFW 40M	Network Based Fire Wall Bandwidth 40M	NF028
	Bidder's Product Description: Network Based Fire Wall Bandwidth 40M		
580	NBFW 45M	Network Based Fire Wall Bandwidth 45M	NF029
	Bidder's Product Description: Network Based Fire Wall Bandwidth 45M		
581	NBFW 50M	Network Based Fire Wall Bandwidth 50M	NF030
	Bidder's Product Description: Network Based Fire Wall Bandwidth 50M		
582	NBFW 60M	Network Based Fire Wall Bandwidth 60M	NF031
	Bidder's Product Description: Network Based Fire Wall Bandwidth 60M		
583	NBFW 70M	Network Based Fire Wall Bandwidth 70M	NF032
	Bidder's Product Description: Network Based Fire Wall Bandwidth 70M		
584	NBFW 75M	Network Based Fire Wall Bandwidth 75M	NF033
	Bidder's Product Description: Network Based Fire Wall Bandwidth 75M		
585	NBFW 80M	Network Based Fire Wall Bandwidth 80M	NF034
	Bidder's Product Description: Network Based Fire Wall Bandwidth 80M		

	Feature Name	Feature Description	Bidder's Product Identifier
586	NBFW 90M	Network Based Fire Wall Bandwidth 90M	NF035
	Bidder's Product Description: Network Based Fire Wall Bandwidth 90M		
587	NBFW 100M	Network Based Fire Wall Bandwidth 100M	NF036
	Bidder's Product Description: Network Based Fire Wall Bandwidth 100M		
588	NBFW 125M	Network Based Fire Wall Bandwidth 125M	NF037
	Bidder's Product Description: Network Based Fire Wall Bandwidth 125M		
589	NBFW 135M	Network Based Fire Wall Bandwidth 135M	NF038
	Bidder's Product Description: Network Based Fire Wall Bandwidth 135M		
590	NBFW 150M	Network Based Fire Wall Bandwidth 150M	NF039
	Bidder's Product Description: Network Based Fire Wall Bandwidth 150M		
591	NBFW155M	Network Based Fire Wall Bandwidth 155M	NF040
	Bidder's Product Description: Network Based Fire Wall Bandwidth 155M		
592	NBFW 200M	Network Based Fire Wall Bandwidth 200M	NF041
	Bidder's Product Description: Network Based Fire Wall Bandwidth 200M		
593	NBFW 250M	Network Based Fire Wall Bandwidth 250M	NF042
	Bidder's Product Description: Network Based Fire Wall Bandwidth 250M		
594	NBFW 300M	Network Based Fire Wall Bandwidth 300M	NF043
	Bidder's Product Description: Network Based Fire Wall Bandwidth 300M		
	NBFW 350M	Network Based Fire Wall Bandwidth 350M	NF044

	Feature Name	Feature Description	Bidder's Product Identifier
595	Bidder's Product Description: Network Based Fire Wall Bandwidth 350M		
596	NBFW 400M	Network Based Fire Wall Bandwidth 400M	NF045
	Bidder's Product Description: Network Based Fire Wall Bandwidth 400M		
597	NBFW 450M	Network Based Fire Wall Bandwidth 450M	NF046
	Bidder's Product Description: Network Based Fire Wall Bandwidth 450M		
598	NBFW 500M	Network Based Fire Wall Bandwidth 500M	NF047
	Bidder's Product Description: Network Based Fire Wall Bandwidth 500M		
599	NBFW 600M	Network Based Fire Wall Bandwidth 600M	NF048
	Bidder's Product Description: Network Based Fire Wall Bandwidth 600M		
600	NBFW 700M	Network Based Fire Wall Bandwidth 700M	NF049
	Bidder's Product Description: Network Based Fire Wall Bandwidth 700M		
601	NBFW 800M	Network Based Fire Wall Bandwidth 800M	NF050
	Bidder's Product Description: Network Based Fire Wall Bandwidth 800M		
602	NBFW 900M	Network Based Fire Wall Bandwidth 900M	NF051
	Bidder's Product Description: Network Based Fire Wall Bandwidth 900M		
603	NBFW 1000M	Network Based Fire Wall Bandwidth 1000M	NF052
	Bidder's Product Description: Network Based Fire Wall Bandwidth 1000M		
604	Add Public IPv4 Addresses	Additional Public IPv4 Addresses (blocks of 2)	NF056

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: If more than the allocated number of IPv4 addresses for the chosen Service Level are needed, extra IP addresses can be requested.		
	AT&T Managed Router Solution (MRS)	AT&T Managed Router Solution (MRS)	Multiple – See Feature IDs below
	Bidder's Product Description: Under the AT&T Managed Router Solution, AT&T provides, configures, monitors, manages and maintains the AT&T Owned or Customer Owned Equipment located at the Customer Site. The Equipment may consist of a router and other Equipment, as applicable, e.g. an asynchronous modem used to diagnose and manage the router. MRS is a complementary service to AT&T VPN services. The management demarcation point for AT&T VPN is the LAN interface card on the router at the Customer Site. Note: The customer must provide a non-PBX dial up line for each managed router.		
	AT&T MRS Implementation Service	AT&T MRS Implementation Service	Multiple – See Feature IDs below
	Bidder's Product Description: AT&T MRS Implementation per Site (for up to 25 Sites per week during Standard Business Hours) (Monday - Friday, 8 a.m. - 5 p.m., local time)*		
605	AT&T MRS Implementation 1 - 24 sites	AT&T MRS Implementation Service 1 - 24 sites	MRSIM1
	Bidder's Product Description: AT&T MRS Implementation Service 1-24 sites		
606	AT&T MRS Implementation 25 - 99 sites	AT&T MRS Implementation Service 25 - 99 sites	MRSIM2
	Bidder's Product Description: AT&T MRS Implementation Service 25-99 sites		
607	AT&T MRS Implementation 100 - 399 sites	AT&T MRS Implementation Service 100 - 399 sites	MRSIM3
	Bidder's Product Description: AT&T MRS Implementation Service 100-399 sites		

	Feature Name	Feature Description	Bidder's Product Identifier
608	AT&T MRS Implementation 400 - 999 sites	AT&T MRS Implementation Service 400 - 999 sites	MRSIM4
	Bidder's Product Description: AT&T MRS Implementation Service 400-999 sites		
609	AT&T MRS Implementation 1000+ sites	AT&T MRS Implementation Service 1000+ sites	MRSIM5
	Bidder's Product Description: AT&T MRS Implementation Service 1000+ sites		
	AT&T MRS Equipment Installation	AT&T MRS Equipment Installation	Multiple – See Feature IDs below
	Bidder's Product Description: AT&T MRS Equipment Installation during Standard Business Hours) (Monday - Friday, 8:00 am - 5:00 p.m., local time)*		
610	AT&T MRS Equip Install- Low	AT&T MRS Equipment Installation -Low Complexity	MRSISLC
	Bidder's Product Description: AT&T MRS Equipment Installation - Low Complexity Cisco 19xx, 29xx series routers or equivalent Juniper series routers.		
611	AT&T MRS Equip Install-Medium	AT&T MRS Equipment Installation -Medium Complexity	MRSISMC
	Bidder's Product Description: AT&T MRS Equipment Installation - Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		
612	AT&T MRS Equip Install-High	AT&T MRS Equipment Installation - High Complexity	MRSISHC
	Bidder's Product Description: AT&T MRS Equipment Installation -High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
	AT&T MRS Complete Network Management	AT&T MRS Complete Network Management	Multiple – See Feature IDs below

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T MRS Complete Network Management		
613	AT&T MRS Manage - Low Routers	AT&T MRS Complete Network Management - Low Complexity Routers	MRSNMLC
	Bidder's Product Description: AT&T MRS Complete Network Management - Low Complexity Cisco 19xx, 29xx series routers or equivalent Juniper series routers.		
614	AT&T MRS Manage - Medium Routers	AT&T MRS Complete Network Management - Medium Complexity Routers	MRSNMMC
	Bidder's Product Description: AT&T MRS Complete Network Management - Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		
615	AT&T MRS Manage - High Routers	AT&T MRS Complete Network Management - High Complexity Routers	MRSNMHC
	Bidder's Product Description: AT&T MRS Complete Network Management - High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
	Moves, Adds, Changes and Deletes	AT&T MRS Life Cycle Management Features and Services	Multiple – See Feature IDs below
	Bidder's Product Description: Moves, Adds, Changes and Deletes consist of: Addition, Deletion or Moves of hardware at a Customer site, modifying routing tables, adding, deleting or modifying protocols or protocol prioritization schemes, Software Additions/Modifications of Serial and/or LAN connections. The AT&T Work Center will perform such work. Moves, Adds and Changes are provided on a per network, per transaction and/or per event basis as set forth in the Pricing Schedule, in the table entitled "Life Cycle Management Features." Any movement that is not an Inside Move is billed as a new order. Does not apply to disconnection of any service.		
616	MRS inside relocate same floor - Low	MRS relocate router site inside move same floor – Low Complexity	13092L
	Bidder's Product Description: Cisco 19xx, 29xx series routers or equivalent Juniper series routers		

	Feature Name	Feature Description	Bidder's Product Identifier
617	MRS inside relocate different floor - Low	MRS relocate router site inside move different floor – Low Complexity	13093L
	Bidder's Product Description: Cisco 19xx, 29xx series routers or equivalent Juniper series routers		
618	MRS inside relocate same floor - Medium	MRS relocate router site inside move same floor – Medium Complexity	13092M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers		
619	MRS inside relocate different floor- Medium	MRS relocate router site inside move different floor – Medium Complexity	13093M
	Bidder's Product Description: Cisco 39xx series routers or equivalent Juniper series routers		
620	MRS inside relocate same floor - High	MRS relocate router site inside move same floor – High Complexity	13092H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers		
621	MRS inside relocate different floor - High	MRS relocate router site inside move different floor – High Complexity	13093H
	Bidder's Product Description: Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers		
622	Router Site Add - Low	Router Site Add - Low Complexity	13118L
	Bidder's Product Description: Router Site Add - Low Complexity Cisco19xx, 29xx series routers or equivalent Juniper series routers.		
623	Router Site Add - Medium	Router Site Add - Medium Complexity	13118M
	Bidder's Product Description: Router Site Add - Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		

	Feature Name	Feature Description	Bidder's Product Identifier
624	Router Site Add - High	Router Site Add - High Complexity	13118H
	Bidder's Product Description: Router Site Add - High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
625	Add/Delete Router Boards- Low	Add/Delete Router Boards – Low Complexity	13127L
	Bidder's Product Description: Add/Delete Router Boards – Low Complexity Cisco19xx, 29xx series routers or equivalent Juniper series routers		
626	Add/Delete Router Boards - Medium	Add/Delete Router Boards – Medium Complexity	13127M
	Bidder's Product Description: Add/Delete Router Boards – Medium Complexity Cisco 39xx series routers or equivalent Juniper series routers.		
627	Add/Delete Router Boards - High	Add/Delete Router Boards – High Complexity	13127H
	Bidder's Product Description: Add/Delete Router Boards – High Complexity Cisco 72xx, 73xx, 76xx, ASR1002 series routers or equivalent Juniper series routers.		
628	MRS Configuration Changes - Simple	AT&T Managed Router Solution Router Configuration Changes- Simple	14158S
	Bidder's Product Description: Simple Configuration changes will be performed as requested by Customer.		
629	MRS Configuration Changes -Complex	AT&T Managed Router Solution Router Configuration Changes - Complex	14158C
	Bidder's Product Description: Complex Configuration changes will be performed as requested by Customer.		
630	Site Insufficiently Prepared Vendor Turn-Away	Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away	14570
	Bidder's Product Description: Site Insufficiently Prepared to Receive On-Site Services / Vendor Turn-Away		

	Feature Name	Feature Description	Bidder's Product Identifier
631	Cancellation Less than Five Bus Days	Cancellation to Receive On-Site Services with Less than Five Business Days' notice to AT&T	13109A
	Bidder's Product Description: Cancellation to Receive On-Site Services with Less than Five Business Days' notice to AT&T		
632	Site Delete for AT&T Provided Equipment	Site Delete for AT&T Provided Equipment. This product line item is for ordering purpose only and provided at no cost to the customer.	13119
	Bidder's Product Description: Site Delete for AT&T Provided Equipment. This product line item is for ordering purpose only and provided at no cost to the customer.		
633	MRS Support Stand Hrs	MRS Supplementary Professional, Engineering and Technical Services Standard Hours (8am – 5pm local time)	13109B
	Bidder's Product Description: AT&T will provide supplementary engineering and technical activities, including but not limited to network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon changes These activities will be defined on a per Customer basis (detailed Scope of Work required) and will be priced according to the Professional services rates and charges as defined in the Pricing Schedule, in the section entitled "Supplementary Professional, Engineering and Technical Services."		
634	MRS Support Non-Stand Hrs	MRS Supplementary Professional, Engineering and Technical Services Non-Standard Hours	13109D
	Bidder's Product Description: AT&T will provide supplementary engineering and technical activities, including but not limited to network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) and will be priced according to the Professional services rates and charges as defined in the Pricing Schedule, in the section entitled "Supplementary Professional, Engineering and Technical Services."		
635	MRS (POTS) Dial Backup Manage	AT&T Managed Router Solution Analog (POTS) Dial Backup Management	13060A
	Bidder's Product Description: The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial backup features require Customer to obtain ISDN line (BRI or PRI) or Analog Dial line. Analog dial backup provides for individual telephone lines at remote sites to access a dial line at speeds up to 56k in case of primary transport failure. HUB sites may be configured with multiple, bonded analog lines to backup the primary transport in increments of 56k.		

	Feature Name	Feature Description	Bidder's Product Identifier
636	MRS (BRI) Dial Backup Manage	AT&T Managed Router Solution ISDN Basic Rate Interface (BRI) Dial Backup Management	13060B
	Bidder's Product Description: The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial backup features require Customer to obtain ISDN line (BRI or PRI) or Analog Dial line. BRI ports for ISDN may be added to a site router. Up to 4 BRI ports per site router are allowed, subject to capability constraints of the site router.		
637	MRS (PRI) Dial Backup Manage	AT&T Managed Router Solution ISDN Primary Rate Interface (PRI) Dial Backup Management	13060C
	Bidder's Product Description: The Dial Backup feature offers Customers the ability to backup their primary Wide Area Network (WAN) circuits with secondary switched circuits in order to protect against network and/or access failures. The managed ISDN and Analog Dial backup features require Customers to obtain ISDN line (BRI or PRI) or Analog Dial line. PRI port for ISDN may be added to a site router, subject to capability constraints of the site router.		
638	MRS TACACS Read Only Access - Router	AT&T Managed Router Solution TACACS Read Only Access – Router Enablement	TACE
	Bidder's Product Description: TACACS (Terminal Access Controller Access Control System) Read Only Access Provides secure remote access to AT&T Managed router using an authentication protocol that allows a remote (customer) access server to forward a customer user's logon password to an AT&T server to determine whether access can be allowed to a router.		
639	MRS TACACS Read Only Access - Support	AT&T Managed Router Solution TACACS Read Only Access - Support	TACS
	Bidder's Product Description: TACACS (Terminal Access Controller Access Control System) Read Only Access Provides secure remote access to AT&T Managed router using an authentication protocol that allows a remote (customer) access server to forward a customer user's logon password to an AT&T server to determine whether access can be allowed to a router.		
640	MRS TACACS Read Only Access - 1 to 6	AT&T Managed Router Solution TACACS Read Only Access – Enablement 1 to 6 Enabled Employees	TACACS1

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information. *TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.		
641	MRS TACACS Read Only Access - 7 to 12	AT&T Managed Router Solution TACACS Read Only Access – Enablement 7 to 12 Enabled Employees	TACACS2
	Bidder's Product Description: A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information. *TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.		
642	MRS TACACS Read Only Access - 13 to 25	AT&T Managed Router Solution TACACS Read Only Access – Enablement 13 to 25 Enabled Employees	TACACS3
	Bidder's Product Description: A user will be authorized to execute simple router commands, extended ping, extended trace route, show tech-support commands to view basic router features, interface status and router configuration information. *TACACS Read Only Access is not available for more than 25 Enabled Employees for a defined customer entity.		
	MRS Optional Services	Managed Router Solution (MRS) Optional Services for MRS managed routers bundles offered in 1.2.2.8.1, 1.2.2.8.3 – 1.2.2.8.7.	Multiple IDs (see below)
	Bidder's Product Description: Managed router Solution (MRS) Router hardware, software, and supporting equipment. Upgrades for AT&T owned and managed routers offered in 1.2.2.8.1, 1.2.2.8.3 – 1.2.2.8.7. Upgrades are AT&T owned and include maintenance.		
643	Data IOS Svc Cisco 19XX	Data IOS Service for Cisco 19XX Series managed router feature upgrade	MRU01
	Bidder's Product Description: Data IOS Service for Cisco 19XX Series managed router feature upgrade		
	Security IOS Svc Cisco 19XX	Security IOS Service for Cisco 19XX Series managed router feature upgrade	MRU02

	Feature Name	Feature Description	Bidder's Product Identifier
644	Bidder's Product Description: Security IOS Service for Cisco 19XX Series managed router feature upgrade		
645	Data IOS Svc Cisco 29XX	Data IOS Service for Cisco 29XX Series managed router feature upgrade	MRU03
	Bidder's Product Description: Data IOS Service for Cisco 29XX Series managed router feature upgrade		
646	Security IOS Svc Cisco 29XX	Security IOS Service for Cisco 29XX Series managed router feature upgrade	MRU04
	Bidder's Product Description: Security IOS Service for Cisco 29XX Series managed router feature upgrade		
647	Data IOS Svc Cisco 39XX	Data IOS Service for Cisco 39XX Series managed router feature upgrade	MRU05
	Bidder's Product Description: Data IOS Service for Cisco 29XX Series managed router feature upgrade		
648	Security IOS Svc Cisco 39XX	Security IOS Service for Cisco 39XX Series managed router feature upgrade	MRU06
	Bidder's Product Description: Security IOS Service for Cisco 39XX Series managed router feature upgrade		
649	Adv Ent IOS Svc ASR 1000 Series	Adv Ent IOS Service for DLSw and IPSEC Cisco ASR 1000 Series RP1 managed router feature upgrade	MRU07
	Bidder's Product Description: Adv Ent IOS Service for DLSw and IPSEC Cisco ASR 1000 Series RP1 managed router feature upgrade		
650	2 - Port SPA Svc Cisco ASR 1000 Module	Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade	MRU10
	Bidder's Product Description: Copper SFP - SX Cisco 2-Port Gigabit Ethernet Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade		
	4 - Port SPA Svc Cisco ASR 1000	100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade	MRU11

	Feature Name	Feature Description	Bidder's Product Identifier
651	Bidder's Product Description: 100M Ethernet Cisco 4-Port Fast Ethernet (TX) Shared Port Adapter (SPA) Service for ASR1000 series managed router feature upgrade		
	LX/LH SFP Svc	GE SFP, LC connector LX/LH transceiver Service managed router feature upgrade	MRU12
652	Bidder's Product Description: GE Small Form Factor Pluggable (SFP), LC connector LX/LH transceiver managed router feature upgrade		
	SX SFP Svc	GE SFP, LC connector SX transceiver Service managed router feature upgrade	MRU13
653	Bidder's Product Description: GE Small Form Factor Pluggable (SFP), LC connector SX transceiver Service managed router feature upgrade		
	1000 Base-T SFP Svc	1000 BASE-T SFP Service managed router feature upgrade	MRU14
654	Bidder's Product Description: 1000 BASE-T Small Form Pluggable (SFP) Service managed router feature upgrade		
	1--port 10/100 HWIC Svc	1-port 10/100 Routed Port HWIC Service managed router feature upgrade	MRU15
655	Bidder's Product Description: 1-port 10/100 Routed Port HWIC Service managed router feature upgrade		
	GigE WIC Svce	GigE high speed WIC Service managed router feature upgrade	MRU16
656	Bidder's Product Description: GigE high speed HWIC Service managed router feature upgrade		
	1-Portl WAN Svc	1-Port Serial WAN Interface Card Service managed router feature upgrade	MRU17
657	1-Port Serial WAN Interface Card Service managed router feature upgrade		
	COS switch Svc	COS device 4 port COS switch Service managed router feature upgrade	MRU22
658	Bidder's Product Description: COS device 4 port COS switch Service managed router feature upgrade		

	Feature Name	Feature Description	Bidder's Product Identifier
	OOB COS4 Cable Svc	Cable from: OOB modem to: COS/4 Service managed router feature upgrade	MRU24
659	Bidder's Product Description: Cable from: OOB modem to: COS/4 Service managed router feature upgrade		
	Console COS4 Cable Svc	Cable from: CO to: Router's Console Port (DB25M-RJ45, 10ft.) Service managed router feature upgrade	MRU25
660	Bidder's Product Description: Cable from: CO to: Router's Console Port (DB25M-RJ45, 10ft.) Service managed router feature upgrade		
	SC-SC MMF15 Cable Svc	SC type to SC type MMF 62.5 micron 15' for WS-G5484 modules Service managed router feature upgrade	MRU26
661	Bidder's Product Description: SC type to SC type MMF 62.5 micron 15' for WS-G5484 modules Service managed router feature upgrade		
	Dual Mode EHWIC Svc	EHWIC 1 port dual mode SFP(100M/1G) or GE(10M/100M/1G) Service	MRU27
662	Bidder's Product Description: EHWIC 1 port dual mode SFP(100M/1G) or GE(10M/100M/1G) Service		
	39xx Power Supply Svc	Cisco 3925/3945 AC Power Supply (Secondary PS) Service	MRU28
663	Bidder's Product Description: Cisco 3925/3945 AC Power Supply (Secondary PS) Service		
	LC-LC SM 125 3M Cable Svc	Cable from: router's intf (LC) to: Ntwk intf (LC) Fiber SM, 125mm 3M Service	MRU29
664	Bidder's Product Description: Cable from: router's intf (LC) to: Ntwk intf (LC) Fiber SM, 125mm 3M Service		
	LC-LC SM 62.5 Cable Svc	Cable from: router intf (LC) to: Ntwk intf (LC) Fiber MM 62.5mm DPLX , 3M Service	MRU30
665	Bidder's Product Description: Cable from: router intf (LC) to: Ntwk intf (LC) [Fiber MM 62.5mm DPLX , 3M] Service		

	Feature Name	Feature Description	Bidder's Product Identifier
666	GE XO Cable Svc	Cable from: router GigE (X-over) to: GigE (RJ45 TO RJ45 X-OVER) Service	MRU31
	Bidder's Product Description: Cable from: router GigE (X-over) to: GigE (RJ45 TO RJ45 X-OVER) Service		
667	LC-ST MM Cable Svc	Cable from: Router GE to: Ntwk Fiber intf (LC-ST, MM, Duplex, OFNP) Service	MRU32
	Bidder's Product Description: Cable from: Router GE to: Ntwk Fiber intf (LC-ST, MM, Duplex, OFNP) Service		
668	LC-SC MM Cable Svc	Cable from: Router GE to: Ntwk Fiber intf (LC-SC, MM, Duplex, OFNP) Service	MRU33
	Bidder's Product Description: Cable from: Router GE to: Ntwk Fiber intf (LC-SC, MM, Duplex, OFNP) Service		
669	T1 20 Cable Svc	Cable from: router's T1 intf. to: Ntwk intf (RJ45-RJ45, 20ft.) ISE-693-020 Service	MRU34
	Bidder's Product Description: Cable from: router's T1 intf. to: Ntwk intf (RJ45-RJ45, 20ft.)ISE-693-020 Service		
670	SS-V35 Cable Svc	Cable from: Router's Smart Serial 26 pin intf to: V.35 PTT provided CSU/DSU (CAB-SS-V35M, 10ft.) Service	MRU35
	Bidder's Product Description: Cable from: Router's Smart Serial 26 pin intf to: V.35 PTT provided CSU/DSU (CAB-SS-V35M, 10ft.) Service		
671	2-FE HWIC Svc	2-Port Fast Ethernet Routed High-Speed WAN interface cards (HWICs) Service	MRU36
	Bidder's Product Description: 2-Port Fast Ethernet Routed High-Speed WAN interface cards (HWICs) Service		
672	1000BASE-SX SFP Svc	1000BASE-SX SFP transceiver module for MMF, 850-nm wavelength Service	MRU39
	Bidder's Product Description: 1000BASE-SX SFP transceiver module for MMF, 850-nm wavelength Service		

	Feature Name	Feature Description	Bidder's Product Identifier
	1000BASE-ZX SFP Svc	GLC-ZX-SM: 1000BASE-ZX Small Form Factor Pluggable (SFP) Service	MRU41
673	Bidder's Product Description: GLC-ZX-SM: 1000BASE-ZX Small Form Factor Pluggable (SFP) Service		
	HWIC-1T Svc	HWIC-1T: 1-Port Serial WAN Interface Card Service	MRU42
674	Bidder's Product Description: HWIC-1T: 1-Port Serial WAN Interface Card Service		
	HWIC-2T Svc	HWIC-2T: 2-Port Serial WAN Interface Card Service	MRU43
675	Bidder's Product Description: HWIC-2T: 2-Port Serial WAN Interface Card Service		
	1-Port VWIC3 Svc	1-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - G.703 Service	MRU44
676	Bidder's Product Description: 1-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - G.703 Service		
	2-Port VWIC3 Svc	2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - G.703 Service	MRU45
677	Bidder's Product Description: 2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - G.703 Service		
	OC12 SPA Svc	1-port OC12/STM4 POS Shared Port Adapters (SPA) Service	MRU47
678	Bidder's Product Description: 1-port OC12/STM4 POS Shared Port Adapters (SPA) Service		
	OC12 SFP Svc	OC-12/ STM-4 Small Form Factor Pluggable (SFP), Multi-mode Fiber	MRU48
679	Bidder's Product Description: OC-12/ STM-4 SFP, Multi-mode Fiber Small Form Factor Pluggable (SFP) Service		
	OC12 SR SFP Svc	OC12/STM4 Small Form Factor Pluggable (SFP), SM Short Reach Service	MRU49

	Feature Name	Feature Description	Bidder's Product Identifier
680	Bidder's Product Description: OC12/STM4 Small Form Factor Pluggable (SFP), SM Short Reach Service		
681	OC12 IR SFP Svc	OC-12/ STM- Small Form Factor Pluggable (SFP), Intermediate Reach (15km) Service	MRU50
	Bidder's Product Description: SFP-OC12-IR1 OC-12/ STM-4 SFP, Intermediate Reach (15km) Service		
682	8-Port FE SPA Svc	SPA-8X1FE-TX-V2 Cisco 8-Port Fast Ethernet (TX) Shared Port Adapter (SPA) Service	MRU51
	Bidder's Product Description: SPA-8X1FE-TX-V2 Cisco 8-Port Fast Ethernet (TX) Shared Port Adapter (SPA) Service		
683	T3 SPA Svc	SPA-2XT3/E3-V22-port Clear Channel T3/E3 Shared Port Adapter (SPA) Service	MRU52
	Bidder's Product Description: SPA-2XT3/E3-V22-port Clear Channel T3/E3 Shared Port Adapter (SPA) Service		
684	4G EHWIC Svc	EHWIC-4G-LTE-A 4G LTE EHWIC for ATT, 700 MHz Band 17 / HSPA+ Service	MRU53
	Bidder's Product Description: EHWIC-4G-LTE-A 4G LTE EHWIC for ATT, 700 MHz Band 17 / HSPA+ Service		
685	39xx Security Svc	FL-39-HSEC-K9 U.S. Export Restriction Compliance Security license for 3900 series	MRU55
	Bidder's Product Description: FL-39-HSEC-K9 U.S. Export Restriction Compliance Security license for 3900 series		
686	4320 Security Svc	SL-4320-SEC-K9 Security License Service for Cisco ISR 4320 Series	MRU57
	Bidder's Product Description: SL-4320-SEC-K9 Security License Service for Cisco ISR 4320 Series		
	4330 Security Svc	SL-4330-SEC-K9 Security License Service for Cisco ISR 4330 Series	MRU58

	Feature Name	Feature Description	Bidder's Product Identifier
687	Bidder's Product Description: SL-4330-SEC-K9 Security License Service for Cisco ISR 4330 Series		
688	4330E Security Svc	FL-4330-HSEC-K9 U.S. Export Restriction Compliance license Service for 4330 series	MRU59
	Bidder's Product Description: FL-4330-HSEC-K9 U.S. Export Restriction Compliance Service license for 4330 series		
689	4350 Security Svc	SL-4350-SEC-K9 Security License Service for Cisco ISR 4350 Series	MRU60
	Bidder's Product Description: SL-4350-SEC-K9 Security License Service for Cisco ISR 4350 Series		
690	4350E Security License	FL-4350-HSEC-K9 U.S. Export Restriction Compliance license Service for 4350 series	MRU61
	Bidder's Product Description: FL-4350-HSEC-K9 U.S. Export Restriction Compliance license Service for 4350 series		
691	4400 Security Svc	SL-44-SEC-K9 Security License Service for Cisco ISR 4400 Series	MRU62
	Bidder's Product Description: SL-44-SEC-K9 Security License Service for Cisco ISR 4400 Series		
692	4400E Security Svc	FL-44-HSEC-K9 U.S. Export Restriction Compliance license Service for 4350 series	MRU63
	Bidder's Product Description: FL-44-HSEC-K9 U.S. Export Restriction Compliance license Service for 4350 series		
693	1GE NIM Svc	NIM-1GE-CU-SFP 1-port GE WAN NIM, dual-mode RJ45 & SFP Network Interface Module (NIM) Service	MRU64
	Bidder's Product Description: NIM-1GE-CU-SFP 1-port GE WAN NIM, dual-mode RJ45 & SFP Network Interface Module (NIM) Service		
	2GE NIM Svc	NIM-2GE-CU-SFP 2-port GE WAN NIM, dual-mode RJ45 & SFP Network Interface Module (NIM) Service	MRU65

	Feature Name	Feature Description	Bidder's Product Identifier
694	Bidder's Product Description: NIM-2GE-CU-SFP 2-port GE WAN NIM, dual-mode RJ45 & SFP Network Interface Module (NIM) Service		
695	6-Port WAN SM	SM-X module with 6-port dual-mode GE / SFP (not valid for 4321) WAN Service Module (SM) Service	MRU66
	Bidder's Product Description: SM-X module with 6-port dual-mode GE / SFP (not valid for 4321) WAN Service Module (SM) Service		
696	GLC-T SFP Svc	GLC-T 1000 BASE-T Small Form Factor Pluggable (SFP) Service	MRU67
	Bidder's Product Description: GLC-T 1000 BASE-T Small Form Factor Pluggable (SFP) Service		
697	4G NIM Svc	NIM-4G-LTE-NA 4G LTE Network Interface Module (NIM) Service for North America AT&T and Canada	MRU69
	Bidder's Product Description: NIM-4G-LTE-NA 4G LTE Network Interface Module (NIM) Service for North America AT&T and Canada		
698	4330 Power Supply Svc	PWR-4430-AC/2 AC Power Supply Service (Secondary PS) for Cisco ISR 4430	MRU70
	Bidder's Product Description: PWR-4430-AC/2 AC Power Supply Service (Secondary PS) for Cisco ISR 4430		
699	4450 Power Supply Svc	PWR-4450-AC/2 AC Power Supply Service (Secondary PS) for Cisco ISR 4450	MRU71
	Bidder's Product Description: PWR-4450-AC/2 AC Power Supply Service (Secondary PS) for Cisco ISR 4450		
	AT&T Managed Router Solution (MRS) - AT&T Owned and Managed Routers	AT&T Managed Router Solution (MRS)	Multiple - See Feature IDs below
	In support of MPLS other services AT&T offers a portfolio of AT&T owned and managed router as well as other equipment, as e.g. asynchronous modem used to diagnose and manage the router. That includes configuration, monitoring and maintenance.		

	Feature Name	Feature Description	Bidder's Product Identifier
700	MRS Router - Cisco 2911	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2911 with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 Ethernet or successor model. Supports up to 10 Mbps throughput.	C2911
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2911 with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 Ethernet or successor model. Supports up to 10 Mbps throughput		
701	MRS Router - Cisco 2921	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2921 with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 Ethernet or successor model. Supports up to 20 Mbps throughput.	C2921
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed Ethernet Configuration Cisco 2921 with 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 Ethernet or successor model. Supports up to 20 Mbps throughput.		
702	MRS Router - Cisco 3925	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 3925 with 3 onboard GE, C3900-SPE100/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 2 SM slots, 256MB CF default, 1 GB DRAM default, IP Base Cisco 3925 Ethernet or successor model. Supports up to 50 Mbps throughput.	C3925
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 3925 with 3 onboard GE, C3900-SPE100/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 2 SM slots, 256MB CF default, 1 GB DRAM default, IP Base Cisco 3925 Ethernet or successor model. Supports up to 50 Mbps throughput.		
703	MRS Router - Cisco 3945	AT&T owned and managed Router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Gigabit Ethernet Configuration: Cisco 3945 with 3 onboard GE, C3900-SPE150/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 4 SM slots, 256MB CF default, 1 GB DRAM default, IP Base. Cisco 3945 Ethernet or successor model. Supports up to 100 Mbps throughput.	C3945

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T owned and managed Router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Gigabit Ethernet Configuration: Cisco 3945 with 3 onboard GE, C3900-SPE150/K9, 4 EHWIC slots, 4 DSP slots, 1 ISM slot, 4 SM slots, 256MB CF default, 1 GB DRAM default, IP Base. Cisco 3945 Ethernet or successor model. Supports up to 100 Mbps throughput		
704	MRS Router - Cisco ASR1002	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco ASR1002 Chassis, 4 built-in GE, Dual P/S, 4GB DRAM, Cisco ASR1002 or successor model. Supports up to 1 Gbps throughput.	ASR1
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco ASR1002 Chassis, 4 built-in GE, Dual P/S, 4GB DRAM, Cisco ASR1002 or successor model. Supports up to 1 Gbps throughput.		
705	MRS Router - Cisco 7604	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 7604 Chassis, 4 slot -10GE, RSP720-3C,PS C7600 RSP720 Compact Flash Mem Dual PS, IP Base Cisco 7604 or successor model. Supports up to 10 Gbps throughput.	7604
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Cisco 7604 Chassis, 4 slot -10GE, RSP720-3C,PS C7600 RSP720 Compact Flash Mem Dual PS, IP Base Cisco 7604 or successor model. Supports up to 10 Gbps throughput.		
706	MRS Router - Cisco 1921	MRS Router - Cisco 1921 - T1 PPP or successor model .AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed T1 PPP. Cisco 1921 with HWIC-1DSU-T1, 2 onboard GE, 2 EHWIC slots, 256MB CF default, 512MB DRAM default, IP Base, Cisco 1921 or successor model. Supports up to 1.5 Mbps throughput	T1921
	Bidder's Product Description: Requires phone line provided separately for maintenance.		
707	MRS Router - Cisco 2911 - T1 PPP	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed T1 PPP. Cisco 2911 with HWIC-1DSU-T1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 1.5 Mbps throughput.	T2911

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed T1 PPP. Cisco 2911 with HWIC-1DSU-T1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 1.5 Mbps throughput.		
708	MRS Router - Cisco 2911 - 2xT1 PPP	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 2xT1 PPP Configuration Cisco 2911 with VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 3 Mbps throughput.	2T291
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 2xT1 PPP Configuration Cisco 2911 with VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 3 Mbps throughput.		
709	MRS Router - Cisco 2911 - 4xT1 PPP	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 2xT1 PPP Configuration Cisco 2911 with 2 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 3 Mbps throughput.	4T291
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 2xT1 PPP Configuration Cisco 2911 with 2 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2911 or successor model. Supports up to 3 Mbps throughput.		
710	MRS Router - Cisco 2921 - 6xT1 PPP	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 6xT1 PPP. Cisco 2921 with 3 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 or successor model	6T292
	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 6xT1 PPP. Cisco 2921 with 3 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 or successor model		

	Feature Name	Feature Description	Bidder's Product Identifier
	MRS Router - Cisco 2921 - 8xT1 PPP	AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 6xT1 PPP. Cisco 2921 with 4 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 or successor model	8T292
711	Bidder's Product Description: AT&T owned and managed router. Includes installation, configuration, life-cycle maintenance and diagnostic monitoring. Low speed 6xT1 PPP. Cisco 2921 with 4 VWIC3-2MFT-T1/E1, 3 onboard GE, 4 EHWIC slots, 3 DSP slots, 1 ISM slot, 256MB CF default , 512MB DRAM default, IP Base, Cisco 2921 or successor model		
	Applications Traffic Analyzer	Applications Traffic Analyzer	Multiple IDs - See listed below
	Bidder's Product Description: The ATA service is an analysis tool used to measure the detailed characteristics of designated applications traffic flows. This tool is made available through a dynamic reports-based engine accessed by the customer via BusinessDirect®. AT&T will provide to Customer the instructions and User IDs necessary to access AT&T BusinessDirect®, or, if applicable, add the ATA reporting feature to existing User IDs. AT&T's ATA Service consists of generating, collecting, sampling and reporting flow data at the router level. A flow is defined as a series of uni-directional packets with seven unique keys: the sampled IP protocol; the source and destination IP addresses; the source and destination ports (in the case of TCP and UDP traffic); the TOS byte; and the input logical Interface. ATA measures the detailed characteristics of each traffic flow and that information is then made available through dynamic reports based on combinations of these parameters, as well as Customer and network-specific parameters: e.g. breaking down traffic across all ATA-enabled ports of Customer's network facing AT&T, by application, the traffic for a given class of service and a given Source IP address. ATA provides an understanding of the traffic flows that traverse a network: it can be used for traffic engineering (e.g. CoS partitioning), traffic analysis, advanced troubleshooting, internal accounting, and security. ATA is available for use only on Underlying Services; that is, only on AT&T network managed services approved by AT&T for use with the APM Service. Approved Underlying Services are: • AT&T Enhanced Virtual Private Network Service ("Enhanced VPN"); • Managed AT&T VPN; • AT&T Managed Router Solution ("MRS"), Essential or Complete, using either IPeFR or AT&T VPN as transport. Not all Services' features or capabilities are fully compatible with APM, including for example but without limitation, VoIP, Multicast, IP v6, and CoS effectiveness. For instance, there may be service degradation risks to Customers using Voice over IP, including to VoEVPN Customers. All customers should carefully evaluate their network prior to ordering APM for use with potentially incompatible services.		

	Feature Name	Feature Description	Bidder's Product Identifier
712	ATA Device Set Up	ATA Device Set Up	ATA001
	Bidder's Product Description: ATA Device Set Up		
713	ATA Device Move, ADD, Change	ATA Device Move, ADD, Change	ATA002
	Bidder's Product Description: ATA Device Move, ADD, Change		
714	ATA Device Management - Small	ATA Device Management - Small	ATA003
	Bidder's Product Description: Up to and including 4xT1/E1, or up to a maximum of 8 Megabits for an Ethernet connection.		
715	ATA Device Management - Medium	ATA Device Management - Medium	ATA004
	Bidder's Product Description: Above 4xT1/E1, up to and including T3/E3/DS3, or up to a maximum of 50 Megabits for an Ethernet connection.		
716	ATA Device Management - Large	ATA Device Management - Large	ATA005
	Bidder's Product Description: Above T3/E3/DS3, up to and including OC3/STM-1, or up to a maximum of 200 Megabits for an Ethernet connection.		
	WAN Acceleration Service	WAN Acceleration Service	Multiple IDs – See listed below
	Bidder's Product Description: WAN Acceleration offers a hardware and software based solution to improve application performance by better utilization of WAN bandwidth. WAN Acceleration requires an approved Appliance at both ends of the network. Each customer must order a Central Manager device to configure and manage the WAN Acceleration service.		

	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T will configure each designated WAN Acceleration Appliance using either inline or Web Cache Control Protocol ("WCCP") WAN acceleration, at AT&T's option. For inline WAN acceleration, the Appliance is directly in line or in the path of the network traffic; all traffic flows through the acceleration Appliance, and is accelerated based on the configurations of the Appliance. For WCCP WAN acceleration, AT&T configures the Underlying Service routers with IP Access Control lists or other traffic redirect instructions designed to redirect select traffic to the acceleration Appliance. WAN Acceleration Service is available for use only on Underlying Services; that is, only on AT&T network managed services approved by AT&T for use with the APM Service. Approved Underlying Services are: • AT&T Enhanced Virtual Private Network Service ("Enhanced VPN"); • Managed AT&T VPN • AT&T Managed Router Solution ("MRS"), Essential or Complete, using either IPeFR or AT&T VPN as transport. Not all Services' features or capabilities are fully compatible with APM, including for example but without limitation, VoIP, Multicast, IP v6, and CoS effectiveness. For instance, there may be service degradation risks to Customers using Voice over IP, including to VoEVPN Customers. All customers should carefully evaluate their network prior to ordering APM for use with potentially incompatible services.		
	WAS AT&T Owned Cisco X74 Models	WAS AT&T Owned Cisco X74 Models	Multiple IDs – See listed below.
	Bidder's Product Description: WAS AT&T Owned Cisco X74 Models		
717	WAS- Small Site Appliance – Set up	WAS- Small Site Appliance – Set up	WAS001
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
718	WAS- Small Site Appliance – Management	WAS- Small Site Appliance – Management	WAS011
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
719	WAS - Small Site Network Module Card - Type 1 NM – Set up	WAS - Small Site Network Module Card - Type 1 NM – Set up	WAS002

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
720	WAS - Small Site Network Module Card - Type 1 NM – Management	WAS - Small Site Network Module Card - Type 1 NM – Management	WAS012
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
721	WAS - Small Site Network Module Card - Type 2 NM – Set Up	WAS - Small Site Network Module Card - Type 2 NM – Set Up	WAS003
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
722	WAS - Small Site Network Module Card - Type 2 NM – Management	WAS - Small Site Network Module Card - Type 2 NM – Management	WAS013
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
723	WAS - Small Site Network Module Card - Type 3 SRE – Set UP	WAS - Small Site Network Module Card - Type 3 SRE – Set UP	WAS004
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
724	WAS - Small Site Network Module Card - Type 3 SRE – Management	WAS - Small Site Network Module Card - Type 3 SRE – Management	WAS014
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
725	WAS - Small Site Network Module Card - Type 4 SRE – Set up	WAS - Small Site Network Module Card - Type 4 SRE – Set up	WAS005

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
726	WAS - Small Site Network Module Card - Type 4 SRE – Management	WAS - Small Site Network Module Card - Type 4 SRE – Management	WAS015
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
727	WAS - Medium Site – Set up	WAS - Medium Site – Set up	WAS006
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
728	WAS - Medium Site – Management	WAS - Medium Site – Management	WAS016
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
729	WAS - Large Site – Set Up	WAS - Large Site – Set Up	WAS007
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
730	WAS - Large Site - Management	WAS - Large Site - Management	WAS017
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
731	WAS - XL Data Center Site – Set Up	WAS - XL Data Center Site – Set Up	WAS008
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
732	WAS - XL Data Center Site – Management	WAS - XL Data Center Site – Management	WAS018
	Bidder's Product Description:		

	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T Owned Cisco X74 Models		
733	WAS - Central Manager – Set Up	WAS - Central Manager – Set Up	WAS009
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
734	WAS - Central Manager – Management	WAS - Central Manager – Management	WAS019
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
735	WAS - Move, Add, or Change	WAS - Move, Add, or Change	WAS010
	Bidder's Product Description: AT&T Owned Cisco X74 Models		
	WAS AT&T Owned Cisco X94 Models	WAS AT&T Owned Cisco X94 Models	Multiple IDs – See listed below.
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
736	WAS- Small Site Appliance – Set up	WAS- Small Site Appliance – Set up	WAS101
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
737	WAS - Small Site Appliance – Management	WAS - Small Site Appliance – Management	WAS111
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
738	WAS - Small Site Network Module Card - Type 5 (710) SRE – Set UP	WAS - Small Site Network Module Card - Type 5 (710) SRE – Set UP	WAS102

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
739	WAS - Small Site Network Module Card - Type 5 (710) SRE – Management	WAS - Small Site Network Module Card - Type 5 (710) SRE – Management	WAS112
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
740	WAS - Small Site Network Module Card - Type 6 (910) SRE – Set up	WAS - Small Site Network Module Card - Type 6 (910) SRE – Set up	WAS103
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
741	WAS - Small Site Network Module Card - Type 6 (910) SRE – Management	WAS - Small Site Network Module Card - Type 6 (910) SRE – Management	WAS113
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
742	WAS - Medium Site – Set up	WAS - Medium Site – Set up	WAS104
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
743	WAS - Medium Site – Management	WAS - Medium Site – Management	WAS114
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
744	WAS - Large Site – Set Up	WAS - Large Site – Set Up	WAS105
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		

	Feature Name	Feature Description	Bidder's Product Identifier
745	WAS - Large Site – Management	WAS - Large Site – Management	WAS115
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
746	WAS - XL Data Center Site – Set Up	WAS - XL Data Center Site – Set Up	WAS106
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
747	WAS - XL Data Center Site – Management	WAS - XL Data Center Site – Management	WAS116
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
748	WAS - Central Manager – Set Up	WAS - Central Manager – Set Up	WAS107
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
749	WAS - Central Manager – Management	WAS - Central Manager – Management	WAS117
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
750	WAS - Move, Add or Change	WAS - Move, Add or Change	WAS108
	Bidder's Product Description: WAS AT&T Owned Cisco X94 Models		
	WAS AT&T Owned Riverbed Devices	WAS AT&T Owned Riverbed Devices	Multiple IDs – See listed below.
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
751	WAS - Small Site Appliance - Type 1 – Set up	WAS - Small Site Appliance - Type 1 – Set up	WAS201

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
752	WAS - Small Site Appliance - Type 1 – Management	WAS - Small Site Appliance - Type 1 – Management	WAS211
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
753	WAS - Small Site Appliance - Type 2 – Set up	WAS - Small Site Appliance - Type 2 – Set up	WAS202
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
754	WAS - Small Site Appliance - Type 2 – Management	WAS - Small Site Appliance - Type 2 – Management	WAS212
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
755	WAS - Small Site Appliance - Type 3 – Set up	WAS - Small Site Appliance - Type 3 – Set up	WAS203
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
756	WAS - Small Site Appliance - Type 3 - Management	WAS - Small Site Appliance - Type 3 - Management	WAS213
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
757	WAS - Medium Site – Set up	WAS - Medium Site – Set up	WAS204
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
758	WAS - Medium Site – Management	WAS - Medium Site – Management	WAS214

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
759	WAS - Large Site – Set Up	WAS - Large Site – Set Up	WAS205
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
760	WAS - Large Site – Management	WAS - Large Site – Management	WAS215
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
761	WAS - XL Data Center Site – Set Up	WAS - XL Data Center Site – Set Up	WAS206
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
762	WAS - XL Data Center Site – Management	WAS - XL Data Center Site – Management	WAS216
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
763	WAS - Central Manager – Set Up	WAS - Central Manager – Set Up	WAS207
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
764	WAS - Central Manager – Management	WAS - Central Manager – Management	WAS217
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		
765	WAS - Move, Add or Change	WAS - Move, Add or Change	WAS208
	Bidder's Product Description: WAS AT&T Owned Riverbed Devices		

	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T Telepresence Solution - Hosted	AT&T Telepresence Solution - Hosted	Multiple (See feature IDs below)
	Bidder's Product Description: AT&T Telepresence Solution (ATS) is a managed and hosted video collaboration service that utilizes the AT&T VPN architecture. It provides a number of flexible options to meet a wide range of customer needs. The Hosted deployment option provides a fully managed solution with full call control and scheduling support in a cloud based solution. A second option is available for existing Telepresence locations where a fully managed bundle is not required and is called Gateway Connect. The Gateway Connect deployment option provides business to business calling capabilities for customer managed Telepresence room environments.		
	Cisco ATS Bundles	Cisco ATS Bundles	Multiple IDs (see below)
	Cisco ATS Bundles		
766	Managed ATS Service EX 60 - Desktop	Managed ATS Service EX 60 - Desktop	23124
	Bidder's Product Description: EX 60- Desktop monitor- full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity (Self Install)		
767	Managed ATS Service - EX90	Managed ATS Service - EX90	23125
	Bidder's Product Description: EX 90- Desktop monitor- full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity (Self Install)		
768	Managed ATS service - SX 20	Managed ATS service - SX 20	23549
	Bidder's Product Description: Managed ATS service-SX20 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
769	Managed ATS service - MX 200	Managed ATS service - MX 200	23527
	Bidder's Product Description: Managed ATS service-MX200 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity (Self Install)		

	Feature Name	Feature Description	Bidder's Product Identifier
770	Managed ATS service - MX 300	Managed ATS service - MX 300	23537
	Bidder's Product Description: Managed ATS service-MX300 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance,, Business Exchange connectivity (Self Install)		
771	Managed ATS service C40/42	Managed ATS service C40/42	23121
	Bidder's Product Description: Managed ATS service-C40/42 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
772	Managed ATS service C40/55	Managed ATS service C40/55	23603
	Bidder's Product Description: Managed ATS service-C40/55 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
773	Managed ATS Service - C60/65	Managed ATS Service - C60/65"	23119
	Bidder's Product Description: Managed ATS Service - C60/65 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
774	Managed ATS service - C60w55	Managed ATS service - C60w55	23583
	Bidder's Product Description: Managed ATS Service - C60w55 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
775	Managed ATS service - C60wDual55	Managed ATS service - C60wDual55	23593
	Bidder's Product Description: Managed ATS service - C60wDual55 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
776	Managed ATS Service - C90/Dual 65	Managed ATS Service - C90/Dual 65"	23123

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Managed ATS Service - C90/Dual 65" full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
777	Managed ATS Service - TX1310-65	Managed ATS Service - TX1310-65	23559
	Bidder's Product Description: Managed ATS service - TX1310-65 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
778	Managed ATS Service - TX 9000	TX 9000	23569
	Bidder's Product Description: Managed ATS service - TX9000- full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
779	Managed ATS Service - TX 9200	TX 9200	23576
	Bidder's Product Description: Managed ATS service - TX9200- full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
780	ATS Managed Service - EX SM Router- 2821	ATS Managed Service - EX SM Router- 2821- full bundle-equipment, implementation, installation, management, maintenance-supports 1-3 screens	23150
	Bidder's Product Description: ATS Managed Service - EX SM Router- 2821- full bundle-Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports 1-3 screens)		
781	ATS Managed Service - Small Router	ATS Managed Service - Small Router	23152
	Bidder's Product Description: ATS Managed Service - Small Router- full bundle- Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports 4-6 screens)		
782	ATS Managed Service - Large Router	ATS Managed Service - Large Router	23154

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: ATS Managed Service - Medium Router- full bundle- Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports 6-15 screens)		
783	ATS Managed Service - Small Switch	ATS Managed Service - Small Switch	23728
	Bidder's Product Description: ATS Managed Service - Small Switch - full bundle-Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports 1-3 screens)		
784	ATS Managed Service - Medium Switch	ATS Managed Service - Medium Switch	23723
	Bidder's Product Description: ATS Managed Service – Medium Switch - full bundle-Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports 4-6 screens)		
785	Switch/required for immersive	Switch/required for immersive	23158
	Bidder's Product Description: ATS Managed Service - Large Switch- full bundle-Equipment, Implementation, Installation, Management & 8x5 Maintenance (supports immersive video units)		
786	ATS Mgd Svc - VCS-Controller w/10 non-traversal	ATS Managed Service - VCS-Controller w/10 non-traversal	23224
	Bidder's Product Description: Fully bundled and managed ATS Managed VCS Controller w/10 non-traversal		
787	ATS Mgd Svc - TMS Medium Server	ATS Managed Service - TMS Medium Server	23261
	Bidder's Product Description: Fully bundled ATS Managed Service - TMS Medium Server		
788	ATS Mgd VCS Expressway w/5 traversal calls	ATS Mgd VCS Expressway w/5 traversal calls	23244
	Bidder's Product Description: Fully bundled ATS Managed Service- if customer requires a firewall- VCS-Expressway		

	Feature Name	Feature Description	Bidder's Product Identifier
789	ATS Mgd Svc - MSE 8000 - Chassis	ATS Mgd Service - MSE 8000 - Chassis	23164
	Bidder's Product Description: Full bundled ATS management service - Codian/ chassis		
790	ATS Mgd Svc - MSE 8000 8710/16 Server Blade	ATS Mgd Svc - MSE 8000 8710/16 Server Blade	23171
	Bidder's Product Description: Full bundled ATS management service - Codian/ server blade		
791	ATS Mgd Svc - MSE 8000 8710 Software Mgmnt	ATS Mgd Svc - MSE 8000 8710 Software management service	23174
	Bidder's Product Description: Full bundled ATS management service - Codian software management service.		
792	ATS Mgd Svc - ISDN 8321 Blade	ATS Mgd Service - ISDN 8321 Blade	23183
	Bidder's Product Description: Full bundled ATS management service - Codian ISDN blade		
793	ATS Mgd Service-ISDN 8321 Software Mgmnt	ATS Mgd Service-ISDN 8321 software management service per PRI up to 8 PRI ports on Blade	23186
	Bidder's Product Description: Full bundled ATS management service - Codian ISDN software management service.		
794	Usage sensitive billing per endpoint TX1310 (1) screen TP on-net usage	Usage sensitive billing per endpoint TX1310 (1) screen TP on-net usage	22728
	Bidder's Product Description: Usage sensitive billing per endpoint TX1310 (1) screen TP on-net usage		
795	Usage sensitive billing per endpoint TX9000 (3) screen TP on-net usage	Usage sensitive billing per endpoint TX9000 (3) screen TP on-net usage	22729

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Usage sensitive billing per endpoint TX9000 (3) screen TP on-net usage		
796	Bus Exch TP On-Net Unlimited-US 1 Screen	Bus Exch TP On-Net Unlimited-US 1 Screen	22734
	Bidder's Product Description: Bus Exchange TP On-Net Unlimited-US 1 Screen		
797	Bus Exch TP On-Net Unlimited-US 3 Screen	Bus Exch TP On-Net Unlimited-US 3 Screen	22735
	Bidder's Product Description: Bus Exchange TP On-Net Unlimited-US 3 Screen		
	Polycom ATS Bundles	Polycom ATS Bundles	Multiple IDs (see below)
	Bidder's Product Description: Polycom ATS Bundles		
798	Managed ATS service 4500 HDX	Managed ATS service 4500 HDX	23452
	Bidder's Product Description: Managed ATS service 4500 HDX full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity (Self Install)		
799	Managed ATS Service - HDX7000 Dual 50	Managed ATS Service - HDX7000 Dual 50	23664
	Bidder's Product Description: Managed ATS Service - HDX7000 Dual 50 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
800	Managed ATS Service - HDX7000 M-W-Single 50	Managed ATS Service - HDX7000 M-W-Single 50	23458
	Bidder's Product Description: Managed ATS Service - HDX7000 Media Wall-Single 50 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		

	Feature Name	Feature Description	Bidder's Product Identifier
801	Managed ATS Service - HDX8000 Executive D50	Managed ATS Service - HDX8000 Executive D50	23464
	Bidder's Product Description: Managed ATS Service - HDX8000 Executive D50 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
802	Managed ATS Service - HDX8000 Exec Single 65	Managed ATS Service - HDX8000 Exec Single 65	23676
	Bidder's Product Description: Managed ATS Service - HDX8000 Exec Single 65 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
803	Managed ATS Service - HDX8000 MediaWall	Managed ATS Service - HDX8000 MediaWall	23470
	Bidder's Product Description: Managed ATS Service - HDX8000 Media Wall full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
804	Managed ATS Service - HDX8000 Media S 50 Ped	Managed ATS Service - HDX8000 Media S 50 Ped	23670
	Bidder's Product Description: Managed ATS Service - HDX8000 Media S 50 Pedestal, full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
805	Managed ATS Service - HDX8000 Media Wall S50	Managed ATS Service - HDX8000 Media Wall S50	23682
	Bidder's Product Description: Managed ATS Service - HDX8000 Media Wall S50 full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
806	Managed ATS Service - OTX100 Compact	Managed ATS Service - OTX100 Compact	23476
	Bidder's Product Description: Managed ATS Service - OTX100 Compact full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		

	Feature Name	Feature Description	Bidder's Product Identifier
807	Managed ATS Service - OTX100 Standard	Managed ATS Service - OTX100 Standard	23482
	Bidder's Product Description: Managed ATS Service - OTX100 Standard full bundle includes Planning and Design, Equipment, Management & 8x5 Maintenance, Business Exchange connectivity		
808	Managed ATS Service - OTX300	Managed ATS Service - OTX300	23488
	Bidder's Product Description: Managed ATS Service - OTX300 full bundle includes PD, Equip, Mgt & 8x5 Maint bus exchange connectivity		
	ATS Customer Owned Equipment Management Services	ATS Customer Owned Equipment Management Services	Multiple IDs (see below)
	Bidder's Product Description: ATS Customer Owned Equipment Management-ATS can provide active management and Maintenance of Customer Owned Equipment		
809	Managed ATS Service COE-GRP 1	Managed ATS Service COE-GRP 1	22956
	Bidder's Product Description: Managed ATS Service Customer Owned Endpoints-GRP 1 (Multi-Screen Immersive units)		
810	ATS COE Set Up Endpoint Group 1	ATS COE Set Up Endpoint Group 1	23501
	Bidder's Product Description: ATS Customer Owned Endpoints Set Up Endpoint Group 1 (Multi-Screen Immersive units)		
811	Managed ATS Service COE-GRP 2	Managed ATS Service COE-GRP 2	22957
	Bidder's Product Description: Managed ATS Service Customer Owned Endpoints-Group 2 (Single Screen Immersive units)		
812	ATS COE Set Up Endpoint Group 2	ATS COE Set Up Endpoint Group 2	23503

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: ATS Customer Owned Endpoints Set Up Endpoint Group 2 (Single Screen Immersive units)		
813	COE managed Group 3 endpoint (C60)	COE managed Group 3 endpoint (C60)	22958
	Bidder's Product Description: Customer Owned Endpoints Managed Group 3 endpoint-active management for Customer Owned Endpoints (High Definition Single Codec)		
814	ATS COE Set Up Endpoint Group 3	ATS COE Set Up Endpoint Group 3	23504
	Bidder's Product Description: Group 3 endpoint set-up (High Definition Single Codec)		
815	EX 90 COE management wrapper- endpoint GRP 4	EX 90 COE management wrapper- endpoint GRP 4	22959
	Bidder's Product Description: ATS desktop Customer Owned Endpoints-Active management for Customer Owned Endpoints- Group 4 (Desktop Video Codecs)		
816	EX 90 Grp 4 set up end point	EX 90 Grp 4 set up end point	23505
	Bidder's Product Description: Group 4 endpoint set up (Desktop Video Codecs)		
817	Managed ATS Infrastructure COE - Grp 1	Managed ATS Infrastructure COE - Grp 1	22964
	Bidder's Product Description: Tandberg TP Server TS 7010, Tandberg MSE 8000, Polycom RMX, Tandberg VCS Control, Tandberg TMS w/server. Plus infrastructure upgrades for Group 1		
818	ATS COE Infrastructure Set Up- Grp 1	ATS COE Infrastructure Set Up- Grp 1	23506
	Bidder's Product Description: ATS Customer Owned Endpoints Infrastructure Set Up- Group 1 (Multi-Screen Immersive Codecs)		

	Feature Name	Feature Description	Bidder's Product Identifier
819	Managed ATS Infrastructure COE - Grp 3	Managed ATS Infrastructure COE - Grp 3	22984
	Bidder's Product Description: IP Gateway-3510, Codian ISDN Gateway, VCR 2210, VCS Expressway, Plus infrastructure upgrades for Group 3 (High Definition, Single Codec)		
820	ATS COE Infrastructure Set Up- Grp 3	ATS COE Infrastructure Set Up- Grp 3	23508
	Bidder's Product Description: ATS Customer Owned Endpoints Infrastructure Set Up- Group 3 (High Definition, Single Screen)		
	Business Exchange Connections	Business Exchange Connections	Multiple ID's (see below)
	Bidder's Product Description: Business Exchange Connections		
821	Business Exchange Connection US – 10 MB	Business Exchange Connection US – 10 MB	22737
	Bidder's Product Description: Business Exchange Connection US - 10MB		
822	Business Exchange Connection US – 20 MB	Business Exchange Connection US – 20 MB	22738
	Bidder's Product Description: Business Exchange Connection US – 20 MB		
823	Business Exchange Connection US – 30 MB	Business Exchange Connection US – 30 MB	22739
	Bidder's Product Description: Business Exchange Connection US – 30 MB		
824	Business Exchange Connection US - 40 MB	Business Exchange Connection US - 40 MB	22740

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Exchange Connection US - 40 MB		
825	Business Exchange Connection US - 50 MB	Business Exchange Connection US - 50 MB	22741
	Bidder's Product Description: Business Exchange Connection US - 50 MB		
826	Business Exchange Connection US – 60 MB	Business Exchange Connection US – 60 MB	22742
	Bidder's Product Description: Business Exchange Connection US – 60 MB		
827	Business Exchange Connection US - 70 MB	Business Exchange Connection US - 70 MB	22743
	Bidder's Product Description: Business Exchange Connection US - 70 MB		
828	Business Exchange Connection US - 80 MB	Business Exchange Connection US - 80 MB	22744
	Bidder's Product Description: Business Exchange Connection US - 80 MB		
829	Business Exchange Connection US - 90 MB	Business Exchange Connection US - 90 MB	22745
	Bidder's Product Description: Business Exchange Connection US - 90 MB		
830	Business Exchange Connection US - 100 MB	Business Exchange Connection US - 100 MB	22746
	Bidder's Product Description: Business Exchange Connection US - 100 MB		

	Feature Name	Feature Description	Bidder's Product Identifier
831	Business Exchange Connection US - 150 MB	Business Exchange Connection US - 150 MB	22747
	Bidder's Product Description: Business Exchange Connection US - 150 MB		
832	Business Exchange Connection US - 200 MB	Business Exchange Connection US - 200 MB	22748
	Bidder's Product Description: Business Exchange Connection US - 200 MB		
833	Business Exchange Connection US - 250 MB	Business Exchange Connection US - 250 MB	22749
	Bidder's Product Description: Business Exchange Connection US - 250 MB		
834	Business Exchange Connection US - 300 MB	Business Exchange Connection US - 300 MB	22750
	Bidder's Product Description: Business Exchange Connection US - 300 MB		
835	Business Exchange Connection US - 400 MB	Business Exchange Connection US - 400 MB	22751
	Bidder's Product Description: Business Exchange Connection US - 400 MB		
836	Business Exchange Connection US - 450 MB	Business Exchange Connection US - 450 MB	22752
	Bidder's Product Description: Business Exchange Connection US - 450 MB		
837	Business Exchange Connection US - 500 MB	Business Exchange Connection US - 500 MB	22753

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Business Exchange Connection US - 500 MB		
838	Business Exchange Connection US - 600 MB	Business Exchange Connection US - 600 MB	22754
	Bidder's Product Description: Business Exchange Connection US - 600 MB		
839	Business Exchange Connection US - 700 MB	Business Exchange Connection US - 700 MB	22755
	Bidder's Product Description: Business Exchange Connection US - 700 MB		
840	Business Exchange Connection US - 800 MB	Business Exchange Connection US - 800 MB	22756
	Bidder's Product Description: Business Exchange Connection US - 800 MB		
841	Business Exchange Connection US - 900 MB	Business Exchange Connection US - 900 MB	22757
	Bidder's Product Description: Business Exchange Connection US - 900 MB		
842	Business Exchange Connection US - 1000 MB	Business Exchange Connection US - 1000 MB	22758
	Bidder's Product Description: Business Exchange Connection US - 1000 MB		

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1.2.2.8.2. MPLS Port and Access Bundled Transport Speeds

Table 1.2.2.8.2.a, MPLS Port and Access Bundled Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS Transport DS1 Port & Access svc min. line 128 Kbps	Y		A7974
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 128 Kbps			
2	MPLS Transport DS1 Port & Access svc min. line 256 Kbps	Y		A7976
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 256 Kbps			
3	MPLS Transport DS1 Port & Access svc min. line 384 Kbps	Y		A7978
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 384 Kbps			
4	MPLS Transport DS1 Port & Access svc min. line 512 Kbps	Y		A7980
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 512 Kbps			
5	MPLS Transport DS1 Port & Access svc min. line 768 Kbps	Y		A7984
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 768 Kbps			
6	MPLS Transport DS1 Port & Access svc min. line 1.024 Mbps	Y		A7985
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 1.024 Mbps			
7	MPLS Transport DS1 Port & Access svc min. line 1.544 Mbps	Y		A7986
	Bidder's Product Description: AT&T VPN DS1 port and access bundle - 1.544 Mbps			
8	MPLS Transport NxDS1 Port & Access svc min. line 3.088 Mbps	Y		A7990
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 3.088 Mbps			
9	MPLS Transport NxDS1 Port & Access svc min. line 4.632 Mbps	Y		A7992
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 4.632 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
10	MPLS Transport NxDS1 Port & Access svc min. line 6.176 Mbps	Y		A7994
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 6.176 Mbps			
11	MPLS Transport NxDS1 Port & Access svc min. line 7.720 Mbps	Y		A7996
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 7.720 Mbps			
12	MPLS Transport NxDS1 Port & Access svc min. line 9.264 Mbps	Y		A7998
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 9.264 Mbps			
13	MPLS Transport DS3 Port & Access svc min. line 10 Mbps	Y		A7999
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 10 Mbps			
14	MPLS Transport NxDS1 Port & Access svc min. line 12.352 Mbps	Y		A8003
	Bidder's Product Description: AT&T VPN NxDS1 port and access bundle – 12.352 Mbps			
15	MPLS Transport DS3 Port & Access svc min. line 15 Mbps	Y		A8005
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 15 Mbps			
16	MPLS Transport DS3 Port & Access svc min. line 20 Mbps	Y		A8007
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 20 Mbps			
17	MPLS Transport DS3 Port & Access svc min. line 25 Mbps	Y		A8008
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 25 Mbps			
18	MPLS Transport DS3 Port & Access svc min. line 30 Mbps	Y		A8009
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 30 Mbps			
19	MPLS Transport DS3 Port & Access svc min. line 45 Mbps	Y		A8013

	Requirement	Bidder Agrees? Y N	Bidder's Product Identifier
	Bidder's Product Description: AT&T VPN DS3 port and access bundle – 45 Mbps		

The Contractor may offer additional unsolicited MPLS Port and Access Bundled Transport Speeds in Table 1.2.2.8.2.b.

Table 1.2.2.8.2.b Unsolicited MPLS Port and Access Bundled Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	MPLS Broadband Port and Access 2 Mbps	MPLS Broadband Port and Access 2 Mbps	90115
	Bidder's Product Description: MPLS Broadband Port and Access 2 Mbps		
2	MPLS Broadband Port and Access 3 Mbps	MPLS Broadband Port and Access 3 Mbps	90116
	Bidder's Product Description: MPLS Broadband Port and Access 3 Mbps		
3	MPLS Broadband Port and Access 4 Mbps	MPLS Broadband Port and Access 4 Mbps	90117
	Bidder's Product Description: MPLS Broadband Port and Access 4 Mbps		
4	MPLS Broadband Port and Access 6 Mbps	MPLS Broadband Port and Access 6 Mbps	90118
	Bidder's Product Description:		

	Feature Name	Feature Description	Bidder's Product Identifier
	MPLS Broadband Port and Access 6 Mbps		
5	MPLS Broadband Port and Access 12 Mbps	MPLS Broadband Port and Access 12 Mbps	90119
	Bidder's Product Description: MPLS Broadband Port and Access 12 Mbps		
6	MPLS Broadband Port and Access 18 Mbps	MPLS Broadband Port and Access 18 Mbps	90120
	Bidder's Product Description: MPLS Broadband Port and Access 18 Mbps		
7	MPLS Broadband Port and Access 24 Mbps	MPLS Broadband Port and Access 24 Mbps	90121
	Bidder's Product Description: MPLS Broadband Port and Access 24 Mbps		
8	MPLS Broadband Port and Access 45 Mbps	MPLS Broadband Port and Access 45 Mbps	90122
	Bidder's Product Description: MPLS Broadband Port and Access 45 Mbps		

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1.2.2.8.3 MPLS Port, Access and Router Bundled Transport Speeds

Table 1.2.2.8.3.a, MPLS Port, Access and Router Bundled Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS Transport DS1 port, access & router bundled svc min. line 128 Kbps	Y		AM002
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 128 Kbps			
2	MPLS Transport DS1 port, access & router bundled srvc min. line 384 Kbps	Y		AM003
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 384 Kbps			
3	MPLS Transport DS1 port, access & router bundled svc min. line 512 Kbps	Y		AM004
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 512 Kbps			
4	MPLS Transport DS1 port, access & router bundled svc min. line 768 Kbps	Y		AM005
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 768 Kbps			
5	MPLS Transport DS1 port, access & router bundled svc min. line 1.024 Mbps	Y		AM006
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 1.024 Mbps			
6	MPLS Transport DS1 port, access & router bundled svc min. line 1.544 Mbps	Y		AM007
	Bidder's Product Description: AT&T VPN DS1 port, access and router bundle - 1.544 Mbps			
7	MPLS Transport NxDS1 port, access & router bundled svc min. line 3.088 Mbps	Y		AM008
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 3.088 Mbps			
8	MPLS Transport NxDS1port, access & router bundled svc min. line 4.362 Mbps	Y		AM009
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 4.362 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
9	MPLS Transport NxDS1port, access & router bundled svc min. line 5 Mbps	Y		AM010
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 5 Mbps			
10	MPLS Transport NxDS1 port, access & router bundled svc min. line 6.176 Mbps	Y		AM013
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 6.176 Mbps			
11	MPLS Transport NxDS1 port, access & router bundled svc min. line 7.720 Mbps	Y		AM011
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 7.720 Mbps			
12	MPLS Transport NxDS1 port, access & router bundled svc min. line 9.264 Mbps	Y		AM012
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 9.264 Mbps			
13	MPLS Transport NxDS1 port, access & router bundled svc min. line 12.352 Mbps	Y		AM014
	Bidder's Product Description: AT&T VPN NxDS1 port, access and router bundle – 12.352 Mbps			
14	MPLS Transport DS3 port, access & router bundled svc min. line 10 Mbps	Y		AM015
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 10 Mbps			
15	MPLS Transport DS3 port, access & router bundled svc min. line 15 Mbps	Y		AM016
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 15 Mbps			
16	MPLS Transport DS3 port, access & router bundled svc min. line 20 Mbps	Y		AM017
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 20 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
17	MPLS Transport DS3 port, access & router bundled svc min. line 25 Mbps	Y		AM018
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 25 Mbps			
18	MPLS Transport DS3 port, access & router bundled svc min. line 30 Mbps	Y		AM019
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 30 Mbps			
19	MPLS Transport DS3 port, access & router bundled svc min. line 40 Mbps	Y		AM020
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 40 Mbps			
20	MPLS Transport DS3 port, access & router bundled svc min. line 45 Mbps	Y		AM021
	Bidder's Product Description: AT&T VPN DS3 port, access and router bundle - 45 Mbps			

The Contractor may offer additional unsolicited MPLS Port, Access and Router Bundled Transport Speeds in Table 1.2.2.8.3.b.

Table 1.2.2.8.3.b Unsolicited MPLS Port, Access and Router Bundled Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		

1.2.2.8.4 MPLS Port, Access and Router Bundled On-Net Transport Speeds

Table 1.2.2.8.4.a, MPLS Port, Access and Router Bundled On-Net Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS port, access & router on-net Transport svc at min. line 155 Mbps (OC3)	Y		AM101
	Bidder's Product Description: AT&T VPN OC3 port, access and router bundle - 155 Mbps			

	Requirement	Bidder Agrees? Y N		Bidder's Product Identifier
2	MPLS port, access & router on-net Transport svc at min. line 625 Mbps (OC12)	Y		AM102
	Bidder's Product Description: AT&T VPN OC12 port, access and router bundle - 622 Mbps			
3	MPLS port, access & router on-net Transport svc at min. line 2.5 Gbps (OC48)	Y		AM103
	Bidder's Product Description: AT&T VPN OC48 port, access and router bundle - 2.5 Gbps			
4	MPLS port, access & router on-net Transport svc at min. line 10 Gbps (OC192)	Y		AM104
	Bidder's Product Description: AT&T VPN OC192 port, access and router bundle - 10 Gbps			

The Contractor may offer additional unsolicited MPLS Port, Access and Router Bundled On-Net Transport Speeds in Table 1.2.2.8.4.b.

Table 1.2.2.8.4.b Unsolicited MPLS Port, Access and Router Bundled On-Net Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		

1.2.2.8.5 MPLS Port, Access and Router Bundled Off-Net Transport Speeds

Table 1.2.2.8.5.a, MPLS Port, Access and Router Bundled Off-Net Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS port, access & router off-net Transport svc min. line 155 Mbps (OC3)	Y		AM201
	Bidder's Product Description: AT&T VPN OC3 port, access and router bundle - 155 Mbps			
2	MPLS port, access & router off-net Transport svc min. line 625 Mbps (OC12)	Y		AM202
	Bidder's Product Description: AT&T VPN OC12 port, access and router bundle - 622 Mbps			
3	MPLS port, access & router off-net Transport svc min. line 2.5 Gbps (OC48)	Y		AM203
	Bidder's Product Description: AT&T VPN OC48 port, access and router bundle - 2.5 Gbps			
4	MPLS port, access & router off-net Transport svc at min. line 10 Gbps (OC192)	Y		AM204
	Bidder's Product Description: AT&T VPN OC192 port, access and router bundle - 10 Gbps			

The Contractor may offer additional unsolicited MPLS Port, Access and Router Bundled Off-Net Transport Speeds in Table 1.2.2.8.5.b.

Table 1.2.2.8.5.b Unsolicited MPLS Port, Access and Router Bundled Off-Net Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		

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1.2.2.8.6 MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds

Table 1.2.2.8.6.a, MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS port, access & router Eth on-net Transport svc min. line 1 Mbps	Y		AE101
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 1 Mbps			
2	MPLS port, access & router Eth on-net Transport svc min. line 2 Mbps	Y		AE102
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2 Mbps			
3	MPLS port, access & router Eth on-net Transport svc min. line 3 Mbps	Y		AE103
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3 Mbps			
4	MPLS port, access & router Eth on-net Transport svc min. line 4 Mbps	Y		AE104
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4 Mbps			
5	MPLS port, access & router Eth on-net Transport svc min. line 5 Mbps	Y		AE105
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 5 Mbps			
6	MPLS port, access & router Eth on-net Transport svc min. line 6 Mbps	Y		AE106
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6 Mbps			
7	MPLS port, access & router Eth on-net Transport svc min. line 7 Mbps	Y		AE107
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7 Mbps			
8	MPLS port, access & router Eth on-net Transport svc min. line 8 Mbps	Y		AE108
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
9	MPLS port, access & router Eth on-net Transport svc min. line 9 Mbps	Y		AE109
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 9 Mbps			
10	MPLS port, access & router Eth on-net Transport svc min. line 10 Mbps	Y		AE110
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 10 Mbps			
11	MPLS port, access & router Eth on-net Transport svc min. line 20 Mbps	Y		AE111
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 20 Mbps			
12	MPLS port, access & router Eth on-net Transport svc min. line 30 Mbps	Y		AE112
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 30 Mbps			
13	MPLS port, access & router Eth on-net Transport svc min. line 40 Mbps	Y		AE113
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 40 Mbps			
14	MPLS port, access & router Eth on-net Transport svc min. line 50 Mbps	Y		AE114
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 50 Mbps			
15	MPLS port, access & router Eth on-net Transport svc min. line 60 Mbps	Y		AE115
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 60 Mbps			
16	MPLS port, access & router Eth on-net Transport svc min. line 70 Mbps	Y		AE116
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 70 Mbps			
17	MPLS port, access & router Eth on-net Transport svc min. line 80 Mbps	Y		AE117
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 80 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
18	MPLS port, access & router Eth on-net Transport svc min. line 90 Mbps	Y		AE118
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 90 Mbps			
19	MPLS port, access & router Eth on-net Transport svc min. line 100 Mbps	Y		AE119
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 100 Mbps			
20	MPLS port, access & router Eth on-net Transport svc min. line 150 Mbps	Y		AE120
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 150 Mbps			
21	MPLS port, access & router Eth on-net Transport svc min. line 200 Mbps	Y		AE121
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 200 Mbps			
22	MPLS port, access & router Eth on-net Transport svc min. line 250 Mbps	Y		AE122
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 250 Mbps			
23	MPLS port, access & router Eth on-net Transport svc min. line 300 Mbps	Y		AE123
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 300 Mbps			
24	MPLS port, access & router Eth on-net Transport svc min. line 400 Mbps	Y		AE124
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 400 Mbps			
25	MPLS port, access & router Eth on-net Transport svc min. line 450 Mbps	Y		AE125
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 450 Mbps			
26	MPLS port, access & router Eth on-net Transport svc min. line 500 Mbps	Y		AE126
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 500 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
27	MPLS port, access & router Eth on-net Transport svc min. line 600 Mbps	Y		AE127
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 600 Mbps			
28	MPLS port, access & router Eth on-net Transport svc min. line 700 Mbps	Y		AE128
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 700 Mbps			
29	MPLS port, access & router Eth on-net Transport svc min. line 800 Mbps	Y		AE129
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 800 Mbps			
30	MPLS port, access & router Eth on-net Transport svc min. line 900 Mbps	Y		AE130
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 900 Mbps			
31	MPLS port, access & router Eth on-net Transport svc min. line 1 Gbps	Y		AE131
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 1 Gbps			
32	MPLS port, access & router Eth on-net Transport svc min. line 2 Gbps	Y		AE132
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2 Gbps			
33	MPLS port, access & router Eth on-net Transport svc min. line 2.5 Gbps	Y		AE133
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2.5 Gbps			
34	MPLS port, access & router Etht on-net Transport svc min. line 3 Gbps	Y		AE134
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3 Gbps			
35	MPLS port, access & router Eth on-net Transport svc min. line 3.5 Gbps	Y		AE135
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3.5 Gbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
36	MPLS port, access & router Eth on-net Transport svc min. line 4 Gbps	Y		AE136
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4 Gbps			
37	MPLS port, access & router Eth on-net Transport svc min. line 4.5 Gbps	Y		AE137
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4.5 Gbps			
38	MPLS port, access & router Eth on-net Transport svc min. line 5 Gbps	Y		AE138
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 5 Gbps			
39	MPLS port, access & router Eth on-net Transport svc min. line 5.5 Gbps	Y		AE139
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 5.5 Gbps			
40	MPLS port, access & router Eth on-net Transport svc min. line 6 Gbps	Y		AE140
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6 Gbps			
41	MPLS port, access & router Eth on-net Transport svc min. line 6.5 Gbps	Y		AE141
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6.5 Gbps			
42	MPLS port, access & router Eth on-net Transport svc min. line 7 Gbps	Y		AE142
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7 Gbps			
43	MPLS port, access & router Eth on-net Transport svc min. line 7.5 Gbps	Y		AE143
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7.5 Gbps			
44	MPLS port, access & router Eth on-net Transport svc min. line 8 Gbps	Y		AE144
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8 Gbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
45	MPLS port, access & router Eth on-net Transport svc min. line 8.5 Gbps	Y		AE145
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8.5 Gbps			
46	MPLS port, access & router Eth on-net Transport svc min. line 9 Gbps	Y		AE146
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 9 Gbps			
47	MPLS port, access & router Eth on-net Transport svc min. line 9.5 Gbps	Y		AE147
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 9.5 Gbps			
48	MPLS port, access & router Eth on-net Transport svc min. line 10 Gbps	Y		AE148
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 10 Gbps			

The Contractor may offer additional unsolicited MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds in Table 1.2.2.8.6.b.

Table 1.2.2.8.6.b Unsolicited MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		

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1.2.2.8.7 MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds

Table 1.2.2.8.7.a, MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
1	MPLS port, access & router Eth off-net Transport svc min. line 1 Mbps	Y		AE201
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 1 Mbps			
2	MPLS port, access & router Eth off-net Transport svc min. line 2 Mbps	Y		AE202
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2 Mbps			
3	MPLS port, access & router Eth off-net Transport svc min. line 3 Mbps	Y		AE203
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3 Mbps			
4	MPLS port, access & router Eth off-net Transport svc min. line 4 Mbps	Y		AE204
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4 Mbps			
5	MPLS port, access & router Eth off-net Transport svc min. line 5 Mbps	Y		AE205
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 5 Mbps			
6	MPLS port, access & router Eth off-net Transport svc min. line 6 Mbps	Y		AE206
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6 Mbps			
7	MPLS port, access & router Eth off-net Transport svc min. line 7 Mbps	Y		AE207
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7 Mbps			
8	MPLS port, access & router Eth off-net Transport svc min. line 8 Mbps	Y		AE208
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8 Mbps			
9	MPLS port, access & router Eth off-net Transport svc min. line 9 Mbps	Y		AE209
	Bidder's Product Description:			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
	AT&T VPN Ethernet port, access and router bundle - 9 Mbps			
10	MPLS port, access & router Eth off-net Transport svc min. line 10 Mbps	Y		AE210
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 10 Mbps			
11	MPLS port, access & router Eth off-net Transport svc min. line 20 Mbps	Y		AE211
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 20 Mbps			
12	MPLS port, access & router Eth off-net Transport svc min. line 30 Mbps	Y		AE212
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 30 Mbps			
13	MPLS port, access & router Eth off-net Transport svc min. line 40 Mbps	Y		AE213
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 40 Mbps			
14	MPLS port, access & router Eth off-net Transport svc min. line 50 Mbps	Y		AE214
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 50 Mbps			
15	MPLS port, access & router Ethernet off-net Transport svc min. line 60 Mbps	Y		AE215
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 60 Mbps			
16	MPLS port, access & router Eth off-net Transport svc min. line 70 Mbps	Y		AE216
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 70 Mbps			
17	MPLS port, access & router Eth off-net Transport svc min. line 80 Mbps	Y		AE217
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 80 Mbps			
18	MPLS port, access & router Eth off-net Transport svc min. line 90 Mbps	Y		AE218
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 90 Mbps			
19	MPLS port, access & router Eth off-net Transport svc min. line 100 Mbps	Y		AE219

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 100 Mbps			
20	MPLS port, access & router Eth off-net Transport svc min. line 150 Mbps	Y		AE220
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 150 Mbps			
21	MPLS port, access & router Eth off-net Transport svc min. line 200 Mbps	Y		AE221
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 200 Mbps			
22	MPLS port, access & router Eth off-net Transport svc min. line 300 Mbps	Y		AE223
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 300 Mbps			
23	MPLS port, access & router Eth off-net Transport svc min. line 400 Mbps	Y		AE224
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 400 Mbps			
24	MPLS port, access & router Eth off-net Transport svc min. line 450 Mbps	Y		AE225
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 450 Mbps			
25	MPLS port, access & router Eth off-net Transport svc min. line 500 Mbps	Y		AE226
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 500 Mbps			
26	MPLS port, access & router Eth off-net Transport svc min. line 600 Mbps	Y		AE227
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 600 Mbps			
27	MPLS port, access & router Eth off-net Transport svc min. line 700 Mbps	Y		AE228
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 700 Mbps			
28	MPLS port, access & router Eth off-net Transport svc min. line 800 Mbps	Y		AE229
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 800 Mbps			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
29	MPLS port, access & router Eth off-net Transport svc min. line 900 Mbps	Y		AE230
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 900 Mbps			
30	MPLS port, access & router Eth off-net Transport svc min. line 1 Gbps	Y		AE231
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 1 Gbps			
31	MPLS port, access & router Eth off-net Transport svc min. line 2 Gbps	Y		AE232
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2 Gbps			
32	MPLS port, access & router Eth off-net Transport svc min. line 2.5 Gbps	Y		AE233
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 2.5 Gbps			
33	MPLS port, access & router Eth off-net Transport svc min. line 3 Gbps	Y		AE234
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3 Gbps			
34	MPLS port, access & router Eth off-net Transport svc min. line 3.5 Gbps	Y		AE235
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 3.5 Gbps			
35	MPLS port, access & router Eth off-net Transport svc min. line 4 Gbps	Y		AE236
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4 Gbps			
36	MPLS port, access & router Eth off-net Transport svc min. line 4.5 Gbps	Y		AE237
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 4.5 Gbps			
37	MPLS port, access & router Eth off-net Transport svc min. line 5 Gbps	Y		AE238
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 5 Gbps			
38	MPLS port, access & router Eth off-net Transport svc min. line 5.5 Gbps	Y		AE239
	Bidder's Product Description:			

	Requirement	Bidder Agrees? Y	N	Bidder's Product Identifier
	AT&T VPN Ethernet port, access and router bundle - 5.5 Gbps			
39	MPLS port, access & router Eth off-net Transport svc min. line 6 Gbps	Y		AE240
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6 Gbps			
40	MPLS port, access & router Eth off-net Transport svc min. line 6.5 Gbps	Y		AE241
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 6.5 Gbps			
41	MPLS port, access & router Eth off-net Transport svc min. line 7 Gbps	Y		AE242
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7 Gbps			
42	MPLS port, access & router Eth off-net Transport svc min. line 7.5 Gbps	Y		AE243
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 7.5 Gbps			
43	MPLS port, access & router Eth off-net Transport svc min. line 8 Gbps	Y		AE244
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8 Gbps			
44	MPLS port, access & router Eth off-net Transport svc min. line 8.5 Gbps	Y		AE245
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 8.5 Gbps			
45	MPLS port, access & router Eth off-net Transport svc min. line 9 Gbps	Y		AE246
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 9 Gbps			
46	MPLS port, access & router Eth off-net Transport svc min. line 9.5 Gbps	Y		AE247
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 9.5 Gbps			
47	MPLS port, access & router Eth off-net Transport svc min. line 10 Gbps	Y		AE248
	Bidder's Product Description: AT&T VPN Ethernet port, access and router bundle - 10 Gbps			

The Contractor may offer additional unsolicited MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds in Table 1.2.2.8.7.b.

Table 1.2.2.8.7.b Unsolicited MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		

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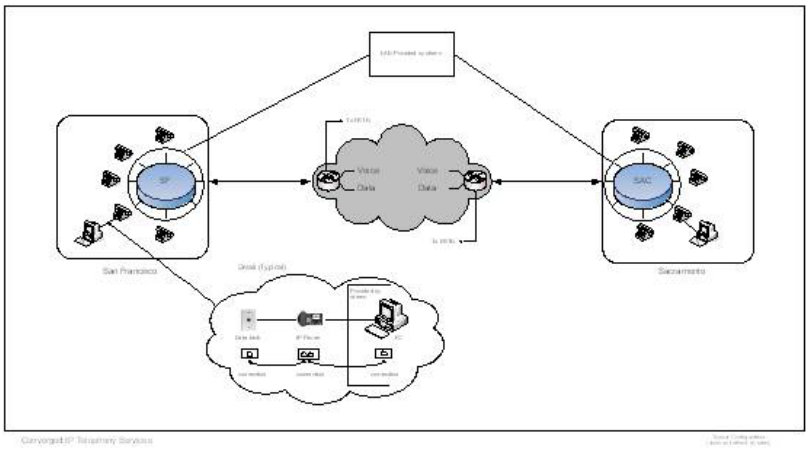
1.2.3 Converged Voice over Internet Protocol (VoIP)

1.2.3.1 Converged VoIP Minimum Network Requirements

The Contractor shall provide a VoIP network in Converged configurations that is provisioned in conjunction with the Contractor's MPLS services identified in this Subcategory. The Converged VoIP service shall utilize the MPLS circuit to access Converged VoIP calling services.

Converged VoIP Topography Example:



The VoIP network shall deliver business-class features that support standard business lines, direct inward dial (DID) lines, gateway services to local Public Switched Telephone Networks (PSTNs), and least cost (monetary) routing.

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

1.2.3.1.1 Converged VoIP Network Designs and Diagrams

Bidders shall provide network designs and diagrams for the network and Converged VoIP services.

Bidders shall provide two (2) hard copies and one (1) electronic copy with their proposal. Electronic drawings shall be in .dwg, .dfx, .vsd or any mutually agreed format. Hard copy drawings shall be provided in standard D size.

Drawings must include a thorough presentation of how the Contractor's network(s) deployed for each service type will address the following:

1. Redundancy – Having one (1) or more circuits/systems deployed in case of failure of the main circuits/systems, and;

2. Diversity – Backbone network paths and infrastructure offered in such a way as to minimize the chance of a single point of failure.

The Contractor shall provide revisions upon CALNET 3 CMO request. Drawings shall include both topology and logical representations of all critical network backbone elements to include but not be limited to the following:

1. Geographic location of equipment;
2. Type and capacity of equipment at each location including any backup systems;
3. Service type; and,
4. Unique identifier for each element.

Bidder understands the requirements in Section 1.2.3.1.1 and shall meet or exceed them? Yes__X__ No_____

Embedded Soft Copy of Drawing (Optional):

1.2.3.1.2 Intentionally Deleted

1.2.3.1.3 Public Switched Telephone Network Interoperability

The VoIP solution shall be interoperable with the Public Switched Telephone Network (PSTN).

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.4 Number Portability

The Contractor shall comply with the local number portability regulations.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.5 E9-1-1 Database Updates

The Contractor shall comply with FCC emergency service requirements including E9-1-1 services to identify the location of an originating station and route the call to the appropriate Public Safety Answering Point (PSAP).

The Contractor shall be responsible for updating the E9-1-1 database when End-User equipment is moved to a location with a different street address.

The Bidder shall describe the method(s) that will be deployed to accomplish this requirement and identify any conditions that the Customer must comply with.

Bidder understands the requirements in Section 1.2.3.1.5 and shall meet or exceed them?
Yes **X** *No*_____

Description:

E9-1-1 Database Updates

Prior to the service activation the customer must provide to AT&T the correct location information (Registered Location information) for the customer VoIP Site and Users. This information will be built in the appropriate E9-1-1 data base. The customer must notify AT&T of any changes or updates to this information through the prescribed MACD process. AT&T will then update the appropriate E9-1-1 data base. When a 911 or E911 call is made, AT&T will provide the location information based on information given to AT&T by customer to the appropriate PSAP.

With regard to AT&T Voice DNA® Service, the AT&T network attempts to detect instances in which Customer or User has relocated the CPE used in connection with the AT&T Voice DNA® Service. The AT&T Network detects instances in which the CPE has had its power turned off, been disconnected from the Network, or otherwise appears that it may have been moved. In such cases, the AT&T Network applies service limitations to the User's telephone number until the User or Customer confirms that he or she remains at the present Registered Location for the equipment, or updates AT&T's records with a new Registered Location. Service limitations will be applied in some cases in which Customer's or User's CPE has not been relocated; for example, when power to the CPE is turned off for any period of time the Network will apply service limitations even if the CPE has not been moved. Users placed in Restricted status when moving their IP phone to a non-registered location will hear a network management announcement:

- Informing users of their restricted status;
- Providing reason for the restriction;
- Prompting users for confirmation of their location in certain scenarios; and
- Providing directions to remove the restriction.

1.2.3.1.6 Network Based

The system shall be network based with all call control components residing in the Contractor's network including network gatekeepers and network gateways.

The Contractor shall not be permitted to use State property for the deployment, collocation or supplementation of the Contractors' network signaling and management equipment, call control and setup equipment, or access to other PSTN or VoIP network providers.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.7 Private VoIP Network

No voice traffic will be routed through the public Internet. All voice traffic will traverse the Contractor's private MPLS network.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.8 SIP Based Open Architecture

The VoIP network deployed for CALNET 3 shall be non-proprietary. The system shall use Session Initiation Protocol (SIP) standards based open architecture.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.9 Intentionally Deleted

This section intentionally deleted.

1.2.3.1.10 Directory Redundancy and Addressing

The VoIP network shall include redundant network-based directory or gatekeeper functionality to prevent call set up failure.

The VoIP network shall partition call addressing in such a manner that failure of gatekeepers will not result in a VoIP network failure for all State facilities. At its sole discretion, the CALNET 3 CMO may direct the partitioning and physical location of Customer or department directories to diverse gatekeepers within the VoIP network

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.11 Technical Measurement Metrics

The VoIP network shall meet the technical measurement metrics listed below.

Table 1.2.3.1.11 Technical Measurement Metrics

	Metric	Bidder Meets or Exceeds? Y	N
1	Mean Opinion Score ITU P.800 – 3.6 or above (or equivalent industry standard measurement)	Y	

Metric		Bidder Meets or Exceeds? Y	N
2	Dial Tone Delay – Not to exceed 300 ms for any call	Y	
3	Call Setup Time – Not to exceed three (3) seconds for any call	Y	

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

1.2.3.1.12 Standards Conformance

The VoIP Network and associated services shall conform to the Standards described in Table 1.2.3.1.12 as applicable.

Table 1.2.3.1.12 VoIP Standards

Standard		Bidder Meets or Exceeds? Y	N
1	IETF RFC 3261 SIP (Session Initiation Protocol) and all subsequent RFC's	Y	
2	IETF RFC 2132 for DHCP 4703, 6355	Y	
3	IETF RFC's 2916 ENUM, 2806, 6116, 6117	Y	
4	IPv4	Y	
5	IPv6 when and where offered commercially by the Contractor	Y	
6	IETF RFC 1349 ToS, 2474, 2475 DiffServ 3260	Y	
7	ITU-T E.164	Y	
8	ITU G.165/G.168 and subsequent standards for echo cancellation	Y	
9	ITU-T G.711, G.723.x, G.726, G.728, or G.729.x	Y	
10	ITU-T H.248.1 (MEGACO), H.323, H.350 when and where offered commercially by the Contractor	Y	
11	ITU-T P.800 series of Standards for telephone transmission quality. ITU-T P.910	Y	
12	ITU-T T.30, T.37 and T.38, Group III fax	Y	
13	Media Gateway Control Protocol (MGCP) IETF RFC 3435 when and where offered commercially by the Contractor	Y	
14	IETF RFC 3550 Real-Time Transport Protocol (RTP) 5506, 5761, 6015, 6222	Y	
15	IETF RFC 2205 Resource Reservation Protocol (RSVP) 2750, 4495, 5946, 6437	Y	

	Standard	Bidder Meets or Exceeds? Y	N
16	IETF RFC 768 User Datagram Protocol (UDP)	Y	

1.2.3.1.13 Class of Service

The network shall be configured with the appropriate Class of Service (CoS) required for the proper operation of the service. The CoS shall be included in the per seat price and shall not be charged separately.

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

1.2.3.1.14 Voice Compression

The VoIP network shall include Voice Compression that will:

1. Pass all applicable ITU test vectors;
2. Support configurable packetization for maximum flexibility; and,
3. Not degrade when all channels are active.

Bidder shall list the voice compression CODEC(s) that will be used with the VoIP network.

Bidder understands the requirements in Section 1.2.3.1.14 and shall meet or exceed them? Yes **X** *No*_____

Description:

Voice Compression

AT&T VDNA supports G.711 and G.729 CODECs.

1.2.3.1.15 Network Operations Center

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

The NOC shall perform network surveillance, traffic analysis, control of access and egress traffic, and fault management (trouble identification, isolation and notification).

The NOC shall monitor network performance in near real-time to identify capacity blockages and implement controls to optimize the VoIP network health and performance immediately.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.1.16 VoIP Security

The Contractor shall implement security measures that detect and prevent unauthorized access to the network for the following types of security breaches:

1. Denial of Service (DoS);
2. Invasion of Privacy;
3. Man-in-the-Middle (MITM) attacks; and,
4. Protocol specific security vulnerabilities.

The Contractor shall ensure security practices and policies are updated and audited every six (6) months.

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

1.2.3.1.16.1 Physical Access

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

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

1.2.3.1.16.2 Network Security

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

1. The Contractor's VoIP Network equipment locations shall use carrier grade platforms;
2. All network equipment shall be in a hardened, secure facility;
3. All unnecessary services shall be disabled or removed;
4. Access control policies shall be used to deny suspicious traffic;
5. Core servers shall be accessed through an authentication server;
6. Administrators shall be required to log into a central server to access any other server on the network; and,
7. Proxy servers shall be protected by redundant firewalls which include features such as:
    a. Network attack detection;
    b. Denial of Service (DoS) and Distributed Denial of Service (DDOS) protections;

c. Transmission Control Protocol (TCP) reassembly for fragmented packet protection;
d. Malformed packet protections;
e. Deep inspection firewall;
f. Protocol anomaly; and,
g. Stateful protocol signatures.

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

1.2.3.1.16.3 Client Authentication

The Contractor shall provide SIP Digest Authentication for Customer VoIP handsets.

The Contractor shall set passwords on VoIP handsets before they are shipped.

Telnet shall be disabled to the VoIP handsets.

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

1.2.3.2 Converged VoIP Services

The Contractor shall provide Converged VoIP that will connect to a Customer's Local Area Network (LAN). This service will allow for the ordering and provisioning of hosted voice and data over a single VoIP network interface. This service shall be interoperable with and traverse successfully across the subscribing Customer's firewalls and security layers.

The proposed design shall be network based where all major components reside at a central office or off-premises location. Bandwidth requirements shall be determined by the ITU compression mechanisms defined by the Contractor's network design.

The handsets shall be provided by the Contractor as part of the service package and per-seat price (Table 1.2.3.2.4) but will connect directly to the Customer's infrastructure/network.

In the event at Contractor is awarded a CALNET 3 Contract for Standalone VoIP services, this service shall be interoperable and the State shall not incur any charges to place calls between the two (2) services.

The Converged VoIP service shall be charged on a per-seat basis. The Contractor's per-seat price shall include all handsets, network gatekeepers, gateways, call control components, labor and materials to make the service fully operational on a Customer provided LAN.

Converged VoIP service shall provide dial tone and full functionality of features to the on-site telephone.

No additional chargeable service or feature components required to comply with the requirements of this Section 1.2.3.2 shall be allowed and all costs shall be bundled into the service components identified.

All LAN functionality, components, cabling, and equipment shall be the responsibility of the Customer and shall be acquired elsewhere. Remediation of the LAN shall be the Customers responsibility and shall be acquired elsewhere.

Any service provided by this Subcategory shall only be used for Converged VoIP and shall not be used for traditional LAN installations.

The Converged VoIP service shall be provisioned in conjunction with MPLS Transport Services.

The Bidder shall describe its Converged VoIP network architecture, components and services that will be deployed for CALNET 3 to provide a VoIP solution for the application described.

Bidder understands the requirements in Section 1.2.3.2 and shall meet or exceed them?
Yes **X** *No*____

Description:

Converged VoIP Services

AT&T Converged VoIP service is a complete network based communications solution, including handset, which utilizes existing customer managed LAN infrastructure. Network transport, services, and applications layers are implemented transparently, allowing transport infrastructure to be independent from the services and applications that run on top of it.

The AT&T Converged VoIP services architecture also enables easy evolution and incorporation of future applications as your business needs require. AT&T VoIP Services provides a seamless path to enhanced IP voice communications. You can utilize a phased migration approach to move your employees from legacy voice systems to complete unified communications at their own pace and as their requirements dictate. AT&T will provide support for the migration of existing voice clients, utilizing the AT&T Converged VoIP platform. The platform will allow for support of basic voice and voice mail communications. AT&T Converged VoIP Services provides for the scalability that you will likely require in the future, adding clients as needed to meet your expansion requirement.

Our network-based AT&T Converged VoIP services solution also provides for complete network monitoring, management and on-site support to maintain the solution 24x7. AT&T provides support for all aspects of the network solution including e-bonding with existing

network support centers. AT&T network transport components provide a seamless one-stop support environment. AT&T can also offer implementation, training and project management support services as part of the overall solution.

The entire solution is delivered, managed and monitored by AT&T. We can provide all of the moves, adds and changes for you. Your administration staff will also have the ability to use an online portal to open and track troubles or to request moves, adds and changes to the voice messaging system. Connection to AT&T VoIP Nodes is brought to you through AT&T Integrated Data Centers (IDC). AT&T VoIP Nodes can be connected to customer data centers to support connectivity, security, and resiliency as required.

AT&T Voice DNA Service

AT&T Voice DNA is a network-based, fully hosted VoIP solution, including the handset, that offers businesses a full range of advanced calling features, applications, and management tools for employees and remote workers over a single network interface.

AT&T Voice DNA Offers:

- Multiple Access Options
- All-Distance Calling
- Telephone features and enhanced applications
  - Voice Mail
  - Locate Me (Find Me/Follow Me)
  - Conferencing on Demand
  - Auto Attendant
  - End User and Administrator Portals
  - Customized – Focus group tested
  - All applications integrated into a single front page via AT&T BusinessDirect[SM]
  - Highly Secure > Single Login; Exceeds Security standards
- Customer Premises Equipment
  - Interoperability Test Labe to ensure phones are compatible
  - Automated SIP Phone provisioning and plug & play registration/configuration
  - Automated firmware updates to ensure phones have latest upgrades/patches
  - CPE Design, Install, and Installation Support
- Benefits
  - Support for Remote and Nomadic Workers

- Greater Business Productivity
- Reduced Complexity

The following diagram shows the basic AT&T Voice DNA hosted architecture with centralized call processing and off net PSTN access with optional site survivability capability.

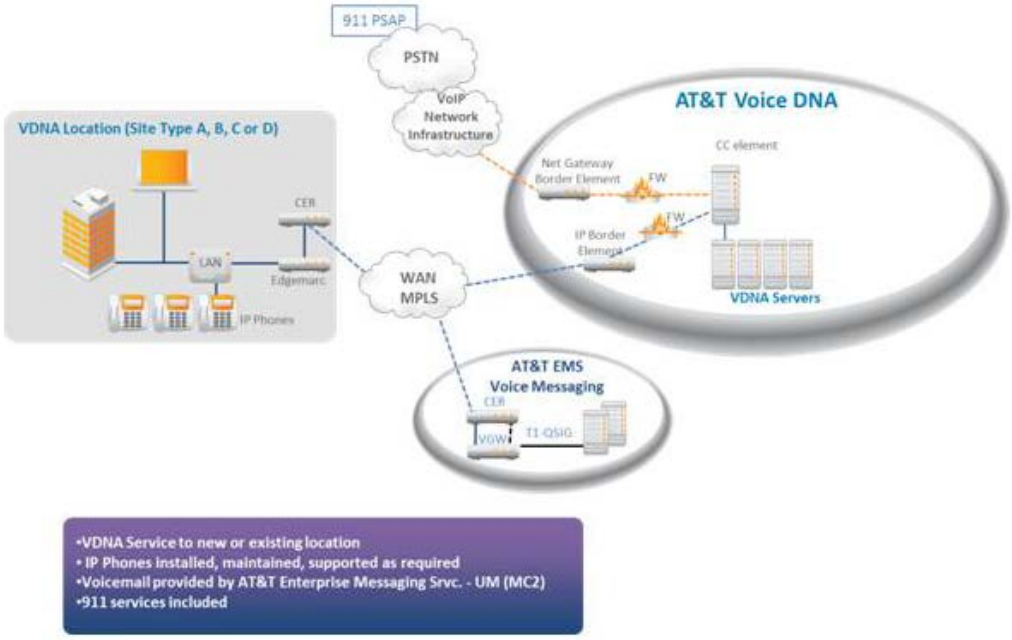


Figure 1.2-1. AT&T Voice DNA. *We provide enhanced Voice Application Services on our AVPN service.*

The following diagram depicts the AT&T Voice DNA hosted architecture with geo-redundancy.

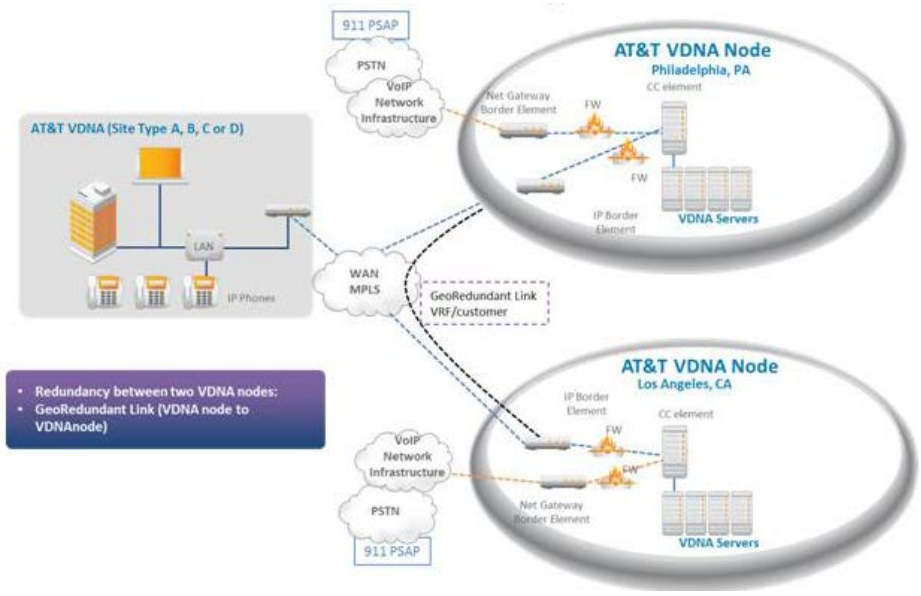


Figure 1.2-2. AT&T Voice DNA (Geo-Redundancy). *Our Voice DNA hosted architecture is built with geo-redundancy.*

The following diagram shows the integration capability of AT&T Voice DNA service with legacy Centrex and Voice Mail services.

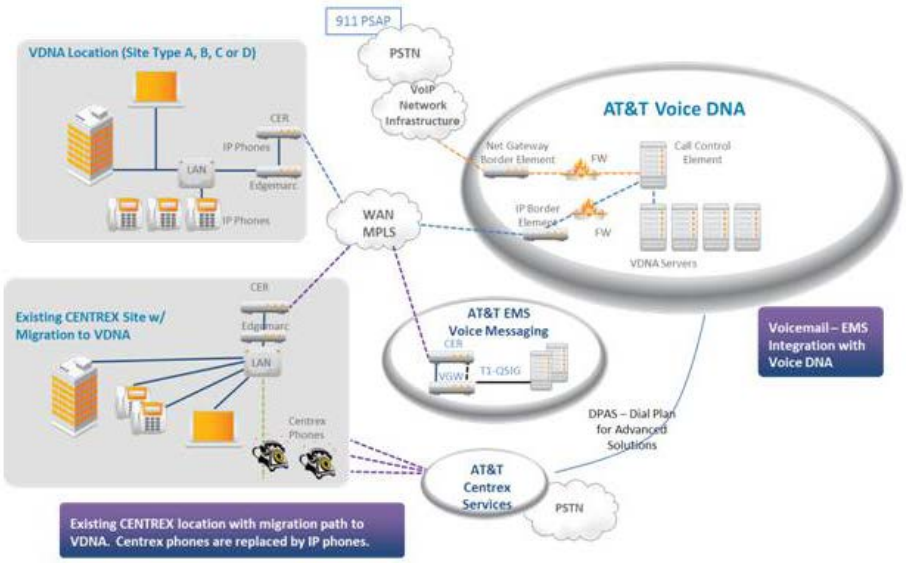


Figure 1.2-3. AT&T Voice DNA Integrated Capabilities. *Our Voice DNA service is capable of integrating with Centrex and Voice Mail service.*

The following diagram shows the off -net call flow of AT&T Voice DNA service.

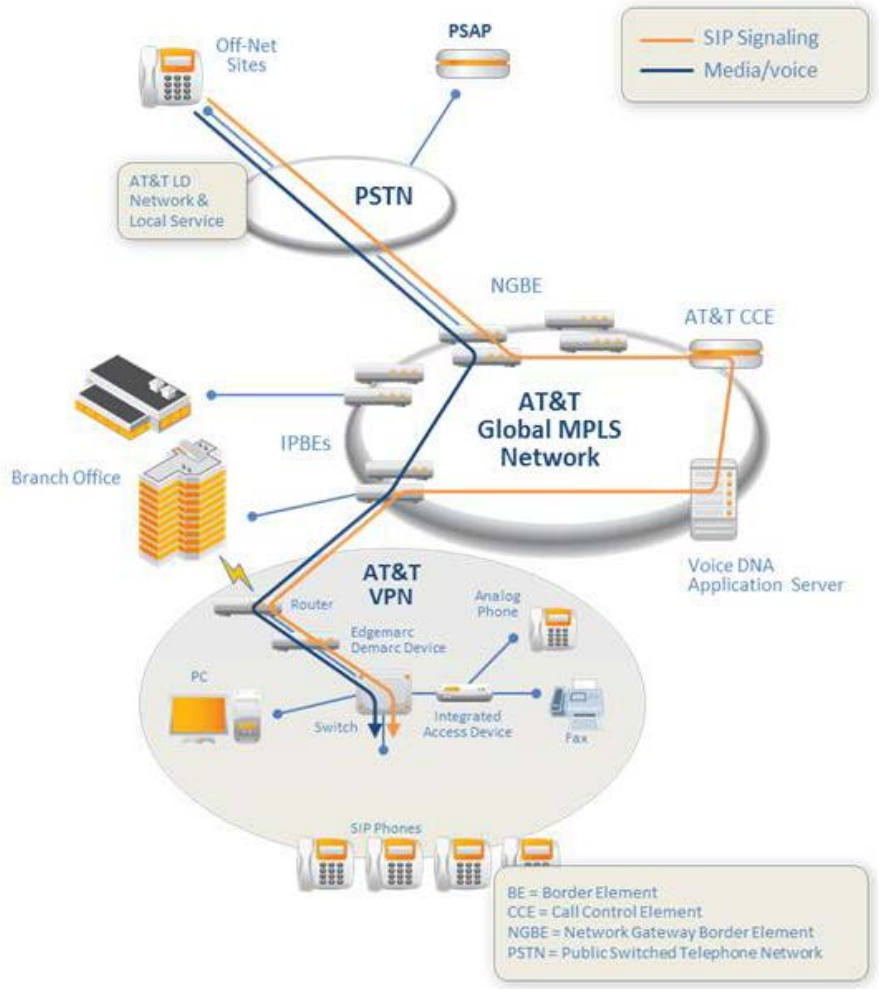


Figure 1.2-4. AT&T Voice DNA Off-net Call Flows. *The Off-net Call Flow for our Voice DNA ensures overall call quality.*

1.2.3.2.1 Converged VoIP Minimum Requirements

The Converged VoIP service shall include all equipment, hardware, software, training and ongoing administration, maintenance and upgrades in the "per-seat per-month" cost. These requirements are described in detail below.

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

1.2.3.2.1.1 Converged VoIP Equipment and Hardware

Unless otherwise noted in the detailed product listing below, the Contractor shall furnish and install all equipment and hardware required to deliver the service to the workstation handset including routers, wire management, cross-connects, patch and device cords, and the workstation handset.

Horizontal closet racks, raceway, environmental components and AC electrical power will be acquired through other procurement vehicles.

Horizontal station cabling will be the responsibility of the Customer and will be acquired through other procurement vehicles.

As stated in Section 1.2.3.2, all LAN functionality, components, cabling, and equipment shall be the responsibility of the Customer and shall be acquired elsewhere.

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

1.2.3.2.1.2 Converged VoIP Software

The Contractor shall provide all software and ongoing software patches or upgrades required to deliver the Converged VoIP service to the workstation handset.

Contractor shall provide all configuration and programming.

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

1.2.3.2.1.3 Converged VoIP Administration

The Contractor shall perform all initial and ongoing administrative functions to deliver the Converged VoIP service to the workstation handset.

The Contractor shall provide the Customer with the option to perform selected on-site administrative functions.

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

1.2.3.2.1.4 Converged VoIP Maintenance

The Contractor shall provide all maintenance (including software upgrades and patches) required for continuous delivery of the Converged VoIP service to the workstation handset.

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

1.2.3.2.1.5 Converged VoIP Handset Power Supplies

The Contractor shall provide ancillary handset power supplies with the handset.

The Customer will have the option of providing Power Over Ethernet (PoE) switches in lieu of ancillary handset power supplies.

The Contractor shall provide handsets that utilize POE at the Customer's request.

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

1.2.3.2.1.6 Converged VoIP Class of Service (CoS)

The network shall be configured with the appropriate class of service (CoS) required for the proper operation of the Converged VoIP service.

The CoS shall be included in the per-seat price and shall not be charged separately.

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

1.2.3.2.2 Interoperability of Converged VoIP with Other CALNET 3 Technologies

The Contractor's Converged VoIP services shall be interoperable with the Contractor's SIP Trunking services (Section 1.2.5) and the State shall not incur any charges for calls between these two (2) services.

In the event at Contractor is awarded a CALNET 3 Contract for Standalone VoIP services (Subcategory 1.3), this Converged VoIP service shall be interoperable with the Contractor's Standalone VoIP services and the State shall not incur any charges for calls between these two (2) services.

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

1.2.3.2.3 Converged VoIP Basic Feature Package

The Contractor shall provide a basic feature package for all handset configurations listed in Section 1.2.3.2.4 (Converged VoIP Handsets). The basic feature package shall include the call features described in Table 1.2.3.2.3.

Table 1.2.3.2.3 Converged VoIP Basic Feature Package

	Converged VoIP Basic Call Package Features	Bidder Meets or Exceeds? Y	N
1	900 Blocking – No calls from 900-xxx-xxxx will be processed to any subscribers	Y	
2	Auto Attendant – A service that automatically answers incoming calls within a predefined number of rings without assistance from a live attendant. It prompts callers with a series of choices and actions to perform. Based on selected action, the caller may listen to a recorded announcement, leave a message, place a call, activate another voice service or be routed to a particular service. Customers with Administrative authority shall have the ability to perform Auto Attendant configuration and modifications through a web interface.	Y	
3	Call Forward – Busy Don't Answer – Allows a station End-User to choose to reroute incoming calls to another specified telephone number. This shall be available for all incoming calls on a busy or ring-no-answer condition. (Indicate the limitation of paths the call may take)	Y	
4	Call Forward – All Calls – Allows the station End-User to choose to reroute all incoming calls to another specified telephone number. The feature shall have the capability to restrict call forwarding to internal, local or long distance numbers	Y	
5	Call Hold – Allows the called party to put a caller on hold and retrieve them from the hold state	Y	
6	Call Notify - Enables a subscriber to define criteria that causes certain incoming calls to initiate an email notification.	Y	
7	Call Transfer – Allows a station End-User to transfer any call in progress to another telephone number without the assistance of an operator	Y	
8	Call Pickup – Allows a subscriber to answer any calls directed to another station line within his or her own predefined call pickup group	Y	
9	Call Park – Allows a call to be parked at a subscriber's number for retrieval by another subscriber line. The capability shall be administered on an individual station basis according to the subscribing Agencies needs	Y	
10	Conference – Allows a voice station End-User to establish a multiparty conference connection of a minimum of three (3) conferees including themselves without attendant assistance.	Y	
11	Call Waiting - When a second call is received while a subscriber is engaged in a call, the subscriber is informed via an audible tone.	Y	

	Converged VoIP Basic Call Package Features	Bidder Meets or Exceeds? Y	N
12	Caller ID – Phone number of the calling party is displayed on the terminal equipment	Y	
13	Class of Service - The CoS configured on the transport required for the proper operation of the service.	Y	
14	Conference Bridge – Allows callers from diverse locations/platforms to dial in to a specified telephone number to participate in a conference call	Y	
15	DID - Direct inward dial phone number including Single Line appearance.	Y	
16	Directory Phone Display – Directory of Customer's VoIP subscribers via the phone display	Y	
17	Four-digit Extension Dialing – All 'on-net' numbers can be reached by dialing the 4-digit extension from 'on-net' phones	Y	
18	Group Pickup – Allows an incoming call to be picked up from any one (1) of a predefined group of phones	Y	
19	Hunt Groups – Route inbound calls to a predetermined sequence of telephone numbers until it is answered	Y	
20	Message Waiting Indicator – Visual indication on phone that a message is in queue for review	Y	
21	Multi-Line Appearance – Provide the ability for multiple line appearances on a subscriber's phone	Y	
22	Redial – Allow a station End-User to automatically originate a call to the last number dialed from the station End-User's phone	Y	
23	Speed Dial – Allows abbreviated digit dialing capability on a per station basis	Y	

Bidders shall identify any additional features available at no additional charge.

Bidder understands the requirements in Section 1.2.3.2.3 and shall meet or exceed them?
Yes **X** *No*_____

Description:

Converged VoIP Basic Feature Package

In addition, AT&T will offer the following features at no additional charge:

Additional VDNA Features:

- 911 move detection
- Authentication
- Anonymous Call Rejection
- Automatic Callback on Busy
- AVPN nomadic device flag
- Bridged Line Appearance – enhanced set up capabilities
- Call Forward – Not Reachable
- Call Forking (multiple devices per user)
- Call logs (enhanced call logs) – portal based
- Caller ID Block – always
- Caller ID Block – per call (cannot disable)
- Click to Call
- Codec Priority Setting
- Directed call pickup with barge-in/ barge-in exempt
- Diversion Inhibitor
- External Transfer
- Group Operator
- Hunt Groups, Member Number Hunting
- Intercom
- Last Call Return
- Location Dialing Prefix (per VDNA site)
- Location level caller id
- Three-way call – portal / phone
- N-way call (15 call legs) – portal only
- Music on Hold, enable/ disable
- Personal Portal for end users,
  - compatible with IE 7/8
  - Enhanced user control of features
- Priority Alert

- Privacy (mask number in directory)
- Reports
- Ring Choices (phone based)
- Sequential Ring (with selective criteria)
- Simultaneous Ring (with selective criteria)
- Virtual Office

1.2.3.2.4 Converged VoIP Handsets

The Contractor shall provide the Converged VoIP service in six (6) specific handset configurations as defined below.

1.2.3.2.4.1 Standard Converged VoIP Handset Features

1. Single line;
2. LCD Display;
3. Full Duplex Hands Free Speakerphone;
4. Shared call / bridged line appearance;
5. Visual message waiting indicator;
6. Ring volume control;
7. Minimum six (6) Programmable function keys or a soft key interface;
8. Single 10/100 Ethernet port;
9. Power over Ethernet; and,
10. ADA Compliant section 508.

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

1.2.3.2.4.2 Midrange Converged VoIP Handset Features

Standard Converged VoIP handset features plus:

1. Minimum three (3) lines;
2. Intercom feature;
3. Two-Port 10/100 Ethernet Port 802.3af;
4. 3 Way conferencing; and,

5. User Configurable Contact Directory.

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

1.2.3.2.4.3 Executive Converged VoIP Handset Features

Midrange Converged VoIP handset features plus:

1. Minimum four (4) lines; and,
2. Two-Port 10/100/1000 Mbps Port.

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

1.2.3.2.4.4 Attendant Converged VoIP Handset Features

Executive Converged VoIP handset features plus:

1. Minimum Six (6) Lines;
2. Expansion Module(s) Capability;
3. USB port for call recording function; and,
4. XML API functionality.

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

1.2.3.2.4.5 Standard Conference Room Converged VoIP Speakerphone Features and Functionality

1. IEEE 802.3af functionality;
2. IEEE 1329 full duplex standards;
3. RFC 3261 & companion RFCs (SIP);
4. IEEE 802.1 p/Q tagging;
5. Expansion microphone compatible;
6. Audio compression standards: G.711, G.729, G.722;
7. Ethernet 10/100Mbps connection;
8. Visual time & display;
9. Lightweight Directory Access Protocol (LDAP) corporate directory integration; and,
10. Layer 3 Type of Service (ToS) and Differentiated Services Code Point (DSCP).

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

1.2.3.2.4.6 Converged VoIP Executive Conference Room Speakerphone Features and Functionality

All Converged VoIP Standard Conference Room Speakerphone features and functionality, plus:

1. Integration with video conferencing systems;
2. High Definition Voice functionality;
3. Cell phone connection port;
4. 255x128 pixel display;
5. Multi-unit connectivity; and,
6. 2 expansion microphones included.

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

Bidders shall provide the Converged VoIP Handset Service Packages described in Table 1.2.3.2.4.a

Table 1.2.3.2.4.a Converged VoIP Handset Service Packages

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Standard Converged VoIP Handset Svc Pkg	Service Package with Standard Converged VoIP Handset Service Package as described in 1.2.3.2.4.1 and the Basic Feature Package as described in 1.2.3.2.3	Y		CV001
	Bidder's Product Description: Service Package with Standard Converged VoIP Handset Service Package as described in 1.2.3.2.4.1 and the Basic Feature Package as described in 1.2.3.2.3.				
2	Midrange Converged VoIP Handset Svc Pkg	Service Package with Midrange Converged VoIP Handset Service Package as described in 1.2.3.2.4.2 and the Basic Feature Package as described in 1.2.3.2.3	Y		CV002
	Bidder's Product Description: Service Package with Midrange Converged VoIP Handset Service Package as described in 1.2.3.2.4.2 and the Basic Feature Package as described in 1.2.3.2.3.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
3	Executive Converged VoIP Handset Svc Pkg	Service Package with Executive Converged VoIP Handset as described in 1.2.3.2.4.3 and the Basic Feature Package as described in 1.2.3.2.3	Y		CV003
	Bidder's Product Description: Service Package with Executive Converged VoIP Handset as described in 1.2.3.2.4.3 and the Basic Feature Package as described in 1.2.3.2.3.				
4	Attendant Converged VoIP Handset Svc Pkg	Service Package with Attendant Converged VoIP Handset Service Package as described in 1.2.3.2.4.4 and the Basic Feature Package as described in 1.2.3.2.3	Y		CV004
	Bidder's Product Description: Service Package with Attendant Converged VoIP Handset Service Package as described in 1.2.3.2.4.4 and the Basic Feature Package as described in 1.2.3.2.3.				
5	Converged VoIP Standard Conf Rm Speakerphone Svc Pkg	Service Package with Converged VoIP conference phone Service Package with no external speakers as described in 1.2.3.2.4.5 and the Basic Feature Package as described in 1.2.3.2.3	Y		CV005
	Bidder's Product Description: Service Package with Converged VoIP conference phone Service Package with no external speakers as described in 1.2.3.2.4.5 and the Basic Feature Package as described in 1.2.3.2.3.				
6	Converged VoIP Executive Conf Rm Speakerphone Svc Pkg	Converged VoIP conference phone Service Package with two (2) external speakers as described in 1.2.3.2.4.6 and the Basic Feature Package as described in 1.2.3.2.3.	Y		CV006
	Bidder's Product Description: Converged VoIP conference phone Service Package with two (2) external speakers as described in 1.2.3.2.4.6 and the Basic Feature Package as described in 1.2.3.2.3.				

The Contractor may offer additional unsolicited Converged VoIP Handset Service Packages in Table 1.2.3.2.4.b.

Table 1.2.3.2.4.b Unsolicited Converged VoIP Handset Service Packages

	Feature Name	Feature Description	Bidder's Product Identifier
	AT&T Unified Communication (UC) Service	AT&T Unified Communication (UC) Service	Multiple Ids (see below)
	Bidder's Product Description: AT&T's Unified Communications Service – UC Voice combined with the UC Client (Cisco Jabber™)provides real-time communication services including IP or PSTN telephony, chat (instant messaging), presence information. This service is designed for a converged IP environment and offers advance voice and client integration in an unbundled fashion and allows customer to pick and choose the features that meets their needs. AT&T UC Services are available in two primary service components: UC Voice and UC Client (Cisco Jabber™)... Cisco Jabber™ is the user interface that facilitates user transmission of content through wired and wireless devices. UC Voice enables single-number reach, voicemail and unified messaging using IP-based telephony through deskphones and compatible software-based clients. UC requires AT&T provided MPLS transport, SIP Trunking service and AT&T owned and managed handsets and devices.		
1	AT&T UC Voice Essential	AT&T UC Voice Essential	UC001
	Bidder's Product Description: Cloud-based IP Voice port providing basic call processing to support following customer requirements: • Basic call processing for common area phones; no SNR • Can be used for analog devices including FAX, Night Bell, Paging System Integration – please note the following: o Requires analog gateway for analog devices • Supports Cisco IP Phones 3905 and 6901 or successor models only		
2	AT&T UC Voice Fundamental	AT&T UC Voice Fundamental	UC002
	Bidder's Product Description: Cloud-based IP Voice service providing call processing and the following advanced features: • Basic Call Processing • Single Number Reach (SNR)		

	Feature Name	Feature Description	Bidder's Product Identifier
	• Used with Cisco IP Phones 6911 , 6921, 6901, 3905 or successor models only		
3	AT&T UC Voice Fundamental w Vcml	AT&T UC Voice Fundamental with Voicemail	UC003
	Bidder's Product Description: Cloud-based IP Voice service providing call processing and the following advanced features: • Basic Call Processing • Single Number Reach (SNR) • Voice Mail • Supports Cisco IP Phones 6911 , 6921, 6901, 3905 or successor models only		
4	AT&T UC Voice Fundamental w Vcml + Jabber™	AT&T UC Voice Fundamental with voicemail + Cisco Jabber™ (up to 10 devices)	UC004
	Bidder's Product Description: Cloud-based Presence and IM for Mobile + PC and IP Telephony • Presence/IM via UC client (Cisco Jabber™) for Mobile and PC • PC2PC Calling PC to PSTN Calling • Microsoft Outlook Collaboration • Integration with AT&T Connect for Voice, Video and Web Conferencing • Single Number Reach • Voicemail • Supports Cisco IP Phones 7937G, 7942G, and 7962G. 6961,6945, 6941, 6911, 6921, 6901, 3905 or successor modelsonly		
5	AT&T UC Voice Enhanced w Vcml + Jabber™	AT&T UC Voice Enhanced with voicemail+ Cisco Jabber™ (up to 10 devices)	UC005
	Bidder's Product Description: Cloud-based Integrated PC/Mobile Unified Communication Client (Cisco Jabber™) with Enhanced IP Voice add-on feature to AT&T's Unified Communications Voice service that include: • Mobile and PC clients (Cisco Jabber™);		

	Feature Name	Feature Description	Bidder's Product Identifier
	• Integrated message dashboard; • Presence and IM/Chat; • Live conferencing: voice, web, and desktop video conf; • Email, calendar integration with MS Exchange, Lotus Notes; • PC-to-PC voice calling; • Session graduation from IM/Chat -> phone call -> web conf; • Single number reach; • IP Phone, Video Phone and Soft Phone Support; • Voice Mail and Unified Messaging; • Remote Call set up; and, • Includes Telephony Service Connection – Integration with legacy TDM /IP PBX systems.		
6	GEO - Redundant UC Voice	GEO - Redundant Data Center Add or Changes for UC Voice Services	UC006
	Bidder's Product Description: Setup or Change Geographic Redundant Data Centers for UC Voice at a time after the initial customer setup has occurred.		
	AT&T UC Voice Handset and Device Services	AT&T UC Voice Handsets and Devices	Multiple IDs see below
	Bidder's Product Description: AT&T provides a variety of AT&T owned handsets and devices to complement and enhance UC voice service. Handset and device services can only be ordered and used as part of AT&T Unified Communication Service. Handsets and devices cannot be ordered and used as standalone or with another VoIP service.		
7	UC Essential Basic Handset Service	UC Essential Basic Handset	CP3905
	Bidder's Product Description: UC Essential Basic Handset – Single line (10/100) handset w Monochrome Backlit Display		
8	UC Essential Standard Handset Service	UC Essential Standard Handset	CP6901

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: UC Essential Standard Handset – Single line handset		
9	UC Fundamental Basic Handset Service	UC Fundamental Basic Handset	CP7821
	Bidder's Product Description: UC Fundamental Basic Handset – 2 line (10/100) handset w speakerphone and 396 x 162 pixel-based, anti-glare graphical monochrome display with white backlight display.		
10	UC Fundamental Standard Handset Service	UC Fundamental Standard Handset	CP792
	Bidder's Product Description: UC Fundamental Standard Handset – 2 Line (10/100) handset w speakerphone and 5-inch (12.5 cm), high-resolution (320 x 222), graphical monochrome 4-bit grayscale display.		
11	UC Fundamental Midrange Handset Service	UC Fundamental Midrange Handset	CP7841
	Bidder's Product Description: UC Fundamental Midrange Handset – 2 Line (10/100/1000) handset w speakerphone and 396 x 162 pixel-based, anti-glare graphical monochrome display with white backlight display.		
12	UC Fundamental Executive Handset Service	UC Fundamental Executive Handset	CP795
	Bidder's Product Description: UC Fundamental Executive Handset – 4 Line (10/100/1000) handset with speakerphone and 5-inch (12.5 cm) graphical TFT color display, 16-bit color depth, 320 x 240 effective pixel resolution, with backlight.		
13	UC Fundamental Plus Midrange Handset Service	UC Fundamental Plus Midrange Handset	CP7965
	Bidder's Product Description: UC Fundamental Plus Midrange Handset – 6 Line (10/100/1000) handset w speaker phone and Digital, 16-bit graphical backlit TFT Color, 5" display.		

	Feature Name	Feature Description	Bidder's Product Identifier
14	UC Fundamental Plus Executive Handset Service	UC Fundamental Plus Executive Handset	CP7975
	Bidder's Product Description: UC Fundamental Plus Executive Handset – 8 Line (10/100/1000) handset w speakerphone and Digital, 16-bit graphical backlit TFT Color, 5.6" display		
15	UC Fundamental Plus Midrange Video Handset Service	UC Fundamental Plus Midrange Video Handset	CP9951
	Bidder's Product Description: UC Fundamental Plus Midrange Video Handset – 5 Line (10/100/1000) handset w speaker phone and Digital, 24-bit graphical backlit TFT Color, 5" display.		
16	UC Fundamental Plus Executive Video Handset Service	UC Fundamental Plus Executive Video Handset	CP9971
	Bidder's Product Description: UC Fundamental Plus Executive Video Handset – 6 Line (10/100/1000) handset w speakerphone and Digital, 24-bit graphical backlit TFT Color, 5" display		
17	Standard UC Converged Conference Room Speakerphone Service	Standard UC Converged Conference Room Speakerphone	CP8831
	Bidder's Product Description: Standard UC Converged Conference Room Speakerphone		
	AT&T Managed Local Area Network Service (MLAN)	AT&T Managed Local Area Network Service (MLAN)	Multiple (See feature IDs below)

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: AT&T Managed LAN Service - MLAN is a premises-based Ethernet switching infrastructure of an organization's computer network. The MLAN Service provides design, implementation and remote monitoring and management of a Customer's LAN infrastructure via select AT&T business data transport services supported by the IPT/LAN Services from one of AT&T's management centers. The LAN Service supports standard configurations of Cisco® Catalyst and Juniper EX series Switches. MLAN can only be order and used with AT&T Converged VoIP services, and cannot be ordered or used as a standalone service.		
	MLAN Standard Management	MLAN Standard Management	Multiple (See feature IDs below)
	Bidder's Product Description: MLAN Standard Management - Standard Management provides a low reactive monitoring and management service with automatic Customer notification of events. Standard Management does not support proactive management of IP Hard, Soft and Wireless Phones (e.g. automatic alarming and ticket generation). MLAN Standard Management includes the following features: **Proactive Fault Management** Faults occurring on managed elements are reported by the system. The elements that are proactively monitored are LAN Catalyst switches and Wireless LAN Aironet Access Points. The Proactive Fault Management Process is comprised of: • **Service Monitoring:** AT&T provides 7X24 electronic surveillance of potential problems for voice premises elements, allowing the customer to proactively manage their network. • **Alarm Recognition and Proactive Notification:** Observation/identification of event occurrence, severity and potential Customer impact, and notification to the Customer. This proactive notification service is provided 7 x 24. • **Call Receipt:** AT&T receives notification from a client representative — they may notify us that they are working on the system and alarms may be generated. • **Ticket Creation:** AT&T creates a trouble ticket and tracking number for any problem that occurs. • **Trouble Isolation:** Component observation/testing required to determine the hardware/software responsible for the alarm/event. • **Problem Resolution:** Activities required to resolve event including remote software administration, configuration, patch, or coordination of on-site vendor hardware software break/fix activity. • **Track Ticket to Closure**: Documentation required during trouble ticket life cycle including problem description, vendor interaction, procurement activity,		

	Feature Name	Feature Description	Bidder's Product Identifier
	resolution description, billing information, and verification of Customer satisfaction. • **Vendor Interface**: Interaction with maintenance vendors as required to arrange for on-site break/fix activity and/or component procurement/replacement.		
18	Low Complexity LAN Switches Standard Mngmnt Svc	Low Complexity LAN Switches Standard Management Service	MLS01
	Bidder's Product Description: Low Complexity LAN Switches Supported: • Cisco 29xx series; and, • Juniper EX 22xx series.		
19	Medium Complexity LAN Switches Standard Mngmnt Svc	Medium Complexity LAN Switches Standard Management Service	MLS02
	Bidder's Product Description: Medium Complexity LAN Switches Supported: • Cisco 3550 Series; • Cisco 3560 Series; • Cisco 3750 Series (standalone); • Cisco Nexus 2K; and, • Juniper EX 3200 Series.		
20	High Complexity LAN Switches Standard Mngmnt Svc	High Complexity LAN Switches Standard Management Service	MLS03
	Bidder's Product Description: High Complexity LAN Switches Supported: • Cisco 4500 Series; • Cisco 4900 Series; • Cisco 6500 Series; • Cisco 7600 Series; • Cisco Nexus 5K; • Cisco Nexus 7K • Juniper EX4200 Series;		

	Feature Name	Feature Description	Bidder's Product Identifier
	• Juniper EX4500 Series; and, • Juniper EX8200 Series.		
21	Stackable Layer 2 LAN Switch configurations using 2960S,3750, EX4200 series LAN Switches Standard Management Service	Stackable Layer 2 LAN Switch configurations using 2960S,3750, EX4200 series LAN Switches	MLS04
	Bidder's Product Description: Supported Stackable Layer 2 LAN Switches: 2960S,3750, EX4200		
22	Stackable Layer 3 LAN Switch configurations using 2960S, 3750, EX4200 series LAN Switches Standard Management Service	Stackable Layer 3 LAN Switch configurations using 2960S, 3750, EX4200 series LAN Switches	MLS05
	Bidder's Product Description: Supported Stackable Layer 3 LAN Switches: 2960S, 3750, EX4200 Used in Stacks, Layer 3		
	MLAN Advanced Management	MLAN Advanced Management	Multiple (See feature IDs below)
	Bidder's Product Description: MLAN Advanced Management - Advanced Management Service includes all services provided with the Standard Management Service. In addition, the service includes the design, configuration, site installation, test/turn-up, and life cycle management. Management features include: **Proactive and Reactive Fault Management**		

	Feature Name	Feature Description	Bidder's Product Identifier
	Faults on managed elements may be either manually reported (reactive) or system reported. Proactively monitored and managed elements are LAN Catalyst switches and Wireless LAN controllers/switches and access points. **Configuration Management** Configuration Management is the Move, Addition, Change and Deletion (MACD) activities associated with a managed element. **Accounting Management** Ultimately, Accounting Management provides customers with an up-to-date repository of their inventory from an enterprise perspective at a managed element level. **Performance Management** Performance Management includes performance data collection, analysis and reporting, management of software and hardware capacity and service level management and reporting.		
23	Low Complexity LAN Switches Advanced Management Service	Low Complexity LAN Switches LAN Switches Advanced Management Service	MLA01
	Bidder's Product Description: Low Complexity LAN Switches Supported: • Cisco 29xx series • Juniper EX 22xx series		
24	Medium Complexity LAN Switches LAN Switches Advanced Management Service	Medium Complexity LAN Switches LAN Switches Advanced Management Service	MLA02
	Bidder's Product Description: Medium Complexity LAN Switches Supported: • Cisco 3550 Series • Cisco 3560 Series • Cisco 3750 Series (standalone) • Cisco Nexus 2K • Juniper EX 3200 Series		
25	High Complexity LAN Switches LAN Switches Advanced	High Complexity LAN Switches LAN Switches Advanced Management Service	MLA03

	Feature Name	Feature Description	Bidder's Product Identifier
	Management Service		
	Bidder's Product Description: High Complexity LAN Switches Supported: • Cisco 4500 Series • Cisco 4900 Series • Cisco 6500 Series • Cisco 7600 Series • Cisco Nexus 5K • Cisco Nexus 7K • Juniper EX4200 Series • Juniper EX4500 Series • Juniper EX8200 Series		
26	Stackable Layer 2 LAN Switch configurations using 2960S,3750, EX4200 series LAN switches LAN Switches Advanced Management Service	Stackable Layer 2 LAN Switch configurations using 2960S,3750, EX4200 series LAN switches LAN Switches Advanced Management Service.	MLA04
	Bidder's Product Description: Supported Stackable Layer 2 LAN Switches: 2960S,3750, EX4200		
27	Stackable Layer 3 LAN Switch configurations using 2960S, 3750, EX4200 series LAN switches LAN Switches Advanced Management Service	Stackable Layer 3 LAN Switch configurations using 2960S, 3750, EX4200 series LAN switches LAN Switches Advanced Management Service	MLA05
	Bidder's Product Description: Supported Stackable Layer 3 LAN Switches:		

	Feature Name	Feature Description	Bidder's Product Identifier
	2960S, 3750, EX4200		
	MLAN Professional Services hourly Rates for Non-Standard services and Standard services performed during Non-Standard Business hours	MLAN Professional Services hourly Rates for Non-Standard services and Standard services performed during Non-Standard Business hours	Multiple (See feature IDs below)
	Bidder's Product Description: MLAN Professional Services hourly Rates for Non- Standard services and Standard services performed during Non-Standard Business hours.		
28	Non - Standard Business Hours (Monday Thru Friday)	Non - Standard Business Hours (Monday Thru Friday)	MLP01
	Bidder's Product Description: Non - Standard Business Hours (Monday Thru Friday)		
29	Non Standard Hours (Weekend and Holidays)	Non Standard Hours (Weekend and Holidays)	MLP02
	Bidder's Product Description: Non Standard Hours (Weekend and Holidays)		
	MLAN Life Cycle Management Charges Per Site / Per Occurrence during Standard Business Hours (Monday – Friday, 8:00 am – 5:00 pm, Pacific Standard Time in the United States)	MLAN Life Cycle Management Charges Per Site / Per Occurrence during Standard Business Hours (Monday – Friday, 8:00 am – 5:00 pm, Pacific Standard Time in the United States)	Multiple (See feature IDs below)
	Bidder's Product Description:		

	Feature Name	Feature Description	Bidder's Product Identifier
	MLAN Life Cycle Management Charges Per Site / Per Occurrence during Standard Business Hours (Monday – Friday, 8:00 am – 5:00 pm, Pacific Standard Time in the United States)		
30	LAN/WLAN - Soft MACD Level 1	LAN/WLAN - Soft MACD Level 1	MC01R
	Bidder's Product Description: Any software change to a phone instrument, voice mailbox, IP Telephony device, LAN or WLAN device that requires no on-site visit, physical modification, or network downtime. *Level 1 Soft MACDs for LAN/WLAN are included in the Advanced Management rate.		
31	LAN/WLAN - Soft MACD Level 2	LAN/WLAN - Soft MACD Level 2	MC02R
	Bidder's Product Description: Any software change that involves network features or system parameters, requiring no on-site visit or physical modification.		
32	LAN/WLAN - Hard MACD Level	LAN/WLAN - Hard MACD Level	MC03R
	Bidder's Product Description: Service Request which requires a physical change performed by not more than one technician during an on-site visit for an existing, provisioned managed element within an existing managed site. It involves the dispatch of a technician.		
33	LAN/WLAN – Soft MACD Level 1 Expedite	LAN/WLAN– Soft MACD Level 1 Expedite	MC1RE
	Bidder's Product Description: LAN/WLAN– Soft MACD Level 1 Expedite – Less than 5 calendar days		
34	LAN/WLAN - Soft MACD Level 2 Expedite	LAN/WLAN - Soft MACD Level 2 Expedite	MC2RE
	Bidder's Product Description: LAN/WLAN Soft MACD Level 2 Expedite – Less than 9 calendar days.		
	MLAN Life Cycle Management Charges Per Site / Per Occurrence Out of Hours (Monday – Friday,	MLAN Life Cycle Management Charges Per Site / Per Occurrence Out of Hours (Monday – Friday, Pacific Standard Time in the United States)	Multiple (See feature IDs below)

	Feature Name	Feature Description	Bidder's Product Identifier
	Pacific Standard Time in the United States)		
	Bidder's Product Description: MLAN Life Cycle Management Charges Per Site / Per Occurrence Out of Hours (Monday – Friday, Pacific Standard Time in the United States)		
35	LAN/WLAN- Soft MACD Level 1	LAN/WLAN- Soft MACD Level 1	MC01O
	Bidder's Product Description: Any software change to a phone instrument, voice mailbox, IP Telephony device, LAN or WLAN device that requires no on-site visit, physical modification, or network downtime. *Level 1 Soft MACDs for LAN/WLAN are included in the Advanced Management rate.		
36	LAN/WLAN- Soft MACD Level 2	LAN/WLAN- Soft MACD Level 2	MC02O
	Bidder's Product Description: Any software change that involves network features or system parameters, requiring no on-site visit or physical modification.		
37	LAN/WLAN- Hard MACD	LAN/WLAN- Hard MACD	MC03O
	Bidder's Product Description: Service Request which requires a physical change performed by not more than one technician during an on-site visit for an existing, provisioned managed element within an existing managed site. It involves the dispatch of a technician.		
	MLAN Life Cycle Management Charges Per Site / Per Occurrence during Weekends/Holidays	MLAN Life Cycle Management Charges Per Site / Per Occurrence during Weekends/Holidays	Multiple (See feature IDs below)
	Bidder's Product Description: MLAN Life Cycle Management Charges Per Site / Per Occurrence during Weekends/Holidays.		
38	LAN/WLAN - Soft MACD Level 1	LAN/WLAN - Soft MACD Level 1	MC01H

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Any software change to a phone instrument, voice mailbox, IP Telephony device, LAN or WLAN device that requires no on-site visit, physical modification, or network downtime. *Level 1 Soft MACDs for LAN/WLAN are included in the Advanced Management rate.		
39	LAN/WLAN - Soft MACD Level 2	LAN/WLAN - Soft MACD Level 2	MC02H
	Bidder's Product Description: Any software change that involves network features or system parameters, requiring no on-site visit or physical modification.		
40	LAN/WLAN - Hard MACD	LAN/WLAN - Hard MACD	MC03H
	Bidder's Product Description: Service Request which requires a physical change performed by not more than one technician during an on-site visit for an existing, provisioned managed element within an existing managed site. It involves the dispatch of a technician.		
	AT&T Professional and Technical Services	Supplemental Engineering and Technical activities, including but not limited to training, ingress porting, network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon network changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) with the defined deliverable being a design/configuration document. Pricing is based on the below Professional services rates.	See Identifiers below
	Bidder's Product Description: Supplemental Engineering and Technical activities, including but not limited to training, ingress porting, network re-design and re-configuration to support additional protocols, re-addressing of the network and other agreed upon network changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) with the defined deliverable being a design/configuration document. Pricing is based on the below Professional services rates. These services do not include physical or logical changes to a managed network device.		
41	AT&T Technical Services Support I - Standard Hours/Regular Rate (8am - 5pm local time)	Basic Network Skillset -Standard Hours: Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment.	ATTFE1

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Basic Network Skillset - Standard Hours: Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment.		
42	AT&T Technical Services Support I - Non-Standard Hours	Basic Network Skillset - Non Standard Hours Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment.	ATTFE12
	Bidder's Product Description: Basic Network Skillset - Non Standard Hours Pre or Post implementation site survey and network support. Provides basic Networking skills. For Example: Installs equipment, powers up equipment. Performs Cross Connects. Places Phone sets. Inventory equipment.		
43	AT&T Technical Services Support II - Standard Hours/Regular Rate (8am - 5pm local time)	Basic Plus Network Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches and firewalls.	ATTFE2
	Bidder's Product Description: Basic Plus Network Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches and firewalls.		
44	AT&T Technical Services Support II - Non-Standard Hours	Basic Plus Network Skillset - Non Standard Hours: Pre or Post-implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches.	ATTFE22
	Bidder's Product Description: Basic Plus Network Skillset - Non Standard Hours: Pre or Post-implementation site survey and network design. Provides advanced networking skills. For example Conducts assessments for complex installations or network solutions. Network configurations of router, switches.		
45	AT&T Network Engineer - Standard	Advanced Network Engineering Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation	ATTNC1

	Feature Name	Feature Description	Bidder's Product Identifier
	Hours/Regular Rate (8am - 5pm local time)	and tests interoperability with other products For example: Network configurations of router, switches, Firewall & VoIP.	
	Bidder's Product Description: Advanced Network Engineering Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example Network configurations of router, switches, Firewall & VoIP.		
46	AT&T Network Engineer - Non-Standard Hours	Advanced Network Engineering Skillset - Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Network configurations of router, switches, Firewall & VoIP.	ATTNC12
	Bidder's Product Description: Advanced Network Engineering Skillset - Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Network configurations of router, switches, Firewall & VoIP.		
47	AT&T Network Engineer II - Standard Hours/Regular Rate (8am - 5pm local time)	Advanced Plus Network Engineering Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN.	ATTNC2
	Bidder's Product Description: Advanced Plus Network Engineering Skillset - Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN.		
48	AT&T Network Engineer II - Non-Standard Hours	Advanced Plus Network Engineering Skillset - Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN.	ATTNC22
	Bidder's Product Description:		

	Feature Name	Feature Description	Bidder's Product Identifier
	Advanced Plus Network Engineering Skillset - Non-Standard Hours: Pre or Post-implementation site survey and network design. Performs advanced on-site installation and tests interoperability with other products For example: Complex Network configurations of router, switches, Firewall & VoIP. Skillset to understand MPLS and SDN.		
49	AT&T Professional Services - Senior Engineer - Standard Hours/Regular Rate (8am - 5pm local time)	Professional Network Engineer: Person may hold a degree or industry certifications in specific specialization. Security, cyber security, disaster recovery and business continuity and Advanced networking specific to manufacturer.	ATTSC
	Bidder's Product Description: Professional Network Engineer: Person may hold a degree or industry certifications in specific specialization. Security, cyber security, disaster recovery and business continuity and Advanced networking specific to manufacturer.		
50	AT&T Professional Services Principle Architect I - Standard Hours/Regular Rate (8am - 5pm local time)	Multi-Skillset Individual providing Network oversight: Pre or Post-implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices, conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies.	ATTPA
	Bidder's Product Description: Multi-Skillset Individual providing Network oversight: Pre or Post-implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices, conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies.		
51	AT&T Professional Services - Principal Architect II - Standard Hours/Regular Rate (8am - 5pm local time)	Multi-Skillset Individual providing network design function and oversight. Pre or Post-implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices. Works with customer to integrate legacy technology, Conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies, continuity and Advanced networking specific to manufacturer.	ATTPA2

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: Multi-Skillset Individual providing network design function and oversight. Pre or Post-implementation site survey and network design. Provides highly advanced consulting skills across multiple disciplines. For Example, Security, Networking, MPLS, Standards and best practices. Works with customer to integrate legacy technology, conducts assessments, design, and overall technical oversight for highly complex installations involving multiple technologies.		

1.2.3.2.5 Converged VoIP Site Survey

The Contractor shall provide site survey, design, and implementation of Converged VoIP services which shall be included in the nonrecurring per seat price.

The Contractor shall perform an assessment of the environment to identify all required components and tasks needed for implementation of this service.

The Site Survey will include the completion of the Contractor's Site Survey Assessment form that will identify the steps required to facilitate a successful implementation of the Converged VoIP services. Upon completion of the survey, the Contractor shall provide the Customer a copy of the completed Site Survey Assessment form. The Site Survey Assessment form will identify potential deficiencies found at the location and the necessary steps that will be required to correct them so that the Customer can order and implement Converged VoIP services.

The Contractor shall certify existing cabling. The Bidder shall describe in detail and list all cabling requirements that must be met by the Customer to certify existing horizontal cabling for Converged VoIP services.

Bidder understands the requirements in Section 1.2.3.2.5 and shall meet or exceed them?
Yes **X** *No*_____

Description:

Converged VoIP Site Survey

AT&T will provide site survey, design, and implementation of Converged VoIP services which shall be included in the nonrecurring per seat price.

AT&T will perform an assessment of the environment to identify all required components and tasks needed for implementation of this service.

The Site Survey will include the completion of a Site Survey Assessment form that will identify the steps required to facilitate a successful implementation of the Converged VoIP services. Upon completion of the survey, AT&T shall provide the Customer a copy of the completed Site Survey Assessment form. The Site Survey Assessment form will identify potential deficiencies found at the location and the necessary steps that will be required to correct them so that the Customer can order and implement Converged VoIP services.

AT&T shall review the Customer's existing network (Legacy Network), including its LAN and existing facilities, to verify, among other things, that it is capable of supporting the AT&T VoIP Services, including, but not limited to, ensuring the necessary configurations and equipment and deployment requirements can be satisfied. AT&T will then provide the appropriate recommendations in the VoIP Solution document.

AT&T will conduct a Site Survey, during which the AT&T technician(s) or assigned engineer(s) will perform the following activities at the Customer Site:

- Visually verify the existence, quantity, and condition of voice and data cabling with regards to the Service requirements.
- Verify electrical power is available at each proposed handset location by visually checking electrical outlet or Legacy Equipment Power over Ethernet (POE) availability.
- Document the existence of a Legacy Equipment Switch (Legacy Switch) along with its make and model and number of available ports. Verify that Legacy Switches are not chained together more than five deep.
- Verify the existence of a suitable DHCP server.
- Review AT&T VoIP Services features to be ordered for the Customer.

As part of the Site survey, AT&T will certify existing cabling. The following is a description of the requirements that must be met to certify existing horizontal cabling for Converged VoIP services:

Horizontal Cable Certification Requirements and Recommendations

Cable Determination

Based on the IEEE 802.3at standard, it is required to meet a Category 5 transmission performance for 100-meter channel in support of VoIP. Although minimum cable compliance for VoIP begins at Category 5, bandwidth requirements and the capability of the new network gear will dictate ultimate cable connectivity requirements. If any site contains

cable less than Category 5, it will be recommended to replace the existing cable with a current category 6A cable solution, capable of supporting 10G technology.

VoIP technology now employees PoE (Power over Ethernet), which places further stress on the lower grade Cat5e channel network. Rather than the use of local power, most VoIP devices can now be powered remotely from the TC through the use of a PoE layer-3 switch. The migration of legacy voice communications systems to VoIP solutions increases the importance of having a standards compliant structured cabling system.

However, while Category 5, 5e, and 6 cabling will support the convergence of voice and data, we believe that it will take Category 6a – 10 Gigabit Ethernet – to ensure the bandwidth necessary to support a totally converged, "smart building" environment. The 10Gb/s cabling today supports the bandwidth needs of today's enterprises as well as the needs of more demanding applications such as high resolution streaming video, grid computing, switch-to-server connectivity and Storage Area Network/Network Attached Storage. And with 10Gb/s UTP standard being delivered this summer, it could bring on the reality of convergence even sooner than anyone ever expected.

Consideration must also be given to the continuous current handling capability of the connecting hardware and outlet connector. The maximum continuous output current from the PSE under normal mode is 600 mAdc (over 1-pair or 300 mAdc per conductor). The connecting hardware and telecommunications outlet connector should be able to handle this current.

Testing & Certification

Testing and certification of a number of random horizontal cables should be performed to confirm they pass testing without any marginal notations for respective category and type of cable and follow the guidelines set forth in the following standard:

ANSI/TIA-1152–2009, Requirements for Field Test Instruments and Measurements for Balanced Twisted-Pair Cabling. This standard includes requirements for field test instruments that are used to test balanced twisted-pair cabling as specified in the ANSI/TIA-568-C series of structured cabling standards. This standard specifies the reporting and accuracy performance requirements of field testers for balanced twisted-pair cabling measurements. Level IIe, III, and IIIe field tester requirements are specified in this standard. This standard contains methods to compare the field instrument measurements against laboratory equipment measurement specified in ANSI/TIA-568-C.2. Measurement accuracy based upon the assumptions for key performance parameters is addressed.

All workstation faceplate and patch panel termination points should be marked with the cable/drop number. Any existing cabling installation should meet the following administration standards:

ANSI/TIA-606-B-2012, Administration Standard for Commercial Telecommunications Infrastructure. This standard specifies administration systems for commercial telecommunications infrastructure with choices of classes of administration for maintaining telecommunications infrastructure. This infrastructure may range in size from a building requiring a single telecommunications space (TS) and associated elements to many TSs and associated elements in multiple campus locations. This standard applies to administration of telecommunications infrastructure in existing, renovated, and new buildings.

Pathways

All existing support infrastructure should comply with the following pathway standard:

ANSI/TIA-569-C–2012, *Telecommunications Pathways and Spaces.* This standard is limited to the telecommunications aspect of commercial building design and construction, encompassing telecommunications pathways and spaces. Telecommunications pathways are designed for installation of telecommunications media, and telecommunications spaces are the rooms and areas where media is terminated and telecommunications equipment is installed. Both single- and multi-tenant buildings are recognized by this standard.

It is important to note that a transition to a converged VoIP system with existing cabling infrastructure and the pathway support system may have an impact on the long term performance of the cable. Maintaining minimum bend radius, stress from weight between supports may often not show up in the initial installation test results. However, over time and changing environmental conditions, these items can impact the top end performance of the channel.

1.2.3.2.6 Converged VoIP Network LAN Assessment

The Contractor shall perform a network LAN Assessment to address the following at no charge:

1. Health of the network;
2. Bandwidth requirements;
3. Power requirements;
4. Firewall requirements; and,
5. E9-1-1 requirements.

The Contractor shall perform a network VoIP LAN Assessment for Customer locations to determine the readiness of the network infrastructure to support VoIP traffic. The VoIP LAN Assessment shall identify network and equipment impairments that would cause VoIP to fail.

The Contractor shall measure network infrastructure performance by electronically passing the amount of simulated traffic expected under a VoIP implementation and measuring network infrastructure performance under the increased traffic load.

The Contractor shall provide a corrective action plan that identifies any corrective actions required by the Customer for the Customer's LAN to support the Converged VoIP service.

Upon written confirmation from Customer that the specifically identified corrective actions have been completed, Contractor shall perform any additional LAN Assessments to identify corrective actions required to insure proper operation of the service.

The Contractor shall provide an option for retesting the LAN as described within this Section.

The Contractor shall develop a Scope of Work (SOW) for each location as described in IFB Section A.6 (Contracted Service Project Work).

This service shall only be used for the purposes of determining Customer's site readiness for provisioning of the Contractor's Converged VoIP services under this Contract.

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

1.2.3.2.7 Converged Site Design

The Contractor shall perform design services for each VoIP deployment. The design services shall include engineering and documentation of all components required for proper implementation of the VoIP service. The site design service will be provided after a Customer has placed an order for Converged VoIP services and before implementation.

The Contractor shall complete a network design for implementation of Converged VoIP service for each Customer location.

The Contractor shall provide Visio Diagram(s) that details the Converged VoIP design for each location including the Customer Premise Equipment (CPE) and VoIP Transport bandwidth that will be installed.

During the network design, the proper grade of service will be engineered and bandwidth allocated to allow all simultaneous channels to be active with no degraded service.

The network design will indicate the Voice Compression CODEC that will be used, the number of simultaneous calls that the network will be able to handle for the P.01 grade of service and the total VoIP transport bandwidth that will be available at the location.

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

1.2.3.2.8 Converged VoIP Site Implementation

The Contractor shall install all on-site equipment at the Customer location implementing a Converged VoIP service. The installation will commence after Customer approval following completion of the Site Survey, and network Design phase.

The Contractor shall install all appropriate components detailed in Section 1.2.3.2.1 (Converged VoIP Minimum Requirements). This includes, but is not limited to, software, a router, firewall, VoIP handsets and required analog phone adapters. The Customer shall be responsible for the required LAN components.

The Contractor shall test the complete system, all phones and associated equipment. The Contractor shall provide written test results to the Customer to assist Customer in determination of the final acceptance.

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

1.2.3.2.9 Converged VoIP Account Codes

The Contractor's system shall allow the Customer to utilize account codes which enable the tracking of calls made outside of the location by prompting subscribers for an account code.

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

1.2.3.2.10 Converged VoIP Authorization Codes

The Contractor's system shall allow the Customer to utilize Authorization Codes. This feature allows Customers to enable a prompt for an Authorization Code when making calls outside of the location. Calls will not be connected unless a valid code is entered.

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

1.2.3.3 Additional Converged VoIP Services and Features

The Contractor shall provide the additional Converged VoIP services and features described below.

1.2.3.3.1 Converged VoIP Site Survivability Network Failure

The Contractor shall provide an option for Converged VoIP site survivability in the event of a network failure. Site Survivability Network Failure is an option where, in the event of a network failure, calling functionality is maintained for all handsets on premise. The installation of an on premise gateway to connect to the PSTN is an acceptable solution.

Failure of a Customer to select this option does not release the Contractor from its SLA obligations as described in Section 1.2.9.8.1 (Availability SLAs).

This solution is for backup purposes only. The Contractor shall not promote, design or offer this service as a standalone primary service and it shall only be used in conjunction with the Converged VoIP Service. Connections to the PSTN shall only be used in the event of Converged VoIP Service failure.

The Contractor shall only route traffic originating from the locally served Customer of record. No other traffic is permitted.

The Converged VoIP Site Survivability Network Failure solution shall provide automatic alarm notification by electronic means to the CALNET 3 CMO whenever traffic is routed through the gateway to the PSTN via locally connected circuits.

This service is exempt from the provisions of Section 1.2.3.1.6 (Network Based).

Bidder shall describe their CALNET 3 Network Failure Site Survivability solution.

Any Bidder proposed additional unsolicited local gateway site survivability solutions must conform to these requirements and will fall under the SLA's established in Section 1.2.9 (Service Level Agreements).

Bidder understands the requirements in Section 1.2.3.3.1 and shall meet or exceed them?
Yes **X** *No*_____

Description:

Voice DNA Site Survivability

VoIP Demarc/Site Survivability is provided by deploying an EdgeMarc device, also called the AT&T Managed Integration Device (MID), at the customer's premises. The MID functions as the service demarcation point for Voice DNA on AVPN. The MID is managed by AT&T. The MID's role as a demarcation device is to allow AT&T to manage the customer's Voice DNA network based service. Management includes:

- Maintenance of EdgeMarc MID;
- 911 move detection & restriction;

- Performance reporting; and,
- Site Survivability (optional) via POTS or PRI access to the MID.

VoIP Demarc/Site Survivability Option provides continuity of AT&T VDNA® service in the event of a failure of a customer's connectivity to the AT&T network by routing calls over the Public Switched Telephone Network (PSTN).

This option provides call routing under three scenarios:

- On-LAN calls (off-site);
- Off-LAN calls over POTS or PRI lines to PSTN network; and,
- Incoming calls on POTS or PRI lines routed to the location's Default Calling Number (DCN).

This functionality is provided by an AT&T-managed EdgeMarc device installed on the customer site between the managed router and the LAN switch.

FXO ports are used for failover to the PSTN and FXS ports are for analog phone adapters (phone or fax). All FXO ports on a device must be enabled with a POTS or PRI connection.

In normal operational mode with, the device will operate in a pass-through mode and will be transparent to the rest of the architecture. This is equivalent to approximately 120-150 users per site. The number of concurrent calls supported in survivability mode is limited by the EdgeMarc model.1.2.3.3.2 Converged VoIP Network LAN Assessment Retest

> If required, Contractor shall perform a network LAN Assessment retest in accordance with the provisions of Section 1.2.3.2.6 (Converged VoIP Network LAN Assessment) to validate corrective actions have been completed that allow for proper operation of the service.
>
> *Bidder understands the requirement and shall meet or exceed it? Yes* **X** *No* _____

1.2.3.3.3 Converged VoIP Block of 20 Additional Direct Inward Dialing (DID) Number Reservation

> Contractor shall provide an option that allows the Customer to purchase an additional block of 20 DID numbers. This block will be used to reserve additional blocks of DID numbers for future requirements (20 per block) this charge shall only apply for the reservation of the block of numbers. Upon utilization of all 20 DIDs, this charge shall be terminated.

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

1.2.3.3.4 Converged VoIP Web Based Attendant Console

The Contractor shall provide a Converged VoIP web-based Attendant Console that enables a subscriber (e.g., receptionist) to monitor a configurable set of subscribers at the same location as the Attendant. The Attendant Console shall graphically display subscribers' status (busy, idle, do not disturb), as well as detailed call information. The Attendant Console window shall allow the attendant to perform click-to-transfer or click-to-dial.

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

1.2.3.3.5 Converged VoIP Additional Line Appearance

The Contractor shall provide additional line appearances for multi-line phones.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.3.3.6 Converged VoIP Analog and Facsimile Support

The Contractor shall provide analog device or facsimile support services that will:

- Provide Auto Detection of voice or fax;
- Provide Facsimile over TCP/IP; and,
- Provide Fax Messaging.

The network will automatically detect a voice or fax call and use the correct compression code.

The Contractor shall furnish, install and support all equipment for proper operation of the Customer analog device.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

Contractor shall offer the Converged VoIP service features detailed in Table 1.2.3.3.a.

Table 1.2.3.3.a Converged VoIP Service Features

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Converged VoIP Site Survivability Network Failure	Site survivability option	Y		UCSS

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
	Bidder's Product Description: UC Voice Site Survivability				
2	Converged VoIP Network LAN Assessment Retest	Additional test beyond the initial LAN Assessment test as identified in Section (1.2.3.2.6) Converged VoIP Network LAN Assessment [per seat].	Y		LANAST
	Bidder's Product Description: Additional LAN Assessment Test (Per Seat)				
3	Converged VoIP Block of 20 Additional Direct Inward Dialing (DID) Number Reservation	Block of 20 DID numbers held in reservation.	Y		DID20
	Bidder's Product Description: 20 DID number reservation				
4	Converged VoIP Web Based Attendant Console	Also known as Receptionist. Enables a subscriber (e.g., receptionist) to monitor a configurable set of subscribers	Y		CWAC
	Bidder's Product Description: Web Based Attendant Console				
5	Converged VoIP Additional Line Appearance	Additional line appearances for multi-line handsets.	Y		ALA
	Bidder's Product Description: Multiple Line Appearance				
6	Converged VoIP Analog and Facsimile Support	Analog device or facsimile support	Y		ADFS
	Bidder's Product Description: Analog device or facsimile support				

The Contractor may offer additional unsolicited Converged VoIP service features in Table 1.2.3.3.b.

Table 1.2.3.3.b Unsolicited Converged VoIP service features

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		
	Bidder's Product Description:		

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1.2.3.4 Converged VoIP Calling Requirements

The Contractor shall provide the Converged VoIP calling solutions described below.

1.2.3.4.1 Converged VoIP On-Net Calling

The Contractor shall provide a Converged VoIP service that provides unlimited on-net calling for both domestic and international calls at no additional charge. On-net calling is defined as calling from a Converged VoIP Customer Site that uses the Contractors VoIP network and terminates at another Converged VoIP site. If the Contractor offers SIP Trunking or Standalone VoIP under another CALNET contract, Converged VoIP calls terminating at such a site shall be considered on-net.

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

1.2.3.4.2 Converged VoIP Off-Net Calling

The Contactor shall provide off-net calling at no additional charge. The Converged VoIP service will route call traffic off the VoIP network within the 50 United States, the District of Columbia, the Virgin Islands, and Puerto Rico. This will be accomplished using network based PSTN gateways.

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

1.2.3.4.3 On-Net Enterprise Calling

The Contractor shall treat the State of California as a single enterprise for the purpose of on-net calling. On-net calling from one (1) State of California Agency/Department to another shall be treated the same as on-net calling within a State of California Agency or Department.

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

1.2.3.4.4 Converged Off-Net Toll-Free

The Contractor shall provide Converged off-net toll-free services that shall only be provided by the Converged VoIP Contractor and shall not be provided by a third party. This service shall only be utilized in conjunction with the awarded Contractor's VoIP service. The Converged VoIP service allows Customers to receive off-net toll-free calls from the 50 United States, the District of Columbia, the U.S. Virgin Islands, and Puerto Rico. The Contractor's CALNET 3 approved applicable rates shall apply.

Table 1.2.3.4.4.a, Converged VoIP Off-Net Toll-Free

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Converged VoIP Off-Net Toll-Free	Allows a Customer to receive off-net toll-free calls from the 50 United States, the District Of Columbia, the Virgin Islands, and Puerto Rico.	Y		VIEEUS, VIRRUS
	Bidder's Product Description: Customers will be able to make and receive Off-Net Toll Free calls from all 50 states in the U.S., the District of Columbia, the Virgin Islands, and Puerto Rico.				

The Contractor may offer additional Converged VoIP Off-Net Toll-Free features in Table 1.2.3.4.4.b.

Table 1.2.3.4.4.b Unsolicited Converged VoIP Off-Net Toll-Free Features

	Feature Name	Feature Description	Bidder's Product Identifier
1	IP Toll Free Advanced Features	IP Toll Free Advanced Features	Multiple
	Bidder's Product Description: IP Toll free advanced announcement, routing and control features.		
2	Call Transfer/Transfer Connect – Courtesy Transfer	Call Transfer/Transfer Connect – Courtesy Transfer	E8UC1
	Bidder's Product Description: Courtesy Transfer allows the agent to transfer a caller to another AT&T toll free number, RRN or a Plain Old Telephone Service (POTS) line, in the same building or another location, without remaining on the line.		
3	Call Transfer/Transfer Connect – Consult and Transfer	Call Transfer/Transfer Connect – Consult and Transfer	E8YC2
	Bidder's Product Description: Consult and Transfer allow the agent to transfer a call similarly to the Courtesy Transfer option however, the transferring agent is able to remain on the call until ringing is heard or the call is answered. At that point, the transferring agent is dropped.		

	Feature Name	Feature Description	Bidder's Product Identifier
4	Call Transfer/Transfer Connect – Conference and Transfer	Call Transfer/Transfer Connect – Conference and Transfer	E8YPC
	Bidder's Product Description: Conference & Transfer allows an agent to consult with the target party prior to adding the caller to a three-way conference. Following the three-way conference, the caller may remain connected to the agent or the target party.		
5	Message Announcement	Message Announcement	E8U
	Bidder's Product Description: The caller hears a pre-recorded promotional or informational message prior to, during, or after the call is routed to the caller-selected destination.		
6	Network Queuing	Network Queuing	E8GNQ
	Bidder's Product Description: Network Queuing will allow a call to be held in queue in the AT&T network until the termination becomes available.		
7	Network Queuing	Network Queuing	TFNQA
	Bidder's Product Description: Network Queuing will allow a call to be held in queue in the AT&T network until the termination becomes available.		
8	Percentage Allocation Routing/Quick Call Allocator	Percentage Allocation Routing/Quick Call Allocator	TFQCA
	Bidder's Product Description: This offering provides the owner of the each Toll Free number the ability to allocate calls to different locations or terminations on a percentage basis.		

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1.2.3.4.5 Converged International Off-Net Calling

The Contractor shall provide Converged VoIP international off-net calling to the countries listed in Table 1.2.3.3.5. Bidder's rates as provided in the Subcategory Cost Worksheets shall be based on time of day ("Peak Time" or "Off–Peak Time"). Peak Time is between 8:00 a.m. and 4:59 p.m., Monday through Friday based on the time at the CALNET caller's location. Off-Peak time is for all calls where Peak Time rates do not apply.

All usage shall be billed in accordance with the Business Requirements Section A.5.1 (Billing and Invoicing Requirements #11) except Mexico which shall be billed in 60 second increments with a 60 second minimum.

Note: If the Bidder charges the same rate for both Peak Time and Off-Peak time, Bidder may use the same Product Identifier for both products.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ *No* _____

1.2.3.4.5.1 International Mobile Termination Charges (IMTC)

Contractor shall provide the ability to terminate international calls on wireless devices. Contractor shall charge International Mobile Termination Charge (IMTC) as an additional per minute rate that is applied to international calls (direct dial business or credit card calls) originating in the U.S. and terminating in certain countries to either wireless communications devices including mobile telephones, pagers, personal computers, and personal digital assistants, or to a portable telephone number where a forwarding, tracking or other type of location service is used.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ *No* _____

1.2.3.4.5.2 U.S. Based Services Waiver

The provisions detailed in IFB-A Section A.2.4.4 (U.S. Based Services) will not apply to Contractor's International Long Distance Calling services.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ *No* _____

The Contractor shall offer the Converged VoIP International Off-Net Calling configurations detailed in Table 1.2.3.4.5.a.

Table 1.2.3.4.5.a Converged VoIP International Off-Net Calling

	Country	Bidders Meets or Exceeds? Y N		Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
1	Brazil:	Y		IPINBZ	IPINBZ	IPIMBZ
2	Canada:	Y		IPINCAN	IPINCAN	IPIMCAN
3	China:	Y		IPINCH	IPINCH	IPIMCH
4	France:	Y		IPINFR	IPINFR	IPIMFR
5	Germany:	Y		IPINGER	IPINGER	IPIMGER
6	Israel:	Y		IPINIS	IPINIS	IPIMIS
7	Italy:	Y		IPINIT	IPINIT	IPIMIT
8	Japan:	Y		IPINJP	IPINJP	IPIMJP
9	Korea:	Y		IPINSK	IPINSK	IPIMSK
10	Mexico:	Y		IPINMX	IPINMX	IPIMMX
11	Spain:	Y		IPINSP	IPINSP	IPIMSP
12	Switzerland:	Y		IPINSW	IPINSW	IPIMSW
13	United Kingdom:	Y		IPINUK	IPINUK	IPIMUK

Bidder's may offer the Converged VoIP International Off-Net Calling to unsolicited countries listed in Table 1.2.3.4.5.b.

Table 1.2.3.4.5.b Unsolicited Converged VoIP International Off-Net Calling

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
1	Afghanistan	IPINAFG	IPINAFG	IPINAFG
2	Albania	IPINALB	IPINALB	IPINALB
3	Algeria	IPINALG	IPINALG	IPINALG
4	American Samoa	IPINAMS	IPINAMS	IPINAMS
5	Andorra	IPINAND	IPINAND	IPINAND
6	Angola	IPINAGL	IPINAGL	IPINAGL
7	Anguilla	IPINAGU	IPINAGU	IPINAGU
8	Antarctica (Casey)	IPINANC	IPINANC	IPINANC
9	Antarctica (Scott)	IPINANS	IPINANS	IPINANS

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
10	Antigua and Barbuda	IPINANT	IPINANT	IPINANT
11	Argentina	IPINARG	IPINARG	IPINARG
12	Armenia	IPINARM	IPINARM	IPINARM
13	Aruba	IPINARU	IPINARU	IPINARU
14	Ascension Island	IPINASC	IPINASC	IPINASC
15	Australia	IPINAST	IPINAST	IPINAST
16	Austria	IPINAUS	IPINAUS	IPINAUS
17	Azerbaijan	IPINAZE	IPINAZE	IPINAZE
18	Bahamas	IPINBAH	IPINBAH	IPINBAH
19	Bahrain	IPINBHR	IPINBHR	IPINBHR
20	Bangladesh	IPINBAN	IPINBAN	IPINBAN
21	Barbados	IPINBAR	IPINBAR	IPINBAR
22	Belarus	IPINBLR	IPINBLR	IPINBLR
23	Belgium	IPINBLG	IPINBLG	IPINBLG
24	Belize	IPINBLZ	IPINBLZ	IPINBLZ
25	Benin	IPINBEN	IPINBEN	IPINBEN
26	Bermuda	IPINBER	IPINBER	IPINBER
27	Bhutan	IPINBHU	IPINBHU	IPINBHU
28	Bosnia and Herzegovina	IPINBOL	IPINBOL	IPINBOL
29	Botswana	IPINBOS	IPINBOS	IPINBOS
30	British Virgin Islands	IPINBVI	IPINBVI	IPINBVI
31	Brunei	IPINBRU	IPINBRU	IPINBRU
32	Bulgaria	IPINBUL	IPINBUL	IPINBUL
33	Burkina Faso	IPINBKF	IPINBKF	IPINBKF
34	Burundi	IPINBUR	IPINBUR	IPINBUR
35	Cambodia	IPINCAM	IPINCAM	IPINCAM
36	Cameroon	IPINCMR	IPINCMR	IPINCMR

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
37	Cape Verde	IPINCAP	IPINCAP	IPINCAP
38	Cayman Islands	IPINCAY	IPINCAY	IPINCAY
39	Central African Republic	IPINCEN	IPINCEN	IPINCEN
40	Chad	IPINCHA	IPINCHA	IPINCHA
41	Chile	IPINCHI	IPINCHI	IPINCHI
42	Christmas Island	IPINCHR	IPINCHR	IPINCHR
43	Cocos Island	IPINCOC	IPINCOC	IPINCOC
44	Colombia	IPINCOL	IPINCOL	IPINCOL
45	Comoros	IPINCOM	IPINCOM	IPINCOM
46	Congo Republic	IPINCOZ	IPINCOZ	IPINCOZ
47	Congo (Zaire), Democratic Rep.	IPINCON	IPINCON	IPINCON
48	Cook Islands	IPINCOO	IPINCOO	IPINCOO
49	Costa Rica	IPINCOS	IPINCOS	IPINCOS
50	Croatia	IPINCRO	IPINCRO	IPINCRO
51	Cuba	IPINCUB	IPINCUB	IPINCUB
52	Cyprus	IPINCYP	IPINCYP	IPINCYP
53	Czech Republic	IPINCZE	IPINCZE	IPINCZE
54	Denmark	IPINDEN	IPINDEN	IPINDEN
55	Diego Garcia	IPINDIE	IPINDIE	IPINDIE
56	Djibouti	IPINDJI	IPINDJI	IPINDJI
57	Dominica	IPINDMC	IPINDMC	IPINDMC
58	Dominican Republic	IPINDMR	IPINDMR	IPINDMR
59	East Timor	IPINEAS	IPINEAS	IPINEAS
60	Ecuador	IPINECU	IPINECU	IPINECU
61	Egypt	IPINEGY	IPINEGY	IPINEGY
62	El Salvador	IPINELS	IPINELS	IPINELS
63	Equatorial Guinea	IPINEQU	IPINEQU	IPINEQU

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
64	Eritrea	IPINERI	IPINERI	IPINERI
65	Estonia	IPINEST	IPINEST	IPINEST
66	Ethiopia	IPINETH	IPINETH	IPINETH
67	Falkland Islands	IPINFAE	IPINFAE	IPINFAE
68	Faroe Islands	IPINFAL	IPINFAL	IPINFAL
69	Federated States of Micronesia	IPINMIC	IPINMIC	IPINMIC
70	Fiji	IPINFIJ	IPINFIJ	IPINFIJ
71	Finland	IPINFIN	IPINFIN	IPINFIN
72	French Antilles	IPINFRE	IPINFRE	IPINFRE
73	French Guiana	IPINFRG	IPINFRG	IPINFRG
74	French Polynesia	IPINFP	IPINFP	IPINFP
75	Gabon	IPINGAB	IPINGAB	IPINGAB
76	Gambia	IPINGAM	IPINGAM	IPINGAM
77	Georgia	IPINGEO	IPINGEO	IPINGEO
78	Ghana	IPINGHA	IPINGHA	IPINGHA
79	Gibraltar	IPINGIB	IPINGIB	IPINGIB
80	Greece	IPINGRE	IPINGRE	IPINGRE
81	Greenland	IPINGRL	IPINGRL	IPINGRL
82	Grenada	IPINGND	IPINGND	IPINGND
83	Guadeloupe	IPINGDL	IPINGDL	IPINGDL
84	Guantanamo	IPINGNT	IPINGNT	IPINGNT
85	Guatemala	IPINGTM	IPINGTM	IPINGTM
86	Guinea	IPINGPR	IPINGPR	IPINGPR
87	Guinea-Bissau	IPINGNB	IPINGNB	IPINGNB
88	Guyana	IPINGUY	IPINGUY	IPINGUY
89	Haiti	IPINHAI	IPINHAI	IPINHAI
90	Honduras	IPINHND	IPINHND	IPINHND
91	Hong Kong	IPINHKG	IPINHKG	IPINHKG

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
92	Hungary	IPINHUN	IPINHUN	IPINHUN
93	Iceland	IPINICE	IPINICE	IPINICE
94	India	IPININ	IPININ	IPININ
95	Indonesia	IPINIDN	IPINIDN	IPINIDN
96	Iran	IPINIRN	IPINIRN	IPINIRN
97	Iraq	IPINIRQ	IPINIRQ	IPINIRQ
98	Ireland	IPINIRE	IPINIRE	IPINIRE
99	Ivory Coast	IPINIVO	IPINIVO	IPINIVO
100	Jamaica	IPINJAM	IPINJAM	IPINJAM
101	Jordan	IPINJOR	IPINJOR	IPINJOR
102	Kazakhstan	IPINKAZ	IPINKAZ	IPINKAZ
103	Kenya	IPINKEN	IPINKEN	IPINKEN
104	Kiribati	IPINKIR	IPINKIR	IPINKIR
105	Korea, Democratic Peoples Rep.	IPINKRN	IPINKRN	IPINKRN
106	Kuwait	IPINKUW	IPINKUW	IPINKUW
107	Kyrgyzstan	IPINKYR	IPINKYR	IPINKYR
108	Laos	IPINLAO	IPINLAO	IPINLAO
109	Latvia	IPINLAT	IPINLAT	IPINLAT
110	Lebanon	IPINLEB	IPINLEB	IPINLEB
111	Lesotho	IPINLES	IPINLES	IPINLES
112	Liberia	IPINLBR	IPINLBR	IPINLBR
113	Libya	IPINLBY	IPINLBY	IPINLBY
114	Liechtenstein	IPINLIE	IPINLIE	IPINLIE
115	Lithuania	IPINLIT	IPINLIT	IPINLIT
116	Luxembourg	IPINLUX	IPINLUX	IPINLUX
117	Macao	IPINMAC	IPINMAC	IPINMAC
118	Macedonia	IPINMCD	IPINMCD	IPINMCD
119	Madagascar	IPINMAD	IPINMAD	IPINMAD

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
120	Malawi	IPINMLW	IPINMLW	IPINMLW
121	Malaysia	IPINMLY	IPINMLY	IPINMLY
122	Maldives	IPINMLD	IPINMLD	IPINMLD
123	Mali	IPINMAL	IPINMAL	IPINMAL
124	Malta	IPINMLT	IPINMLT	IPINMLT
125	Marshall Islands	IPINMAR	IPINMAR	IPINMAR
126	Mauritania	IPINMRT	IPINMRT	IPINMRT
127	Mauritius	IPINMAU	IPINMAU	IPINMAU
128	Mayotte	IPINMAY	IPINMAY	IPINMAY
129	Moldova	IPINMOL	IPINMOL	IPINMOL
130	Monaco	IPINMNC	IPINMNC	IPINMNC
131	Mongolia	IPINMGP	IPINMGP	IPINMGP
132	Montenegro	IPINMON	IPINMON	IPINMON
133	Montserrat	IPINMST	IPINMST	IPINMST
134	Morocco	IPINMOR	IPINMOR	IPINMOR
135	Mozambique	IPINMOZ	IPINMOZ	IPINMOZ
136	Myanmar	IPINMYA	IPINMYA	IPINMYA
137	Namibia	IPINNAM	IPINNAM	IPINNAM
138	Nauru	IPINNAU	IPINNAU	IPINNAU
139	Nepal	IPINNEP	IPINNEP	IPINNEP
140	Netherlands	IPINNTA	IPINNTA	IPINNTA
141	Netherlands Antilles	IPINNET	IPINNET	IPINNET
142	Nevis	IPINNEV	IPINNEV	IPINNEV
143	New Caledonia	IPINNCD	IPINNCD	IPINNCD
144	New Zealand	IPINNZD	IPINNZD	IPINNZD
145	Nicaragua	IPINNIC	IPINNIC	IPINNIC
146	Niger	IPINNGR	IPINNGR	IPINNGR
147	Nigeria	IPINNIG	IPINNIG	IPINNIG

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
148	Niue	IPINNIU	IPINNIU	IPINNIU
149	Norfolk Island	IPINNFK	IPINNFK	IPINNFK
150	Norway	IPINNOR	IPINNOR	IPINNOR
151	Oman	IPINOMA	IPINOMA	IPINOMA
152	Pakistan	IPINPAK	IPINPAK	IPINPAK
153	Palau	IPINPAL	IPINPAL	IPINPAL
154	Panama	IPINPAN	IPINPAN	IPINPAN
155	Papua New Guinea	IPINPAP	IPINPAP	IPINPAP
156	Paraguay	IPINPAR	IPINPAR	IPINPAR
157	Peru	IPINPER	IPINPER	IPINPER
158	Philippines	IPINPHI	IPINPHI	IPINPHI
159	Poland	IPINPOL	IPINPOL	IPINPOL
160	Portugal	IPINPOR	IPINPOR	IPINPOR
161	Qatar	IPINQAT	IPINQAT	IPINQAT
162	Reunion	IPINREU	IPINREU	IPINREU
163	Romania	IPINROM	IPINROM	IPINROM
164	Russia	IPINRUS	IPINRUS	IPINRUS
165	Rwanda	IPINRWA	IPINRWA	IPINRWA
166	Saint Helena	IPINSTH	IPINSTH	IPINSTH
167	Saint Kitts	IPINSTK	IPINSTK	IPINSTK
168	Saint Lucia	IPINSTL	IPINSTL	IPINSTL
169	Saint Pierre and Miquelon	IPINSTP	IPINSTP	IPINSTP
170	Saint Vincent and The Grenadines	IPINSTV	IPINSTV	IPINSTV
171	San Marino	IPINSAN	IPINSAN	IPINSAN
172	Sao Tome and Principe	IPINSAO	IPINSAO	IPINSAO
173	Saudi Arabia	IPINSAU	IPINSAU	IPINSAU
174	Senegal	IPINSEN	IPINSEN	IPINSEN

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
175	Serbia	IPINSBA	IPINSBA	IPINSBA
176	Seychelles	IPINSEY	IPINSEY	IPINSEY
177	Sierra Leone	IPINSIE	IPINSIE	IPINSIE
178	Singapore	IPINSIN	IPINSIN	IPINSIN
179	Slovakia	IPINSVK	IPINSVK	IPINSVK
180	Slovenia	IPINSVN	IPINSVN	IPINSVN
181	Solomon Islands	IPINSOL	IPINSOL	IPINSOL
182	Somalia	IPINSOM	IPINSOM	IPINSOM
183	South Africa	IPINSOU	IPINSOU	IPINSOU
184	Sri Lanka	IPINSRI	IPINSRI	IPINSRI
185	Sudan	IPINSUD	IPINSUD	IPINSUD
186	Suriname	IPINSUR	IPINSUR	IPINSUR
187	Swaziland	IPINSWA	IPINSWA	IPINSWA
188	Sweden	IPINSWE	IPINSWE	IPINSWE
189	Syria	IPINSYR	IPINSYR	IPINSYR
190	Taiwan	IPINTAI	IPINTAI	IPINTAI
191	Tajikistan	IPINTAJ	IPINTAJ	IPINTAJ
192	Tanzania	IPINTAN	IPINTAN	IPINTAN
193	Thailand	IPINTHA	IPINTHA	IPINTHA
194	Togo	IPINTOG	IPINTOG	IPINTOG
195	Tonga	IPINTON	IPINTON	IPINTON
196	Trinidad and Tobago	IPINTRI	IPINTRI	IPINTRI
197	Tunisia	IPINTUN	IPINTUN	IPINTUN
198	Turkey	IPINTRK	IPINTRK	IPINTRK
199	Turkmenistan	IPINTKM	IPINTKM	IPINTKM
200	Turks and Caicos Islands	IPINTKC	IPINTKC	IPINTKC
201	Tuvalu	IPINTUV	IPINTUV	IPINTUV
202	Uganda	IPINUGA	IPINUGA	IPINUGA

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
203	Ukraine	IPINUKR	IPINUKR	IPINUKR
204	United Arab Emirates	IPINUAE	IPINUAE	IPINUAE
205	Uruguay	IPINURU	IPINURU	IPINURU
206	Uzbekistan	IPINUZB	IPINUZB	IPINUZB
207	Vanuatu	IPINVAN	IPINVAN	IPINVAN
208	Vatican City	IPINVAT	IPINVAT	IPINVAT
209	Venezuela	IPINVEN	IPINVEN	IPINVEN
210	Vietnam	IPINVIE	IPINVIE	IPINVIE
211	Wallis and Fortuna Islands	IPINWAL	IPINWAL	IPINWAL
212	Western Samoa	IPINWSM	IPINWSM	IPINWSM
213	Yemen	IPINYEM	IPINYEM	IPINYEM
214	Zambia	IPINZAM	IPINZAM	IPINZAM
215	Zimbabwe	IPINZIM	IPINZIM	IPINZIM

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1.2.3.5 Converged VoIP Voice Mail Services

The Contractor shall provide Converged VoIP Voice Mail services that are interoperable and work with Converged VoIP service. The Converged Voice Mail services will include the capability for End-Users to have callers leave a message to be retrieved at a later time.

The service shall allow VoIP Voice Mail End-Users to forward messages to other End-Users in the same VoIP Voice Mail network.

The service shall offer a variety of message length capabilities, greeting and delivery options, broadcast messaging and the ability to transfer to an attendant.

Contractors shall provide the Converged VoIP Voice Mail services feature requirements are listed in Table 1.2.3.5.a.

Table 1.2.3.5.a Converged VoIP Voice Mail Service Features

	Converged VoIP Basic Call Package Features	Bidder Meets or Exceeds? Y	N
1	Minimum message length will be at least two (2) minutes each	Y	
2	Message review, including skip back or ahead	Y	
3	Message saving and erasing	Y	
4	Erased message retrieval before call is ended	Y	
5	Messaging forwarding to another voice mailbox in the system with the ability to append additional comments	Y	
6	Message sending	Y	
7	Password protection	Y	
8	Personalized greetings (both permanent and temporary)	Y	
9	Message waiting indicator signal received at workstation within one (1) minute	Y	
10	Remote access capability from any telephone location on or off net	Y	
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	Y	
12	Web based End-User administration software	Y	
13	Ability to integrate with Unified Messaging applications with no hardware modification	Y	

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

Contractor shall offer the VoIP Voice Mail services and features detailed in Table 1.2.3.5.b.

Table 1.2.3.5.b – VoIP Voice Mail Services and Features

	Feature	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Unique Identifier
1	Converged VoIP Voice Mail	Minimum feature requirements as listed in Table 1.2.3.5.a	Y		SO2BA
	Bidder's Product Description: VoIP Voice Mail Service				

The Contractor may offer additional unsolicited VoIP Voice Mail features in Table 1.2.3.5.c.

Table 1.2.3.5.c Unsolicited VoIP Voice Mail Features

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		
	Bidder's Product Description:		

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1.2.3.6 Converged VoIP and Voice Mail Geographic Requirements

1.2.3.6.1 Converged VoIP and Voice Mail Specific Service Areas

The Contractor shall provide Converged VoIP and VoIP Voice Mail services in the cities specified below. Serving area is defined as within the city limits for each location identified:

1. Sacramento;
2. Oakland;
3. San Francisco;
4. Los Angeles;
5. San Diego; and,
6. San Jose.

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

The Contractor shall provide Converged VoIP and VoIP Voice Mail services where services are currently commercially available by the Bidder.

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

Bidder shall identify the locations where their Converged VoIP and VoIP Voice Mail Services are currently commercially available in Table 1.2.3.6.2.a. Bidders shall indicate the locations where the Contractor provides Converged VoIP and VoIP Voice Mail service. By answering "Yes", the Bidder commits to provide service in that specific location. Bidders shall answer "No" for all locations where service will not be available.

Table 1,2,3,6,2.a Bidder's Converged VoIP and VoIP Voice Mail Services are Commercially Available Areas

		Converged IP		VoIP Voice Mail	
	Service Location	Yes	No	Yes	No
1	Adelanto	Y		Y	
2	Agoura Hills	Y		Y	
3	Alameda	Y		Y	
4	Albany	Y		Y	
5	Alhambra	Y		Y	
6	Aliso Viejo	Y		Y	
7	Alturas	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
8	Amador	Y		Y	
9	American Canyon	Y		Y	
10	Anaheim	Y		Y	
11	Anderson	Y		Y	
12	Angels Camp	Y		Y	
13	Antioch	Y		Y	
14	Apple Valley	Y		Y	
15	Arcadia	Y		Y	
16	Arcata	Y		Y	
17	Arroyo Grande	Y		Y	
18	Artesia	Y		Y	
19	Arvin	Y		Y	
20	Atascadero	Y		Y	
21	Atherton	Y		Y	
22	Atwater	Y		Y	
23	Auburn	Y		Y	
24	Avalon	Y		Y	
25	Avenal	Y		Y	
26	Azusa	Y		Y	
27	Bakersfield	Y		Y	
28	Baldwin Park	Y		Y	
29	Banning	Y		Y	
30	Barstow	Y		Y	
31	Beaumont	Y		Y	
32	Bell	Y		Y	
33	Bell Gardens	Y		Y	
34	Bellflower	Y		Y	
35	Belmont	Y		Y	
36	Belvedere	Y		Y	
37	Benicia	Y		Y	
38	Berkeley	Y		Y	
39	Beverly Hills	Y		Y	
40	Big Bear Lake	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
41	Biggs	Y		Y	
42	Bishop	Y		Y	
43	Blue Lake	Y		Y	
44	Blythe	Y		Y	
45	Bradbury	Y		Y	
46	Brawley	Y		Y	
47	Brea	Y		Y	
48	Brentwood	Y		Y	
49	Brisbane	Y		Y	
50	Buellton	Y		Y	
51	Buena Park	Y		Y	
52	Burbank	Y		Y	
53	Burlingame	Y		Y	
54	Calabasas	Y		Y	
55	Calexico	Y		Y	
56	California City	Y		Y	
57	Calimesa	Y		Y	
58	Calipatria	Y		Y	
59	Calistoga	Y		Y	
60	Camarillo	Y		Y	
61	Campbell	Y		Y	
62	Canyon Lake	Y		Y	
63	Capitola	Y		Y	
64	Carlsbad	Y		Y	
65	Carmel-By-The-Sea	Y		Y	
66	Carpinteria	Y		Y	
67	Carson	Y		Y	
68	Cathedral City	Y		Y	
69	Ceres	Y		Y	
70	Cerritos	Y		Y	
71	Chico	Y		Y	
72	Chino	Y		Y	
73	Chino Hills	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
74	Chowchilla	Y		Y	
75	Chula Vista	Y		Y	
76	Citrus Heights	Y		Y	
77	Claremont	Y		Y	
78	Clayton	Y		Y	
79	Clearlake	Y		Y	
80	Cloverdale	Y		Y	
81	Coachella	Y		Y	
82	Coalinga	Y		Y	
83	Colfax	Y		Y	
84	Colma	Y		Y	
85	Colton	Y		Y	
86	Colusa	Y		Y	
87	Commerce	Y		Y	
88	Compton	Y		Y	
89	Concord	Y		Y	
90	Corcoran	Y		Y	
91	Corning	Y		Y	
92	Corona	Y		Y	
93	Coronado	Y		Y	
94	Corte Madera	Y		Y	
95	Costa Mesa	Y		Y	
96	Cotati	Y		Y	
97	Covina	Y		Y	
98	Crescent City	Y		Y	
99	Cudahy	Y		Y	
100	Culver City	Y		Y	
101	Cupertino	Y		Y	
102	Cypress	Y		Y	
103	Daly City	Y		Y	
104	Dana Point	Y		Y	
105	Danville	Y		Y	
106	Davis	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
107	Del Mar	Y		Y	
108	Del Rey Oaks	Y		Y	
109	Delano	Y		Y	
110	Desert Hot Springs	Y		Y	
111	Diamond Bar	Y		Y	
112	Dinuba	Y		Y	
113	Dixon	Y		Y	
114	Dorris	Y		Y	
115	Dos Palos	Y		Y	
116	Downey	Y		Y	
117	Duarte	Y		Y	
118	Dublin	Y		Y	
119	Dunsmuir	Y		Y	
120	East Palo Alto	Y		Y	
121	El Cajon	Y		Y	
122	El Centro	Y		Y	
123	El Cerrito	Y		Y	
124	El Monte	Y		Y	
125	El Paso De Robles	Y		Y	
126	El Segundo	Y		Y	
127	Elk Grove	Y		Y	
128	Emeryville	Y		Y	
129	Encinitas	Y		Y	
130	Escalon	Y		Y	
131	Escondido	Y		Y	
132	Etna	Y		Y	
133	Eureka	Y		Y	
134	Exeter	Y		Y	
135	Fairfax	Y		Y	
136	Fairfield	Y		Y	
137	Farmersville	Y		Y	
138	Ferndale	Y		Y	
139	Fillmore	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
140	Firebaugh	Y		Y	
141	Folsom	Y		Y	
142	Fontana	Y		Y	
143	Fort Bragg	Y		Y	
144	Fort Jones	Y		Y	
145	Fortuna	Y		Y	
146	Foster City	Y		Y	
147	Fountain Valley	Y		Y	
148	Fowler	Y		Y	
149	Fremont	Y		Y	
150	Fresno	Y		Y	
151	Fullerton	Y		Y	
152	Galt	Y		Y	
153	Garden Grove	Y		Y	
154	Gardena	Y		Y	
155	Gilroy	Y		Y	
156	Glendale	Y		Y	
157	Glendora	Y		Y	
158	Goleta	Y		Y	
159	Gonzales	Y		Y	
160	Grand Terrace	Y		Y	
161	Grass Valley	Y		Y	
162	Greenfield	Y		Y	
163	Gridley	Y		Y	
164	Grover Beach	Y		Y	
165	Guadalupe	Y		Y	
166	Gustine	Y		Y	
167	Half Moon Bay	Y		Y	
168	Hanford	Y		Y	
169	Hawaiian Gardens	Y		Y	
170	Hawthorne	Y		Y	
171	Hayward	Y		Y	
172	Healdsburg	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
173	Hemet	Y		Y	
174	Hercules	Y		Y	
175	Hermosa Beach	Y		Y	
176	Hesperia	Y		Y	
177	Hidden Hills	Y		Y	
178	Highland	Y		Y	
179	Hillsborough	Y		Y	
180	Hollister	Y		Y	
181	Holtville	Y		Y	
182	Hughson	Y		Y	
183	Humboldt	Y		Y	
184	Huntington Beach	Y		Y	
185	Huntington Park	Y		Y	
186	Huron	Y		Y	
187	Imperial	Y		Y	
188	Imperial Beach	Y		Y	
189	Indian Wells	Y		Y	
190	Indio	Y		Y	
191	Industry	Y		Y	
192	Inglewood	Y		Y	
193	Inyo	Y		Y	
194	Ione	Y		Y	
195	Irvine	Y		Y	
196	Irwindale	Y		Y	
197	Isleton	Y		Y	
198	Jackson	Y		Y	
199	Kerman	Y		Y	
200	Kern	Y		Y	
201	King City	Y		Y	
202	Kings	Y		Y	
203	Kingsburg	Y		Y	
204	La Canada Flintridge	Y		Y	
205	La Habra	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
206	La Habra Heights	Y		Y	
207	La Mesa	Y		Y	
208	La Mirada	Y		Y	
209	La Palma	Y		Y	
210	La Puente	Y		Y	
211	La Quinta	Y		Y	
212	La Verne	Y		Y	
213	Lafayette	Y		Y	
214	Laguna Beach	Y		Y	
215	Laguna Hills	Y		Y	
216	Laguna Niguel	Y		Y	
217	Laguna Woods	Y		Y	
218	Lake	Y		Y	
219	Lake Elsinore	Y		Y	
220	Lake Forest	Y		Y	
221	Lakeport	Y		Y	
222	Lakewood	Y		Y	
223	Lancaster	Y		Y	
224	Larkspur	Y		Y	
225	Lassen	Y		Y	
226	Lathrop	Y		Y	
227	Lawndale	Y		Y	
228	Lemon Grove	Y		Y	
229	Lemoore	Y		Y	
230	Lincoln	Y		Y	
231	Lindsay	Y		Y	
232	Live Oak	Y		Y	
233	Livermore	Y		Y	
234	Livingston	Y		Y	
235	Lodi	Y		Y	
236	Loma Linda	Y		Y	
237	Lomita	Y		Y	
238	Lompoc	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
239	Long Beach	Y		Y	
240	Loomis	Y		Y	
241	Los Alamitos	Y		Y	
242	Los Altos	Y		Y	
243	Los Altos Hills	Y		Y	
244	Los Angeles	Y		Y	
245	Los Banos	Y		Y	
246	Los Gatos	Y		Y	
247	Loyalton	Y		Y	
248	Lynwood	Y		Y	
249	Madera	Y		Y	
250	Malibu	Y		Y	
251	Mammoth Lakes	Y		Y	
252	Manhattan Beach	Y		Y	
253	Manteca	Y		Y	
254	Maricopa	Y		Y	
255	Marina	Y		Y	
256	Martinez	Y		Y	
257	Marysville	Y		Y	
258	Maywood	Y		Y	
259	Mcfarland	Y		Y	
260	Mendota	Y		Y	
261	Menlo Park	Y		Y	
262	Merced	Y		Y	
263	Mill Valley	Y		Y	
264	Millbrae	Y		Y	
265	Milpitas	Y		Y	
266	Mission Viejo	Y		Y	
267	Modesto	Y		Y	
268	Monrovia	Y		Y	
269	Montague	Y		Y	
270	Montclair	Y		Y	
271	Monte Sereno	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
272	Montebello	Y		Y	
273	Monterey	Y		Y	
274	Monterey Park	Y		Y	
275	Moorpark	Y		Y	
276	Moraga	Y		Y	
277	Moreno Valley	Y		Y	
278	Morgan Hill	Y		Y	
279	Morro Bay	Y		Y	
280	Mount Shasta	Y		Y	
281	Mountain View	Y		Y	
282	Murrieta	Y		Y	
283	Napa	Y		Y	
284	National City	Y		Y	
285	Needles	Y		Y	
286	Nevada City	Y		Y	
287	Newark	Y		Y	
288	Newman	Y		Y	
289	Newport Beach	Y		Y	
290	Norco	Y		Y	
291	Norwalk	Y		Y	
292	Novato	Y		Y	
293	Oakdale	Y		Y	
294	Oakland	Y		Y	
295	Oakley	Y		Y	
296	Oceanside	Y		Y	
297	Ojai	Y		Y	
298	Ontario	Y		Y	
299	Orange	Y		Y	
300	Orange Cove	Y		Y	
301	Orinda	Y		Y	
302	Orland	Y		Y	
303	Oroville	Y		Y	
304	Oxnard	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
305	Pacific Grove	Y		Y	
306	Pacifica	Y		Y	
307	Palm Desert	Y		Y	
308	Palm Springs	Y		Y	
309	Palmdale	Y		Y	
310	Palo Alto	Y		Y	
311	Palos Verdes Estates	Y		Y	
312	Paradise	Y		Y	
313	Paramount	Y		Y	
314	Parlier	Y		Y	
315	Pasadena	Y		Y	
316	Patterson	Y		Y	
317	Perris	Y		Y	
318	Petaluma	Y		Y	
319	Pico Rivera	Y		Y	
320	Piedmont	Y		Y	
321	Pinole	Y		Y	
322	Pismo Beach	Y		Y	
323	Pittsburg	Y		Y	
324	Placentia	Y		Y	
325	Placerville	Y		Y	
326	Pleasant Hill	Y		Y	
327	Pleasanton	Y		Y	
328	Plymouth	Y		Y	
329	Point Arena	Y		Y	
330	Pomona	Y		Y	
331	Port Hueneme	Y		Y	
332	Porterville	Y		Y	
333	Portola	Y		Y	
334	Portola Valley	Y		Y	
335	Poway	Y		Y	
336	Rancho Cordova	Y		Y	
337	Rancho Cucamonga	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
338	Rancho Mirage	Y		Y	
339	Rancho Palos Verdes	Y		Y	
340	Rancho Santa Margarita	Y		Y	
341	Red Bluff	Y		Y	
342	Redding	Y		Y	
343	Redlands	Y		Y	
344	Redondo Beach	Y		Y	
345	Redwood City	Y		Y	
346	Reedley	Y		Y	
347	Rialto	Y		Y	
348	Richmond	Y		Y	
349	Ridgecrest	Y		Y	
350	Rio Dell	Y		Y	
351	Rio Vista	Y		Y	
352	Ripon	Y		Y	
353	Riverbank	Y		Y	
354	Riverside	Y		Y	
355	Rocklin	Y		Y	
356	Rohnert Park	Y		Y	
357	Rolling Hills	Y		Y	
358	Rolling Hills Estates	Y		Y	
359	Rosemead	Y		Y	
360	Roseville	Y		Y	
361	Ross	Y		Y	
362	Sacramento	Y		Y	
363	Salinas	Y		Y	
364	San Anselmo	Y		Y	
365	San Bernardino	Y		Y	
366	San Bruno	Y		Y	
367	San Buenaventura	Y		Y	
368	San Carlos	Y		Y	
369	San Clemente	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
370	San Diego	Y		Y	
371	San Dimas	Y		Y	
372	San Fernando	Y		Y	
373	San Francisco	Y		Y	
374	San Gabriel	Y		Y	
375	San Jacinto	Y		Y	
376	San Joaquin	Y		Y	
377	San Jose	Y		Y	
378	San Juan Bautista	Y		Y	
379	San Juan Capistrano	Y		Y	
380	San Leandro	Y		Y	
381	San Luis Obispo	Y		Y	
382	San Marcos	Y		Y	
383	San Marino	Y		Y	
384	San Mateo	Y		Y	
385	San Pablo	Y		Y	
386	San Rafael	Y		Y	
387	San Ramon	Y		Y	
388	Sand City	Y		Y	
389	Sanger	Y		Y	
390	Santa Ana	Y		Y	
391	Santa Barbara	Y		Y	
392	Santa Clara	Y		Y	
393	Santa Clarita	Y		Y	
394	Santa Cruz	Y		Y	
395	Santa Fe Springs	Y		Y	
396	Santa Maria	Y		Y	
397	Santa Monica	Y		Y	
398	Santa Paula	Y		Y	
399	Santa Rosa	Y		Y	
400	Santee	Y		Y	
401	Saratoga	Y		Y	
402	Sausalito	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
403	Scotts Valley	Y		Y	
404	Seal Beach	Y		Y	
405	Seaside	Y		Y	
406	Sebastopol	Y		Y	
407	Selma	Y		Y	
408	Shafter	Y		Y	
409	Shasta Lake	Y		Y	
410	Sierra Madre	Y		Y	
411	Signal Hill	Y		Y	
412	Simi Valley	Y		Y	
413	Solana Beach	Y		Y	
414	Soledad	Y		Y	
415	Solvang	Y		Y	
416	Sonoma	Y		Y	
417	Sonora	Y		Y	
418	South El Monte	Y		Y	
419	South Gate	Y		Y	
420	South Lake Tahoe	Y		Y	
421	South Pasadena	Y		Y	
422	South San Francisco	Y		Y	
423	St Helena	Y		Y	
424	Stanton	Y		Y	
425	Stockton	Y		Y	
426	Suisun City	Y		Y	
427	Sunnyvale	Y		Y	
428	Susanville	Y		Y	
429	Sutter Creek	Y		Y	
430	Taft	Y		Y	
431	Tehachapi	Y		Y	
432	Tehama	Y		Y	
433	Temecula	Y		Y	
434	Temple City	Y		Y	
435	Thousand Oaks	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
436	Tiburon	Y		Y	
437	Torrance	Y		Y	
438	Tracy	Y		Y	
439	Trinidad	Y		Y	
440	Truckee	Y		Y	
441	Tulare	Y		Y	
442	Tulelake	Y		Y	
443	Turlock	Y		Y	
444	Tustin	Y		Y	
445	Twentynine Palms	Y		Y	
446	Ukiah	Y		Y	
447	Union City	Y		Y	
448	Upland	Y		Y	
449	Vacaville	Y		Y	
450	Vallejo	Y		Y	
451	Vernon	Y		Y	
452	Victorville	Y		Y	
453	Villa Park	Y		Y	
454	Visalia	Y		Y	
455	Vista	Y		Y	
456	Walnut	Y		Y	
457	Walnut Creek	Y		Y	
458	Wasco	Y		Y	
459	Waterford	Y		Y	
460	Watsonville	Y		Y	
461	Weed	Y		Y	
462	West Covina	Y		Y	
463	West Hollywood	Y		Y	
464	West Los Angeles	Y		Y	
465	West Sacramento	Y		Y	
466	Westlake Village	Y		Y	
467	Westminster	Y		Y	
468	Westmorland	Y		Y	

	Service Location	Converged IP		VoIP Voice Mail	
		Yes	No	Yes	No
469	Wheatland	Y		Y	
470	Whittier	Y		Y	
471	Williams	Y		Y	
472	Willits	Y		Y	
473	Willows	Y		Y	
474	Windsor	Y		Y	
475	Winters	Y		Y	
476	Woodlake	Y		Y	
477	Woodland	Y		Y	
478	Woodside	Y		Y	
479	Yorba Linda	Y		Y	
480	Yountville	Y		Y	
481	Yreka	Y		Y	
482	Yuba City	Y		Y	
483	Yucaipa	Y		Y	
484	Yucca Valley	Y		Y	

Bidder may identify additional locations where their Converged VoIP and VoIP Voice Mail Services are currently commercially available in Table 1.2.3.6.2.b.

If Bidder is unable to identify all service areas within Table 1.2.3.6.2.a, Bidder shall provide additional information in the form of a coverage map that includes unincorporated areas.

Table 1.2.3.6.2.b Additional Bidder's Converged VoIP and VoIP Voice Mail Services Commercially Available Areas

	Service Location	Standalone IP		VoIP Voice Mail	
		Yes	No	Yes	No
1	None				

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1.2.4 Audio Conferencing

The Contractor shall provide Audio Conferencing which shall consist of a multiple port, reserved and reservationless, conferencing bridge.

Basic Audio Conferencing shall include the following:

1. International Access - Callers have the ability to participate in a conference from an international location;
2. Host Controlled Question and Answer Service - The host of a conference can control a question and answer session on a conference call; and,
3. Voting and Polling Service - The capability for participants to vote via touchtone keys and for the host to poll votes.

All Audio Conferencing services shall be available and functional to all subscribers.

Contractor shall support Toll-Free Dial-in and Caller Paid Dial-in conferencing services.

Audio Conferencing services shall support users who are connected via IP and the Public Switched Telephone Network (PSTN).

Contractor shall provide gateway services to support calls through the PSTN.

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

1.2.4.1 Audio Conferencing Features

Contractor shall offer the Audio Conferencing features detailed in Table 1.2.4.1.a.

Table 1.2.4.1.a Audio Conferencing Service and Features

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Caller Paid Dial-in Reservation-less Service	Also known as "Meet-Me" service, participants dial a pre-established number and access code to join the conference call.	Y		CONF
	Bidder's Product Description: Caller Paid Dial-in Reservation-less Service.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
2	Toll-Free Dial-in Reservation-less Service	Also known as "Meet-Me" service, participants dial a pre-established toll-free number and access code to join the conference call.	Y		CONTF
	Bidder's Product Description: Toll-Free Dial-in Reservation-less Service.				
3	Caller Paid Dial-in Reserved Service	Host reserves a conference session in advance and receives a temporary dial-in number and access code. Participants dial the number and enter the access code to join the call.	Y		TFCPRV
	Bidder's Product Description: Caller Paid Dial-in Reserved Service.				
4	Toll-Free Dial-in Reserved Service	Host reserves a conference session in advance and receives a temporary toll-free dial-in number and access code. Participants dial the toll-free number and enter the access code to join the call.	Y		TFDIRV
	Bidder's Product Description: Toll-Free Dial-in Reserved Service.				
5	Operator-Dialed Service	An operator sets up the conference call by placing calls to each of the participants.	Y		COPD
	Bidder's Product Description: Operator-Dialed Service.				
6	Operator-Assisted Dial-in Service	Participants dial in to the conference number and the operator screens the callers for information such as password, name or location.	Y		COPADI
	Bidder's Product Description: Operator-Assisted Dial-in Service.				
7	Recording Service	The capability to record to various media including CD, audiocassette or the Digitized Replay option below.	Y		CONREC
	Bidder's Product Description: Recording Service.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
8	Digitized Replay	A user can listen to a conference call at their convenience by dialing an access number/code. During replay the caller can control the session utilizing telephone keypad entries.	Y		CDIGCP
	Bidder's Product Description: Digitized Replay.				
9	Transcription	Contractor provided transcribing a conference call	Y		CONTRAN
	Bidder's Product Description: Transcription Service				
10	Language Interpretation / Translation	Real-time interpretation and translation services	Y		CONLANG
	Bidder's Product Description: Language Interpretation/ Translation.				
11	Security List Screening	Host specifies a list of participants who may dial into the conference call. Conference Attendant screens callers against the list.	Y		CONSEC
	Bidder's Product Description: Security List Screening.				
12	Participant List	Conference Attendant captures up to three (3) caller attributes and distributes a list of conference participants to the host immediately following the call.	Y		CONLST
	Bidder's Product Description: Participant List.				

The Contractor may offer additional unsolicited Audio Conferencing features in Table 1.2.4.1.b.

Table 1.2.4.1.b Unsolicited Audio Conferencing Features

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		
	Bidder's Product Description:		

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1.2.5 Session Initiated Protocol (SIP) Trunking

The Contractor shall provide a network based trunk service using Session Initiated Protocol (SIP) that includes the functionality described below. The SIP trunk service shall allow a Customer to utilize a connection to the contractors MPLS network provided under this section to access the Public Switched Telephone Network from an end-user device such as an IP PBX, Call Manager or Unified Communications and Collaboration device.

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

1.2.5.1 SIP Supporting Calls

Contractor shall provide access to the PSTN via SIP trunking that supports local, long distance and inbound toll-free calling.

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

1.2.5.2 Concurrent SIP Calls

The Contractor shall engineer the SIP trunk service to support the number of concurrent calls requested by the End-User. The SIP trunk service shall support G.711 and G.729a voice compression.

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

1.2.5.3 On-Net SIP Calling

The Contractor shall provide SIP Trunk service that provides unlimited on-net calling. On-net calling is defined as calling from a SIP Trunk site that uses the contractors MPLS network and terminates at a SIP Trunk site or a Converged VoIP site. The Converged VoIP service is that offered by the contractor under this section. If the contractor offers Standalone VoIP under another CALNET contract, a SIP Trunk call terminating at such a site shall be considered on-net. Off-net calling is any call that is not on-net. Off-net calling consists of local, long distance (United States) and international.

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

1.2.5.4 On-Net Enterprise Calling

The Contractor shall treat the State of California as a single enterprise for the purpose of on-net calling. On-net calling from one (1) State of California Agency/Department to another shall be treated the same as on-net calling within a State of California Agency or Department.

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

1.2.5.5 Interoperability of SIP Trunk with Other CALNET 3 Technologies

The Contractor's SIP Trunk services shall be interoperable with the Contractor's Converged VoIP services (Section 1.2.3.2) and the State shall not incur any charges to call between these two (2) services.

In the event at Contractor is awarded a CALNET 3 Contract for Standalone VoIP services (Subcategory 1.3), this IP Trunking service shall be interoperable with the Contractor's Standalone VoIP services and the State shall not incur any charges to call between these two (2) services.

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

1.2.5.6 SIP Calling Features

The SIP trunk service shall support the following calling features:

1. Direct Inward Dialing (DID);
2. Direct Outward Dialing (DOD);
3. Local Number Portability;
4. 4-1-1 Directory Assistance;
5. 7-1-1 Telecommunications Relay Service;
6. 9-1-1 and E9-1-1 Emergency Calling;
7. Operator Services; and,
8. ITU T.38 Standard for transmission over IP networks between Group 3 fax terminals.

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

1.2.5.7 SIP Trunking Geographic Availability

The Contractor shall provide SIP Trunking at all locations where Contractor is required to provide MPLS service.

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

1.2.5.8 SIP Calling Plans

The Contractor shall provide the SIP calling plans identified in Table 1.2.5.8.a

Table 1.2.5.8.a, SIP Calling Plans

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	SIP Calling Plan A	Unlimited Local Calling (inbound/outbound) with unlimited off-net long distance calling (United States). The plan shall include a rate for off-net international and shall not include any other rates. There shall be no charges for on-net calling.	Y		FLXCPC
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan C.				
2	SIP Calling Plan B	Unlimited local calling with off-net long distance (Unites State) usage. The plan shall include a rate for off-net long distance (United State) and a rate for off-net international and shall not include any other rates. There shall be no charges for on-net calling.	Y		FLXCPB
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan B.				
3	U.S. Off-Net Calling for Calling Plan B	Domestic Off-Net calling for Calling Plan B Customers	Y		IPONDOM
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan B US Off-Net Usage.				
4	SIP Calling Plan C	Unlimited off-net long distance calling (United States) with no local calling. There shall be no rates associated with this plan. There shall be no charges for on-net calling.	Y		FLXCPA
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan A US Off-Net Usage.				
5	SIP Calling Plan D	United States Inbound toll-free calling. The plan shall contain a rate for United States inbound toll-free calling and shall not include any other rates.	Y		CLPLNG
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan G.				
6	Inbound Toll-Free Calling for Calling Plan D	Inbound Toll-Free calling for SIP Calling Plan D Customers.	Y		VIEEUS,VIRRUS

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
	Bidder's Product Description: AT&T IP Flex Reach Calling Plan D Inbound Toll Free Usage.			

The Contractor may offer additional unsolicited SIP Calling Plans in Table 1.2.5.8.b.

Table 1.2.5.8.b Unsolicited SIP Trunking Features

	Feature Name	Feature Description	Bidder's Product Identifier
1	AT&T IP Flexible Reach Enhanced Features Package	AT&T IP Flexible Reach Enhanced Features Package	IPTFEF
	Bidder's Product Description: AT&T IP Flexible Reach Enhanced Features Package-includes: Telephone Number User features • Anonymous Call Rejection • Call Transfer • Call Forwarding • Sequential Ringing • Simultaneous Ringing • Selective Call Acceptance • Selective Call Rejection • Max DID Policing Trunk Call Routing Features • Percent Allocation • Linear • Round Robin • Most Idle Customer Portal		
2	IP Toll Free - Redirect w Forwarding up to 5,000	IP Toll Free - IP Redirect with Data Forwarding 0 - 5,000. Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location.	IPTFRD1

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: IP Toll Free - IP Redirect with Data Forwarding 0 - 5,000. Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location. The data is forwarded along with the transferred call and includes data generated by Customer at the Redirecting Party location. Customer must subscribe to IP InfoPack in order to enable forwarding of any of the data fields under that feature.		
3	IP Toll Free - Redirect w Forwarding 5,001-10,000	IP Toll Free - IP Redirect with Data Forwarding 5,001 - 10,000. Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location.	IPTFRD2
	Bidder's Product Description: IP Toll Free - IP Redirect with Data Forwarding 5,001 - 10,000. Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location. The data is forwarded along with the transferred call and includes data generated by Customer at the Redirecting Party location. Customer must subscribe to IP InfoPack in order to enable forwarding of any of the data fields under that feature.		
4	IP Toll Free - Redirect w Forwarding over 10,001	IP Toll Free - IP Redirect with Data Forwarding 10,001+ Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location.	IPTFRD3
	Bidder's Product Description: IP Toll Free - IP Redirect with Data Forwarding 10,001+ Enables forwarding of Dialed Number, CPN and selected IP InfoPack data from the Redirecting Party location to the Target Party location. The data is forwarded along with the transferred call and includes data generated by Customer at the Redirecting Party location. Customer must subscribe to IP InfoPack in order to enable forwarding of any of the data fields under that feature.		
5	IP Toll Free - Redirect w/out Forwarding up to 5,000	IP Toll Free - IP Redirect without Data Forwarding 0 - 5,000. Enables pre-answer transfer of a call to a Target Party.	IPTF1
	Bidder's Product Description: IP Toll Free - IP Redirect without Data Forwarding 0 - 5,000. Enables pre-answer transfer of a call to a Target Party.		
6	IP Toll Free - Redirect w/out Forwarding 5,001 - 10,000	IP Toll Free - IP Redirect without Data Forwarding 5,001 - 10,000. Enables pre-answer transfer of a call to a Target Party.	IPTF2

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: IP Toll Free - IP Redirect without Data Forwarding 5,001 - 10,000. Enables pre-answer transfer of a call to a Target Party.		
7	IP Toll Free - Redirect w/out Forwarding over 10,001	IP Toll Free - IP Redirect / Redirect without Data Forwarding 10,001+. Enables pre-answer transfer of a call to a Target Party.	IPTF3
	Bidder's Product Description: IP Toll Free - IP Redirect / Redirect without Data Forwarding 10,001+. Enables pre-answer transfer of a call to a Target Party.		
8	IP Toll Free - Redirect Setup	IP Toll Free - IP Redirect Set Up	IPTFRS
	Bidder's Product Description: IP Toll Free - IP Redirect Set Up		
9	IP Toll Free - InfoPack	IP Toll Free - IP InfoPack without Mobile Caller Information Delivery. Display of call information to the party receiving the call, including any or all of the following fields: - Billing Number (BN); - Calling Party Number (CPN); - Originating Line Information (OLI); - User to User Information (UUI); - Original Called Number (OCN); - Redirecting Number (RN); and, - Redirecting Information (RI).	IPTFI

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: IP Toll Free - IP InfoPack without Mobile Caller Information Delivery. Display of call information to the party receiving the call, including any or all of the following fields: - Billing Number (BN); - Calling Party Number (CPN); - Originating Line Information (OLI); - User to User Information (UUI); - Original Called Number (OCN); - Redirecting Number (RN); and, - Redirecting Information (RI) CPE must be certified with Narrowband Signaling Syntax (NSS) to order and use: Original Called Number, Redirecting Number, & Redirecting Information. IP InfoPack may be ordered as a standalone feature on any AT&T IPTF termination, and does not require IP Courtesy Transfer or IP Redirect. Delivery of the data fields above is dependent upon (a) the termination being subscribed to the specific field, (b) the information being present on the incoming call record and (c) the ability of the CPE to support it. This information may not be available on calls originating from a location outside the US.		
10	IP Toll Free - InfoPack Setup	IP Toll Free - IP InfoPack Set up	IPTFIS
	Bidder's Product Description: IP Toll Free - IP InfoPack Set up Fee		
11	IP Toll Free - Site Setup	IP Toll Free - Site Setup	IPTFS
	Bidder's Product Description: IP Toll Free - Site Setup		
12	IP Toll Free - Courtesy Transfer	IP Toll Free - IP Courtesy Transfer. Post-answer, blind transfer capability that enables Customer to transfer the caller to the Target Party.	IPTFT
	Bidder's Product Description: IP Toll Free - IP Courtesy Transfer. Post-answer, blind transfer capability that enables Customer to transfer the caller to the Target Party. Important: This feature should not be provisioned on the same terminations that also have traditional Transfer Connect. (Transfer Connect is a traditional Toll-Free Advanced Feature).		
13	IP Toll Free - Courtesy Transfer Non-8YY	IP Toll Free - IP Courtesy Transfer to Non-8YY Off-Net	IPTFTO

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: IP Toll Free - IP Courtesy Transfer to Non-8YY Off-Net		

1.2.5.9 SIP Trunk International Off-Net Calling

The Contractor shall provide SIP Trunk international off-net calling to the countries listed in Table 1.2.5.9. Bidder's rates as provided in the Subcategory Cost Worksheets shall be based on time of day ("Peak Time" or "Off–Peak Time"). Peak Time is between 8:00 a.m. and 4:59 p.m., Monday through Friday based on the time at the CALNET caller's location. Off-Peak time is for all calls where Peak Time rates do not apply.

Note: If the Bidder charges the same rate for both Peak Time and Off-Peak time, Bidder may use the same Product Identifier for both products.

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

1.2.5.9.1 International Mobile Termination Charges (IMTC)

Contractor shall provide the ability to terminate international calls on wireless devices. Contractor shall charge International Mobile Termination Charge (IMTC) as an additional per minute rate that is applied to international calls (direct dial business or credit card calls) originating in the U.S. and terminating in certain countries to either wireless communications devices including mobile telephones, pagers, personal computers, and personal digital assistants, or to a portable telephone number where a forwarding, tracking or other type of location service is used.

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

1.2.5.9.2 U.S. Based Services Waiver

The provisions detailed in IFB Business Requirements Section A.2.4.4 (U.S. Based Services) will not apply to Contractor's International Long Distance Calling services.

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

The Contractor shall offer the SIP Trunk Off-Net International Long Distance Calling configurations detailed in Table 1.2.5.9.a.

Table 1.2.5.9.a SIP Trunking Off-Net International Long Distance Calling

	Country	Bidders Meets or Exceeds? Y N		Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
1	Brazil:	Y		IPINBZ	IPINBZ	IPIMBZ
2	Canada:	Y		IPINCAN	IPINCAN	IPIMCAN
3	China:	Y		IPINCH	IPINCH	IPIMCH
4	France:	Y		IPINFR	IPINFR	IPIMFR
5	Germany:	Y		IPINGER	IPINGER	IPIMGER
6	Israel:	Y		IPINIS	IPINIS	IPIMIS
7	Italy:	Y		IPINIT	IPINIT	IPIMIT
8	Japan:	Y		IPINJP	IPINJP	IPIMJP
9	Korea:	Y		IPINSK	IPINSK	IPIMSK
10	Mexico:	Y		IPINMX	IPINMX	IPIMMX
11	Spain:	Y		IPINSP	IPINSP	IPIMSP
12	Switzerland:	Y		IPINSW	IPINSW	IPIMSW
13	United Kingdom:	Y		IPINUK	IPINUK	IPIMUK

Bidders may offer the SIP Trunk International Off-Net Calling to unsolicited countries listed in Table 1.2.5.9.b.

Table 1.2.5.9.b Unsolicited SIP Trunk International Off-Net Calling

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
1	Afghanistan	IPINAFG	IPINAFG	IPINAFG
2	Albania	IPINALB	IPINALB	IPINALB
3	Algeria	IPINALG	IPINALG	IPINALG
4	American Samoa	IPINAMS	IPINAMS	IPINAMS
5	Andorra	IPINAND	IPINAND	IPINAND
6	Angola	IPINAGL	IPINAGL	IPINAGL
7	Anguilla	IPINAGU	IPINAGU	IPINAGU
8	Antarctica (Casey)	IPINANC	IPINANC	IPINANC
9	Antarctica (Scott)	IPINANS	IPINANS	IPINANS

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
10	Antigua and Barbuda	IPINANT	IPINANT	IPINANT
11	Argentina	IPINARG	IPINARG	IPINARG
12	Armenia	IPINARM	IPINARM	IPINARM
13	Aruba	IPINARU	IPINARU	IPINARU
14	Ascension Island	IPINASC	IPINASC	IPINASC
15	Australia	IPINAST	IPINAST	IPINAST
16	Austria	IPINAUS	IPINAUS	IPINAUS
17	Azerbaijan	IPINAZE	IPINAZE	IPINAZE
18	Bahamas	IPINBAH	IPINBAH	IPINBAH
19	Bahrain	IPINBHR	IPINBHR	IPINBHR
20	Bangladesh	IPINBAN	IPINBAN	IPINBAN
21	Barbados	IPINBAR	IPINBAR	IPINBAR
22	Belarus	IPINBLR	IPINBLR	IPINBLR
23	Belgium	IPINBLG	IPINBLG	IPINBLG
24	Belize	IPINBLZ	IPINBLZ	IPINBLZ
25	Benin	IPINBEN	IPINBEN	IPINBEN
26	Bermuda	IPINBER	IPINBER	IPINBER
27	Bhutan	IPINBHU	IPINBHU	IPINBHU
28	Bosnia and Herzegovina	IPINBOL	IPINBOL	IPINBOL
29	Botswana	IPINBOS	IPINBOS	IPINBOS
30	British Virgin Islands	IPINBVI	IPINBVI	IPINBVI
31	Brunei	IPINBRU	IPINBRU	IPINBRU
32	Bulgaria	IPINBUL	IPINBUL	IPINBUL
33	Burkina Faso	IPINBKF	IPINBKF	IPINBKF
34	Burundi	IPINBUR	IPINBUR	IPINBUR
35	Cambodia	IPINCAM	IPINCAM	IPINCAM
36	Cameroon	IPINCMR	IPINCMR	IPINCMR

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
37	Cape Verde	IPINCAP	IPINCAP	IPINCAP
38	Cayman Islands	IPINCAY	IPINCAY	IPINCAY
39	Central African Republic	IPINCEN	IPINCEN	IPINCEN
40	Chad	IPINCHA	IPINCHA	IPINCHA
41	Chile	IPINCHI	IPINCHI	IPINCHI
42	Christmas Island	IPINCHR	IPINCHR	IPINCHR
43	Cocos Island	IPINCOC	IPINCOC	IPINCOC
44	Colombia	IPINCOL	IPINCOL	IPINCOL
45	Comoros	IPINCOM	IPINCOM	IPINCOM
46	Congo Republic	IPINCOZ	IPINCOZ	IPINCOZ
47	Congo (Zaire), Democratic Rep.	IPINCON	IPINCON	IPINCON
48	Cook Islands	IPINCOO	IPINCOO	IPINCOO
49	Costa Rica	IPINCOS	IPINCOS	IPINCOS
50	Croatia	IPINCRO	IPINCRO	IPINCRO
51	Cuba	IPINCUB	IPINCUB	IPINCUB
52	Cyprus	IPINCYP	IPINCYP	IPINCYP
53	Czech Republic	IPINCZE	IPINCZE	IPINCZE
54	Denmark	IPINDEN	IPINDEN	IPINDEN
55	Diego Garcia	IPINDIE	IPINDIE	IPINDIE
56	Djibouti	IPINDJI	IPINDJI	IPINDJI
57	Dominica	IPINDMC	IPINDMC	IPINDMC
58	Dominican Republic	IPINDMR	IPINDMR	IPINDMR
59	East Timor	IPINEAS	IPINEAS	IPINEAS
60	Ecuador	IPINECU	IPINECU	IPINECU
61	Egypt	IPINEGY	IPINEGY	IPINEGY
62	El Salvador	IPINELS	IPINELS	IPINELS
63	Equatorial Guinea	IPINEQU	IPINEQU	IPINEQU

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
64	Eritrea	IPINERI	IPINERI	IPINERI
65	Estonia	IPINEST	IPINEST	IPINEST
66	Ethiopia	IPINETH	IPINETH	IPINETH
67	Falkland Islands	IPINFAE	IPINFAE	IPINFAE
68	Faroe Islands	IPINFAL	IPINFAL	IPINFAL
69	Federated States of Micronesia	IPINMIC	IPINMIC	IPINMIC
70	Fiji	IPINFIJ	IPINFIJ	IPINFIJ
71	Finland	IPINFIN	IPINFIN	IPINFIN
72	French Antilles	IPINFRE	IPINFRE	IPINFRE
73	French Guiana	IPINFRG	IPINFRG	IPINFRG
74	French Polynesia	IPINFP	IPINFP	IPINFP
75	Gabon	IPINGAB	IPINGAB	IPINGAB
76	Gambia	IPINGAM	IPINGAM	IPINGAM
77	Georgia	IPINGEO	IPINGEO	IPINGEO
78	Ghana	IPINGHA	IPINGHA	IPINGHA
79	Gibraltar	IPINGIB	IPINGIB	IPINGIB
80	Greece	IPINGRE	IPINGRE	IPINGRE
81	Greenland	IPINGRL	IPINGRL	IPINGRL
82	Grenada	IPINGND	IPINGND	IPINGND
83	Guadeloupe	IPINGDL	IPINGDL	IPINGDL
84	Guantanamo	IPINGNT	IPINGNT	IPINGNT
85	Guatemala	IPINGTM	IPINGTM	IPINGTM
86	Guinea	IPINGPR	IPINGPR	IPINGPR
87	Guinea-Bissau	IPINGNB	IPINGNB	IPINGNB
88	Guyana	IPINGUY	IPINGUY	IPINGUY
89	Haiti	IPINHAI	IPINHAI	IPINHAI
90	Honduras	IPINHND	IPINHND	IPINHND
91	Hong Kong	IPINHKG	IPINHKG	IPINHKG

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
92	Hungary	IPINHUN	IPINHUN	IPINHUN
93	Iceland	IPINICE	IPINICE	IPINICE
94	India	IPININ	IPININ	IPININ
95	Indonesia	IPINIDN	IPINIDN	IPINIDN
96	Iran	IPINIRN	IPINIRN	IPINIRN
97	Iraq	IPINIRQ	IPINIRQ	IPINIRQ
98	Ireland	IPINIRE	IPINIRE	IPINIRE
99	Ivory Coast	IPINIVO	IPINIVO	IPINIVO
100	Jamaica	IPINJAM	IPINJAM	IPINJAM
101	Jordan	IPINJOR	IPINJOR	IPINJOR
102	Kazakhstan	IPINKAZ	IPINKAZ	IPINKAZ
103	Kenya	IPINKEN	IPINKEN	IPINKEN
104	Kiribati	IPINKIR	IPINKIR	IPINKIR
105	Korea, Democratic Peoples Rep.	IPINKRN	IPINKRN	IPINKRN
106	Kuwait	IPINKUW	IPINKUW	IPINKUW
107	Kyrgyzstan	IPINKYR	IPINKYR	IPINKYR
108	Laos	IPINLAO	IPINLAO	IPINLAO
109	Latvia	IPINLAT	IPINLAT	IPINLAT
110	Lebanon	IPINLEB	IPINLEB	IPINLEB
111	Lesotho	IPINLES	IPINLES	IPINLES
112	Liberia	IPINLBR	IPINLBR	IPINLBR
113	Libya	IPINLBY	IPINLBY	IPINLBY
114	Liechtenstein	IPINLIE	IPINLIE	IPINLIE
115	Lithuania	IPINLIT	IPINLIT	IPINLIT
116	Luxembourg	IPINLUX	IPINLUX	IPINLUX
117	Macao	IPINMAC	IPINMAC	IPINMAC
118	Macedonia	IPINMCD	IPINMCD	IPINMCD
119	Madagascar	IPINMAD	IPINMAD	IPINMAD

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
120	Malawi	IPINMLW	IPINMLW	IPINMLW
121	Malaysia	IPINMLY	IPINMLY	IPINMLY
122	Maldives	IPINMLD	IPINMLD	IPINMLD
123	Mali	IPINMAL	IPINMAL	IPINMAL
124	Malta	IPINMLT	IPINMLT	IPINMLT
125	Marshall Islands	IPINMAR	IPINMAR	IPINMAR
126	Mauritania	IPINMRT	IPINMRT	IPINMRT
127	Mauritius	IPINMAU	IPINMAU	IPINMAU
128	Mayotte	IPINMAY	IPINMAY	IPINMAY
129	Moldova	IPINMOL	IPINMOL	IPINMOL
130	Monaco	IPINMNC	IPINMNC	IPINMNC
131	Mongolia	IPINMGP	IPINMGP	IPINMGP
132	Montenegro	IPINMON	IPINMON	IPINMON
133	Montserrat	IPINMST	IPINMST	IPINMST
134	Morocco	IPINMOR	IPINMOR	IPINMOR
135	Mozambique	IPINMOZ	IPINMOZ	IPINMOZ
136	Myanmar	IPINMYA	IPINMYA	IPINMYA
137	Namibia	IPINNAM	IPINNAM	IPINNAM
138	Nauru	IPINNAU	IPINNAU	IPINNAU
139	Nepal	IPINNEP	IPINNEP	IPINNEP
140	Netherlands	IPINNTA	IPINNTA	IPINNTA
141	Netherlands Antilles	IPINNET	IPINNET	IPINNET
142	Nevis	IPINNEV	IPINNEV	IPINNEV
143	New Caledonia	IPINNCD	IPINNCD	IPINNCD
144	New Zealand	IPINNZD	IPINNZD	IPINNZD
145	Nicaragua	IPINNIC	IPINNIC	IPINNIC
146	Niger	IPINNGR	IPINNGR	IPINNGR
147	Nigeria	IPINNIG	IPINNIG	IPINNIG

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
148	Niue	IPINNIU	IPINNIU	IPINNIU
149	Norfolk Island	IPINNFK	IPINNFK	IPINNFK
150	Norway	IPINNOR	IPINNOR	IPINNOR
151	Oman	IPINOMA	IPINOMA	IPINOMA
152	Pakistan	IPINPAK	IPINPAK	IPINPAK
153	Palau	IPINPAL	IPINPAL	IPINPAL
154	Panama	IPINPAN	IPINPAN	IPINPAN
155	Papua New Guinea	IPINPAP	IPINPAP	IPINPAP
156	Paraguay	IPINPAR	IPINPAR	IPINPAR
157	Peru	IPINPER	IPINPER	IPINPER
158	Philippines	IPINPHI	IPINPHI	IPINPHI
159	Poland	IPINPOL	IPINPOL	IPINPOL
160	Portugal	IPINPOR	IPINPOR	IPINPOR
161	Qatar	IPINQAT	IPINQAT	IPINQAT
162	Reunion	IPINREU	IPINREU	IPINREU
163	Romania	IPINROM	IPINROM	IPINROM
164	Russia	IPINRUS	IPINRUS	IPINRUS
165	Rwanda	IPINRWA	IPINRWA	IPINRWA
166	Saint Helena	IPINSTH	IPINSTH	IPINSTH
167	Saint Kitts	IPINSTK	IPINSTK	IPINSTK
168	Saint Lucia	IPINSTL	IPINSTL	IPINSTL
169	Saint Pierre and Miquelon	IPINSTP	IPINSTP	IPINSTP
170	Saint Vincent and The Grenadines	IPINSTV	IPINSTV	IPINSTV
171	San Marino	IPINSAN	IPINSAN	IPINSAN
172	Sao Tome and Principe	IPINSAO	IPINSAO	IPINSAO
173	Saudi Arabia	IPINSAU	IPINSAU	IPINSAU
174	Senegal	IPINSEN	IPINSEN	IPINSEN

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
175	Serbia	IPINSBA	IPINSBA	IPINSBA
176	Seychelles	IPINSEY	IPINSEY	IPINSEY
177	Sierra Leone	IPINSIE	IPINSIE	IPINSIE
178	Singapore	IPINSIN	IPINSIN	IPINSIN
179	Slovakia	IPINSVK	IPINSVK	IPINSVK
180	Slovenia	IPINSVN	IPINSVN	IPINSVN
181	Solomon Islands	IPINSOL	IPINSOL	IPINSOL
182	Somalia	IPINSOM	IPINSOM	IPINSOM
183	South Africa	IPINSOU	IPINSOU	IPINSOU
184	Sri Lanka	IPINSRI	IPINSRI	IPINSRI
185	Sudan	IPINSUD	IPINSUD	IPINSUD
186	Suriname	IPINSUR	IPINSUR	IPINSUR
187	Swaziland	IPINSWA	IPINSWA	IPINSWA
188	Sweden	IPINSWE	IPINSWE	IPINSWE
189	Syria	IPINSYR	IPINSYR	IPINSYR
190	Taiwan	IPINTAI	IPINTAI	IPINTAI
191	Tajikistan	IPINTAJ	IPINTAJ	IPINTAJ
192	Tanzania	IPINTAN	IPINTAN	IPINTAN
193	Thailand	IPINTHA	IPINTHA	IPINTHA
194	Togo	IPINTOG	IPINTOG	IPINTOG
195	Tonga	IPINTON	IPINTON	IPINTON
196	Trinidad and Tobago	IPINTRI	IPINTRI	IPINTRI
197	Tunisia	IPINTUN	IPINTUN	IPINTUN
198	Turkey	IPINTRK	IPINTRK	IPINTRK
199	Turkmenistan	IPINTKM	IPINTKM	IPINTKM
200	Turks and Caicos Islands	IPINTKC	IPINTKC	IPINTKC
201	Tuvalu	IPINTUV	IPINTUV	IPINTUV
202	Uganda	IPINUGA	IPINUGA	IPINUGA

	Country	Peak Time Product Identifier	Off-Peak Product Identifier	IMTC Product Identifier
203	Ukraine	IPINUKR	IPINUKR	IPINUKR
204	United Arab Emirates	IPINUAE	IPINUAE	IPINUAE
205	Uruguay	IPINURU	IPINURU	IPINURU
206	Uzbekistan	IPINUZB	IPINUZB	IPINUZB
207	Vanuatu	IPINVAN	IPINVAN	IPINVAN
208	Vatican City	IPINVAT	IPINVAT	IPINVAT
209	Venezuela	IPINVEN	IPINVEN	IPINVEN
210	Vietnam	IPINVIE	IPINVIE	IPINVIE
211	Wallis and Fortuna Islands	IPINWAL	IPINWAL	IPINWAL
212	Western Samoa	IPINWSM	IPINWSM	IPINWSM
213	Yemen	IPINYEM	IPINYEM	IPINYEM
214	Zambia	IPINZAM	IPINZAM	IPINZAM
215	Zimbabwe	IPINZIM	IPINZIM	IPINZIM

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1.2.6 Service Restoration

1.2.6.1 Telecommunications Service Priority (TSP) Program

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

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

1.2.6.2 Network Disaster/Operational Recovery

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

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

The Contractor shall implement processes that will assure the continuity of services for critical operations, producing the greatest benefit from remaining limited resources and achieving a systematic and orderly resumption of all contracted services.

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

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1.2.7 Data Network Monitoring Application (DNMA)

The Contractor shall provide a web based Data Network Monitoring Application (DNMA) to provide near real-time and historical network performance and fault detection information to Customers. The DNMA shall identify the availability and performance of contracted MPLS services. Only CALNET 3 services will appear in the DNMA. The Contractor's DNMA shall provide the following features:

1. Dynamic GUI views that show the relationship between devices providing data network services;
2. Alarm indicators for adversely effected network components;
3. Immediate real-time network availability, throughput, congestion, utilization, and error statistics through inquiry responses;
4. Historical network availability, throughput, congestion, error statistics shall be available for a rolling six (6) month period;
5. Notification or indicators when components are in an administrative/ maintenance status;
6. Real-time event log showing network activity;
7. Views shall be partitioned by Customer and Customers will have access only to their department's network components and information. The level of access shall be determined by the Customer department management or Customer administrators;
8. The Contractor shall provide CALNET 3 CMO with an authorization level that provides access to all CALNET Customer network components and information. The Contractor shall provide single sign-on access to view any Customer network;
9. This tool shall provide the capability to run customized reports for the six (6) months of stored data;
10. The statistical information shall be in a data extractable format; and,
11. Contractor shall provide standard and customized reports as determined by CALNET 3 CMO.

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

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1.2.8 Other Services

1.2.8.1 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.

1.2.8.2 Extended Demarcation Wiring Services

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

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

Extended Demarc wiring is limited to the following:

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

The Contractor shall provide installations in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs detailed in Section 1.2.9.8.11 (Provisioning SLAs) associated with that service.

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

1. The wire/cable pathway is blocked and cannot be cleared in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;

2. The wire/cable pathway is in an asbestos environment or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by CALNET 3 CMO.

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

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

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

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

The Contractor shall offer the wiring services for extended demarcation detailed in Table 1.2.8.2.a.

Table 1.2.8.2.a Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Extended Demarcation – Copper four-Pair - Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes up to 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		EDCR
	Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48 or equivalent jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during normal business hours.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
2	Extended Demarcation – Copper four-Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes up to 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		EDCO
	Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48 or equivalent jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during overtime hours.				
3	Extended Demarcation – Copper four-Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes up to 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		EDCH
	Bidder's Product Description: The copper demarcation point extension is up to 300 feet. Extended termination wiring will include the necessary four-pair cable and an RJ48 or equivalent jack. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during Sunday and Holiday hours.				
4	Extended Demarcation – Copper 25 Pair - Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes up to 300 feet or less of one (1) Category 5e 25-pair CMP patch panels and mounting hardware. Ten Category 5e, three (3) meter jumpers; one (1) 24-port panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Y		EDC25R
	Bidder's Product Description: The copper demarcation point extension is limited to 300 feet or less of one Category 5e 25-pair CMP UTP cable with new 24-port Category 5e panels. Ten (10) Category 5e, three- (3) meter jumpers, one (1) 24-port panel to be provided in the MPOE and IDF for all circuits being extended. Associated troubleshooting, testing, and labeling are included. To provide this service, AT&T assumes customer has adequate pathways. The labor rate is for work performed during normal business hours...				

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

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

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

The Contractor may offer additional unsolicited Extended Demarcation Wiring Services in Table 1.2.8.2.b.

Table 1.2.8.2.b Unsolicited Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder's Product Identifier
1	None		
	Bidder's Product Description:		

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1.2.8.3 Services Related Hourly Support

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractor's responsibilities. Work performed under this Section 1.2.8.3 is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

In Subcategory Cost Worksheet 1.2.8.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten (10) hours per dispatch/occurrence.

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

The Contractor shall offer Services Related Hourly Support as detailed in Table 1.2.8.3.

Table 1.2.8.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
1	Field Svc Repair Technician - Regular Hrs	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVV
	Bidder's Product Description: Field Service Technician – Regular Hours				
2	Field Svc Repair Technician - Overtime Hrs	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVVO
	Bidder's Product Description: Field Service Technician – Overtime Hours				

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y	N	Bidder's Product Identifier
3	Field Svc Repair Technician - Sunday and Holiday Hrs	Field Technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		MVVH
	Bidder's Product Description: Field Service Technician – Sunday and Holiday Hours				

1.2.8.3 Intentionally Deleted

1.2.8.4 Services Related Infrastructure

This Services Related Infrastructure (SRI) is in support of all CALNET categories provided by AT&T pursuant to this Contract. The customer is offered at the aggregated price for labor and material per unit description. Material and labor are not available separately. Customer must follow the CALNET User Instructions which define specific thresholds for SRI orders.

See Geographic Availability table in Catalog A, table 1.2.8.4.a, b, c.

Services Related Infrastructure is limited to the following:

1. The hourly classifications of hours worked for services described in this response/section will be as follows:
   a. Regular Hours – Hours worked between 8:00am and 4:59pm, Monday through Friday;
   b. Overtime Hours – Hours worked between 5:00pm and 7:59am, Monday through Friday and all day Saturday;
   c. Sunday and Holiday Hours – Any hours worked on Sunday or State of California holidays.
2. All material pricing excludes sales tax; material sales tax shall be applied at time of providing customers a quote and aligned to applicable site project addresses;
3. All pricing is based upon California Prevailing Wages, prevailing wage craft, Telecommunications Technician, with exception of conduit, electrical and grounding work. Conduit, electrical and grounding work is based on prevailing wage craft Inside Wireman;
4. Alterations or deviations, if any, from subsequent proposed scopes of work, or any delays or postponements of the work by the Client or it's agents which result in additional materials or labor costs

will be billed at established unitized pricing. Any extra move on or off the job site due to circumstances beyond AT&T's control will be billed as an extra at hourly labor and equipment rates in effect at the time;

5. Pricing is valid through original contract term;
6. Client is responsible for identifying all areas containing asbestos, lead paint, and /or other hazardous materials. Client is also responsible for any costs associated with the removal and /or abatement of all hazardous materials;
7. Client shall provide a suitable and safe environment for AT&T work at Client's premises. Prior to AT&T's commencement of the work proposed hereunder, Client shall advise AT&T of the presence on Client's premises of any substance or material that is classified as a hazardous material, hazardous chemical, hazardous substance, pollutant, contaminant, or toxic substance under any federal, state, or local law, regulation or ordinance ('Laws") related to the pollution or protection of air, ground or surface water, soil or other environmental media or occupational health and safety ("Hazardous Substance") or safety hazard, within Client's knowledge. AT&T does not handle, remove, or dispose of Hazardous Substances on Client's premises;
8. AT&T shall not transport, store or deposit any Hazardous Substance on any work site or Client property. AT&T shall indemnify and hold harmless the Client for any loss or damage caused by or resulting from the violaiton of this section. In addition, AT&T shall be responsible for any costs associated with the removal and/or abatement of any Hazardous Substances for which AT&T is responsible in violation of this section;
9. AT&T shall immediately notify Client about the presence of any Hazardous Substance at any work-site, and take appropriate steps to ensure the safety of its employees, subcontractors or agents;
10. If, during its performance of services, AT&T's employees, subcontractors, or agents encounter a Hazardous Substance or other environmental or safety hazard, AT&T may suspend its performance until Client, at its own expense, completes the clean up and removal of the Hazardous Substance in accordance with applicable Laws or removes hazards to AT&T's satisfaction. AT&T may terminate the applicable order, without costs to either party, upon (1) Client's failure to take steps towards abating a Hazardous Substance or hazard within thirty (30) days of AT&T's suspension of performance or (2) Client does not or cannot remedy the Hazardous Substance or other environmental or safety hazard within a reasonable time period given all considerations of the particular work being performed;
11. All items excludes X-ray and/or radar of walls and floors.

Table 1.2.8.4.a Services Related Infrastructure Regular Hours

	Feature Name	Feature Description	Bidder's Product Identifier
Telco Room – MDF/IDF/MPOE			

	Feature Name	Feature Description	Bidder's Product Identifier
1	Install Customer Provided UPS	Install customer provided UPS. Based on (1) customer provided 4RU rack mounted UPS, standard electrical connections, no electrical work required.	SRIR001
	Bidder's Product Description: See feature description.		
2	48-Port Switch (Patch Cords)	Cable 48-port switch (patch cords). Based on (48) Allen-Tel, 10' Cat 6 patch cord, AT1610-BU, Per 48 port switch.	SRIR002
	Bidder's Product Description: See feature description.		
3	7' 2-Post Rack	Provide and install 7' 2-post rack. Based on CPI, 7' X 19" - 2 Post Rack, Black, 55053-703 or equivalent.	SRIR003
	Bidder's Product Description: See feature description.		
4	7' 4-Post Rack	Provide and install 7' 4-post rack. Based on CPI, 7' X 19" - 4 Post Rack, Black, 50120-703 or equivalent.	SRIR004
	Bidder's Product Description: See feature description.		
5	Install Customer Provided Rack	Install customer provided rack. Based on (1) customer provided 2 post rack and misc floor mounting hardware.	SRIR005
	Bidder's Product Description: See feature description.		
6	Double Sided Horizontal Wire Manager	Install and provide horizontal wire manager. Based on CPI, Double Sided Horizontal Wire Manager, 30530-719 or equivalent.	SRIR006
	Bidder's Product Description: See feature description.		
7	Double Sided Vertical Wire Manager	Install and provide vertical wire manager. Based on CPI, CCS Vertical Wire Management, 6" W X 7' H Double Sided, Black 30162-703 or equivalent.	SRIR007

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
8	Install Customer Provided Wire Manager	Install customer provided wire manager. Based on (1) customer provided 2RU horizontal wire manager.	SRIR008
	Bidder's Product Description: See feature description.		
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U). Based on CPI, Single Sided Shelf, 3RMU, 40074-700 or equivalent.	SRIR009
	Bidder's Product Description: See feature description.		
10	Install Customer Provided Shelf	Install customer provided shelf. Based on (1) customer provided rack mounted fixed shelf.	SRIR010
	Bidder's Product Description: See feature description.		
11	Hinged Wall Bracket	Provide and install hinged wall bracket. Based on Commscope, Hinged Wall Bracket, 3.5"H X 19"W X 5"D, 1100C1-35-19 or equivalent.	SRIR011
	Bidder's Product Description: See feature description.		
12	Power Strip (4 outlets)	Provide and Install each power strip (4 outlets). Based on TrippLite, Power Strip, 4 outlet, NEMA5-15R, 7OUT SRGE 7FT CRD or equivalent.	SRIR012
	Bidder's Product Description: See feature description.		
13	Ladder Rack and Support Hardware	Provide and install up to 10' of 12" ladder rack and support hardware. Based on CPI, 12" X 10' Cable Runway, Black, 11275-712 and misc hardware or equivalent.; see line items B through G in this section for associated supporting hardware.	SRIR013

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
14	Communication Pole 10 feet	Provide and install Communication pole 10 feet. Based on Wiremold, Comm Pole, 25DTC-410 or equivalent.	SRIR014
	Bidder's Product Description: See feature description.		
15	Fire Rated Un-painted Plywood Backboard	Provide and install 4' x 8' x 3/4" fire rated un-painted plywood backboard. Based on 3/4" X 4' X 8', Sheet Fire Rated Plywood, ACX or equivalent.	SRIR015
	Bidder's Product Description: See feature description.		
16	Wall Angle Support Kit	Provide and install Wall Angle Support Kit, 12", Black. Based on CPI, Wall Angle Support Kit, 12", Black, 11421-712 or equivalent.	SRIR016
	Bidder's Product Description: See feature description.		
17	Rack to Runway Adapter Plate	Provide and install 12" Rack to Runway Adapter Plate, Black. Based on CPI, 12" Rack to Runway Adapter Plate, Black, 10595-712 or equivalent.	SRIR017
	Bidder's Product Description: See feature description.		
18	Runway Support Brackets	Provide and install Runway Support Brackets. Based on CPI, Runway Support Brackets, 11408-001 or equivalent.	SRIR018
	Bidder's Product Description: See feature description.		
19	Slip-on Support Bracket, Cable Runway	Provide and install Slip-on Support Bracket, Cable Runway. Based on CPI, Slip-on Support Bracket, Cable Runway, 10873-001 or equivalent.	SRIR019

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
20	Protective End Caps for Runway, 1 Pair	Provide and install Protective End Caps for Runway, 1 Pair. Based on CPI, Protective End Caps for Runway, 1 Pair, 10642-001 or equivalent.	SRIR020
	Bidder's Product Description: See feature description.		
21	CPE - Flush Mounted Wall Bracket (For Network Gear)	Provide and install CPE - Flush Mounted Wall Bracket (For Network Gear); CPI 11583-719. Based on CPI, Flush Mounted Wall Bracket, 11583-719 or equivalent.	SRIR021
	Bidder's Product Description: See feature description.		
22	Runway Junction-Splice Kit	Provide and install runway Junction-Splice Kit. Based on CPI, Junction-Splice Kit, 16302-701 or equivalent.	SRIR022
	Bidder's Product Description: See feature description.		
23	Runway Butt-Splice Kit	Provide and install runway Butt-Splice Kit. Based on CPI, Butt-Splice Kit, 16301-701 or equivalent.	SRIR023
	Bidder's Product Description: See feature description.		
24	Cube-iT 12U Wall Mount Cabinet	Provide and install Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window). Based on CPI, Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window), 11900-724 or equivalent.	SRIR024
	Bidder's Product Description: See feature description.		
25	Cube-iT 24U Wall Mount Cabinet	Provide and install Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window). Based on CPI, Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window, 11900-748 or equivalent.	SRIR025

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
26	Cube-iT Fan Kit	Provide and install Cube-iT Fan Kit. Based on CPI, Cube-iT Fan Kit, 12804-701 or equivalent.	SRIR026
	Bidder's Product Description: See feature description.		
27	21U Swing Gate Rack	Provide and install 21U Swing Gate Rack - Wall Mount 19in. Based on CPI, 21U Swing Gate Rack - Wall Mount 19in., 11791-725 or equivalent.	SRIR027
	Bidder's Product Description: See feature description.		
28	120V/20A Circuit	Provide and install (1) new 120V/20A circuit equipped with new isolated ground and (2) NEMA 5-20R outlets. Includes up to 75' of 1/2" EMT and circuit breaker. Must have clear pathways, existing electrical panel, vacant slot in existing panel for new circuit breaker and existing main ground buss for the isolated ground.	SRIR028
	Bidder's Product Description: See feature description.		
Backbone Cabling Placing and Consumables - pull line in place (does not include pathway, termination hardware, terminating or testing)			
29	6-strand MM ISP fiber	Provide and install 6-strand MM ISP fiber. Based on Corning, 6 Strand MM (OM3), OFNP, MIC, 006T88-31180-29 or equivalent.	SRIR029
	Bidder's Product Description: See feature description.		
30	6-strand SM ISP fiber	Provide and install 6-strand SM ISP fiber. Based on Corning, 6 Strand SM (OS2), OFNP, MIC, 006E88-31131-29 or equivalent.	SRIR030
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
31	12-strand MM ISP fiber	Provide and install 12-strand MM ISP fiber. Based on Corning, 12 Strand MM (OM3), OFNP, MIC, 012T88-33180-29 or equivalent.	SRIR031
	Bidder's Product Description: See feature description.		
32	12-strand SM ISP fiber	Provide and install 12-strand SM ISP fiber. Based on Corning, 12 Strand SM (OS2), OFNP, MIC, 012E88-33131-29 or equivalent.	SRIR032
	Bidder's Product Description: See feature description.		
33	6-strand MM OSP Underground Fiber Freedm	Provide and install 6-strand MM OSP underground fiber Freedm. Based on Corning, 6 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006TSP-T4180D20 or equivalent.	SRIR033
	Bidder's Product Description: See feature description.		
34	6-strand SM OSP Underground Fiber Freedm	Provide and install 6-strand SM OSP underground fiber Freedm. Based on Corning, 6 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006ESP-T4101D20 or equivalent.	SRIR034
	Bidder's Product Description: See feature description.		
35	12-strand MM OSP Underground Fiber Freedm	Provide and install 12-strand MM OSP underground fiber Freedm. Based on Corning, 12 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012TSP-T4180D20 or equivalent.	SRIR035
	Bidder's Product Description: See feature description.		
36	12-strand SM OSP Underground Fiber Freedm	Provide and install 12-strand SM OSP underground fiber Freedm. Based on Corning, 12 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012ESP-T4101D20 or equivalent.	SRIR036

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
37	24-strand SM OSP Underground Fiber ALTOS	Provide and install 24-strand SM OSP underground fiber ALTOS. Based on Corning, 24 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 024ZU4-T4F22D20 or equivalent.	SRIR037
	Bidder's Product Description: See feature description.		
38	48-strand SM OSP Underground Fiber ALTOS	Provide and install 48-strand SM OSP underground fiber ALTOS. Based on Corning, 48 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 048ZU4-T4F22D20 or equivalent.	SRIR038
	Bidder's Product Description: See feature description.		
39	24-strand SM OSP Underground Fiber Freedm	Provide and install 24-strand SM OSP underground fiber Freedm. Based on Corning, 24 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 024EWP-T4101D20 or equivalent.	SRIR039
	Bidder's Product Description: See feature description.		
40	48-strand SM OSP Underground Fiber Freedm	Provide and install 48-strand SM OSP underground fiber Freedm. Based on Corning, 48 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 048EWP-T4101D20 or equivalent.	SRIR040
	Bidder's Product Description: See feature description.		
41	1" Innerduct Underground in Existing Duct	Provide and install 1" innerduct underground in existing duct. Based on T&B, 1" innerduct, HDPE or equivalent.	SRIR041
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
42	1 1/4" Innerduct Underground in Existing Duct	Provide and install 1 1/4" innerduct underground in existing duct. Based on T&B, 1-1/4" innerduct, HDPE or equivalent.	SRIR042
	Bidder's Product Description: See feature description.		
43	CAT3 25-Pair Copper ISP	Provide and install 25-pair copper ISP. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIR043
	Bidder's Product Description: See feature description.		
44	25-Pair Copper Underground OSP	Provide and install 25-pair copper underground OSP. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIR044
	Bidder's Product Description: See feature description.		
45	CAT3 50-Pair Copper ISP	Provide and install 50-pair copper ISP. Based on Superior Essex, Cat3, 50 pair, CMP or equivalent.	SRIR045
	Bidder's Product Description: See feature description.		
46	50-Pair Copper Underground OSP	Provide and install 50-pair copper underground OSP. Based on Superior Essex, 50 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIR046
	Bidder's Product Description: See feature description.		
47	CAT3 100-Pair Copper ISP	Provide and install 100-pair copper ISP. Based on Superior Essex, Cat3, 100 pair, CMP or equivalent.	SRIR047
	Bidder's Product Description: See feature description.		
48	100-Pair Copper Underground OSP	Provide and install 100-pair copper underground OSP. Based on Superior Essex, 100 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIR048

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
49	Manhole Set Up	Manhole Set up. As required per Cal-OSHA; confined space entry.	SRIR049
	Bidder's Product Description: See feature description.		
50	1 1/4" CMP Innerduct, ISP, in Existing Duct	Provide and install 1 1/4" CMP innerduct, ISP, in existing duct. Based on T&B, 1-1/4" innerduct, CMP or equivalent.	SRIR050
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Cable Placing and Consumables - pull line in place (does not include pathway, termination hardware, terminating or testing)			
51	300' Cat 6 Copper ISP Circuit Extension	Provide and install up to 300' Cat 6 copper ISP circuit extension. Based on Commscope, Cat6, CMP, 6504+ or equivalent.	SRIR051
	Bidder's Product Description: See feature description.		
52	300' Cat 6 Copper OSP Circuit Extension	Provide and install up to 300' Cat 6 copper OSP circuit extension. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIR052
	Bidder's Product Description: See feature description.		
53	300' 25-Pair Copper ISP Circuit Extension	Provide and install up to 300' 25-pair copper ISP circuit extension. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIR053
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
54	300' 25-Pair Copper OSP Circuit Extension	Provide and install up to 300' 25-pair copper OSP circuit extension. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIR054
	Bidder's Product Description: See feature description.		
55	300' RG58 COAX ISP	Provide and install up to 300' RG58 COAX ISP. Based on Belden, RG-58, CMP or equivalent.	SRIR055
	Bidder's Product Description: See feature description.		
56	300' RG62 COAX ISP	Provide and install up to 300' RG62 COAX ISP. Based on Belden, RG-62, CMP or equivalent.	SRIR056
	Bidder's Product Description: See feature description.		
57	300' RG6 COAX ISP	Provide and install up to 300' RG6 COAX ISP. Based on Belden, RG-6, CMP or equivalent.	SRIR057
	Bidder's Product Description: See feature description.		
58	300' Cat 6 Copper Indoor / Outdoor, CMR, Circuit Extension	Provide and install up to 300' Cat 6 copper Indoor / Outdoor, CMR, circuit extension. Based on Mohawk, Cat6, Indoor/Outdoor, CMR, M58772 or equivalent.	SRIR058
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension – Termination Hardware (terminating and testing not included)			
59	25-Pair Protector	Provide and install 25-pair protector. Based on Vertiv, 25 Pair Protector, 66in/66out, no cover, R66P25QC or equivalent.	SRIR059

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
60	50-Pair Protector	Provide and install 50-pair protector. Based on Circa, 50 Pair Protector, 66in/66out, no cover, 2650QC/QC or equivalent.	SRIR060
	Bidder's Product Description: See feature description.		
61	100-Pair Protector	Provide and install 100-pair protector. Based on Circa, 100 Pair Protector, 66in/66out, no cover, 26100QC/QC or equivalent.	SRIR061
	Bidder's Product Description: See feature description.		
62	4-Pair Protector	Provide and install 4-pair protector. Based on ITW LINX, 4 Pair Protector, CAT6-75 or equivalent.	SRIR062
	Bidder's Product Description: See feature description.		
63	Protector Modules	Provide and install protector modules. Based on Circa, Protector Module, 3B1E or equivalent.	SRIR063
	Bidder's Product Description: See feature description.		
64	66-Type Block 50 pair	Provide and install 66-type Block 50 pair. Based on Siemon, 50 Pair 66 Block, M1-50 or equivalent.	SRIR064
	Bidder's Product Description: See feature description.		
65	110-Style Block 100 Pair Kit	Provide and install 110-style block 100 pair kit. Based on Commscope, 100 Pair 110 Block Kit, 110AB2-100FT or equivalent.	SRIR065
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
66	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Rack Mount Enclosure, CCH-01U or equivalent.	SRIR066
	Bidder's Product Description: See feature description.		
67	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Rack Mount Enclosure, CCH-02U or equivalent.	SRIR067
	Bidder's Product Description: See feature description.		
68	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Wall Mount Enclosure, WCH-02P or equivalent.	SRIR068
	Bidder's Product Description: See feature description.		
69	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Wall Mount Enclosure, WCH-04P or equivalent.	SRIR069
	Bidder's Product Description: See feature description.		
70	6-Strand Connector Panel MM 50/125 SC	6-strand connector panel MM 50/125 SC. Based on Corning, 6-strand connector panel MM 50/125 SC, CCH-CP06-E7 or equivalent.	SRIR070
	Bidder's Product Description: See feature description.		
71	6-Strand Connector Panel MM 50/125 LC	6-strand connector panel MM 50/125 LC. Based on Corning, 6-strand connector panel MM 50/125 LC, CCH-CP06-E4 or equivalent.	SRIR071

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
72	6-Strand Connector Panel MM 62.5/125 SC	6-strand connector panel MM 62.5/125 SC. Based on Corning, 6-strand connector panel MM 62.5/125 SC, CCH-CP06-91 or equivalent.	SRIR072
	Bidder's Product Description: See feature description.		
73	6-Strand Connector Panel MM 62.5/125 LC	6-strand connector panel MM 62.5/125 LC. Based on Corning, 6-strand connector panel MM 62.5/125 LC, CCH-CP06-A8 or equivalent.	SRIR073
	Bidder's Product Description: See feature description.		
74	12-Strand Connector Panel MM 50/125 SC	12-strand connector panel MM 50/125 SC. Based on Corning, 12-strand connector panel MM 50/125 SC, CCH-CP12-E7 or equivalent.	SRIR074
	Bidder's Product Description: See feature description.		
75	12-Strand Connector Panel MM 50/125 LC	12-strand connector panel MM 50/125 LC. Based on Corning, 12-strand connector panel MM 50/125 LC, CCH-CP12-E4 or equivalent.	SRIR075
	Bidder's Product Description: See feature description.		
76	12-Strand Connector Panel MM 62.5/125 SC	12-strand connector panel MM 62.5/125 SC. Based on Corning, 12-strand connector panel MM 62.5/125 SC, CCH-CP12-91 or equivalent.	SRIR076
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
77	12-Strand Connector Panel MM 62.5/125 LC	12-strand connector panel MM 62.5/125 LC. Based on Corning, 12-strand connector panel MM 62.5/125 LC, CCH-CP12-A8 or equivalent.	SRIR077
	Bidder's Product Description: See feature description.		
78	6-Strand Connector Panel SM SC	6-strand connector panel SM SC. Based on Corning, 6-strand connector panel SM SC, CCH-CP06-59 or equivalent.	SRIR078
	Bidder's Product Description: See feature description.		
79	6-Strand Connector Panel SM LC	6-strand connector panel SM LC. Based on Corning, 6-strand connector panel SM LC, CCH-CP06-A9 or equivalent.	SRIR079
	Bidder's Product Description: See feature description.		
80	12-Strand Connector Panel SM SC	12-strand connector panel SM SC. Based on Corning, 12-strand connector panel SM SC, CCH-CP12-59 or equivalent.	SRIR080
	Bidder's Product Description: See feature description.		
81	12-Strand Connector Panel SM LC	12-strand connector panel SM LC. Based on Corning, 12-strand connector panel SM LC, CCH-CP12-A9 or equivalent.	SRIR081
	Bidder's Product Description: See feature description.		
82	SC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR082

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
83	SC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR083
	Bidder's Product Description: See feature description.		
84	SC Compatible Single Mode Connector, Anaerobic (Material Only)	SC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR084
	Bidder's Product Description: See feature description.		
85	LC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR085
	Bidder's Product Description: See feature description.		
86	LC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR086
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
87	LC Compatible Single Mode Connector, Anaerobic (Material Only)	LC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR087
	Bidder's Product Description: See feature description.		
88	RG-58 BNC Connector, Crimp Type, for CMP Cable	RG-58 BNC Connector, Crimp Type, For CMP cable. Based on Allen-Tel, RG-58 BNC Connector, Crimp Type, For CMP cable, GBNC58-PH or equivalent.	SRIR088
	Bidder's Product Description: See feature description.		
89	RG-62 BNC Connector, Crimp Type, for CMP Cable	RG-62 BNC Connector, Crimp Type, for CMP cable. Based on Allen-Tel, RG-62 BNC Connector, Crimp Type, for CMP cable, GBNC60-PO or equivalent.	SRIR089
	Bidder's Product Description: See feature description.		
90	RG-6 F Connector, Compression Type, for CMP Cable	RG-6 F Connector, Compression Type, for CMP cable. Based on Allen-Tel, RG-6 F Connector, Compression Type, for CMP cable, CT746 or equivalent.	SRIR090
	Bidder's Product Description: See feature description.		
91	Fan Out Kit, 6 Strand	Fan Out Kit, 6 Strand. Based on Corning, Fan Out Kit, 6 Strand, FAN-BT25-06 or equivalent.	SRIR091
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
92	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR092
	Bidder's Product Description: See feature description.		
93	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR093
	Bidder's Product Description: See feature description.		
94	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR094
	Bidder's Product Description: See feature description.		
95	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR095
	Bidder's Product Description: See feature description.		
96	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR096
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
97	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR097
	Bidder's Product Description: See feature description.		
98	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR098
	Bidder's Product Description: See feature description.		
99	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR099
	Bidder's Product Description: See feature description.		
100	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR100
	Bidder's Product Description: See feature description.		
101	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR101
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
102	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR102
	Bidder's Product Description: See feature description.		
103	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR103
	Bidder's Product Description: See feature description.		
104	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR104
	Bidder's Product Description: See feature description.		
105	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR105
	Bidder's Product Description: See feature description.		
106	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR106
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
107	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR107
	Bidder's Product Description: See feature description.		
108	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIR108
	Bidder's Product Description: See feature description.		
109	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable. Based on Single Mode 9/125 LC To LC 3 Meter Patch Cable or equivalent.	SRIR109
	Bidder's Product Description: See feature description.		
110	SC to Pigtail 50µm Multimode, 1 Meter	SC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR110
	Bidder's Product Description: See feature description.		
111	SC to Pigtail 62.5µm Multimode, 1 Meter	SC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR111
	Bidder's Product Description: See feature description.		
112	SC to Pigtail Single Mode, 1 Meter	SC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR112

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
113	LC to Pigtail 50µm Multimode, 1 Meter	LC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR113
	Bidder's Product Description: See feature description.		
114	LC to Pigtail 62.5µm Multimode, 1 Meter	LC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR114
	Bidder's Product Description: See feature description.		
115	LC to Pigtail Single Mode, 1 Meter	LC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR115
	Bidder's Product Description: See feature description.		
116	SC Compatible 50µm Multimode Connector	SC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR116
	Bidder's Product Description: See feature description.		
117	SC Compatible 62.5µm Multimode Connector	SC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR117
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
118	SC Compatible Single Mode Connector	SC Compatible Single Mode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR118
	Bidder's Product Description: See feature description.		
119	LC Compatible 50µm Multimode Connector	LC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR119
	Bidder's Product Description: See feature description.		
120	LC Compatible 62.5µm Multimode Connector	LC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIR120
	Bidder's Product Description: See feature description.		
121	LC Compatible Single Mode Connector	LC Compatible Single Mode connector (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIR121
	Bidder's Product Description: See feature description.		
122	Fan Out Kit, 12 Strand	Fan Out Kit, 12 Strand. Based on Corning, Fan Out Kit, 12 Strand, FAN-BT25-12 or equivalent.	SRIR122
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Termination and/or Testing (labor and consumables only)			
123	Copper Cable Splicing, Termination and Testing Per Pair	Copper cable splicing, termination and testing per pair (25 pair and larger). Based on 710 type copper splicing module or equivalent. As per industry practices splicing modules are used to splice 25 pair and larger.	SRIR123

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
124	Copper cable Termination Per Pair	Copper cable termination per pair (25 pair and larger). Based on 66 type or 110 type terminations or equivalent.	SRIR124
	Bidder's Product Description: See feature description.		
125	Copper Cable Splicing Per Pair	Copper cable splicing per pair (25 pair and larger). Based on 710 type copper splicing or equivalent.	SRIR125
	Bidder's Product Description: See feature description.		
126	Copper Cable Testing Per Pair	Copper cable testing per pair (25 pair and larger). Based on continuity test only.	SRIR126
	Bidder's Product Description: See feature description.		
127	Fiber Splicing, Termination and Testing Per Strand (Both Ends)	Fiber splicing, termination and testing per strand (both ends). Based on standard fusion splicing, per strand (both ends).	SRIR127
	Bidder's Product Description: See feature description.		
128	Fiber Termination Per Strand (One End)	Fiber termination per strand (one end). Based on fiber termination per strand (one end).	SRIR128
	Bidder's Product Description: See feature description.		
129	Fiber Splicing Per Strand (One End)	Fiber splicing per strand (one end). Based on standard fusion splicing, per strand (one end).	SRIR129

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
130	Fiber Testing Per Strand	Fiber testing per strand. Based on power meter testing per strand.	SRIR130
	Bidder's Product Description: See feature description.		
131	4-pair CAT5e Termination and Testing	4-pair CAT5e termination and testing.	SRIR131
	Bidder's Product Description: See feature description.		
132	4-pair Cat 6 Termination and Testing	4-pair Cat 6 termination and testing.	SRIR132
	Bidder's Product Description: See feature description.		
133	4-pair Cat 6 Jacking	4-pair Cat 6 jacking	SRIR133
	Bidder's Product Description: See feature description.		
134	4-pair Cat 6 Termination	4-pair Cat 6 termination	SRIR134
	Bidder's Product Description: See feature description.		
135	4-pair Cat 6 Testing	4-pair Cat 6 testing	SRIR135
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
136	4-pair Cat 6A Termination and Testing	4-pair Cat 6A termination and testing	SRIR136
	Bidder's Product Description: See feature description.		
137	4-pair Cat 6A Jacking	4-pair Cat 6A jacking	SRIR137
	Bidder's Product Description: See feature description.		
138	4-pair Cat 6A Termination	4-pair Cat 6A termination	SRIR138
	Bidder's Product Description: See feature description.		
139	4-pair Cat 6A Testing	4-pair Cat 6A testing	SRIR139
	Bidder's Product Description: See feature description.		
Station Cabling, Cable Placement and Consumables Only – pull line in place (does not include pathway or termination hardware)			
140	Single 4-Pair Cat 6 PVC Cable	Install single 4-pair Cat 6 PVC cable for voice or data application. Based on Commscope, Cat6, CMR, 65N4+ or equivalent.	SRIR140
	Bidder's Product Description: See feature description.		
141	Single 4-Pair Cat 6 Plenum Cable	Install single 4-pair Cat 6 plenum cable for voice or data application. Based on Commscope, Cat6, CMP, 6504+ or equivalent.	SRIR141
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
142	Single 4-Pair Cat 6 OSP Cable	Install single 4-pair Cat 6 OSP cable for voice or data application. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIR142
	Bidder's Product Description: See feature description.		
143	Single 4-Pair Cat 6A PVC Cable	Install single 4-pair Cat 6A PVC cable for voice or data application. Based on Commscope, Cat6A, CMR, 10GN4 or equivalent.	SRIR143
	Bidder's Product Description: See feature description.		
144	Single 4-Pair Cat 6A Plenum Cable	Install single 4-pair Cat 6A plenum cable for voice or data application. Based on Commscope, Cat6A, CMP, 10G4 or equivalent.	SRIR144
	Bidder's Product Description: See feature description.		
145	Single 4-Pair Cat 6A OSP Cable	Install single 4-pair Cat 6A OSP cable for voice or data application. Based on Mohawk, Cat6A, OSP, M59198 or equivalent.	SRIR145
	Bidder's Product Description: See feature description.		
146	Single 4-Pair Cat 6 Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6 Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6, Indoor/Outdoor, CMR, M58772 or equivalent.	SRIR146
	Bidder's Product Description: See feature description.		
147	Single 4-Pair Cat 6A Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6A Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6A, Indoor/Outdoor, CMR, M59202 or equivalent.	SRIR147
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
Additional Components (Material and Labor to Install)			
148	24-Port Unloaded Cat 6A Patch Panel	Provide and install one 24-port unloaded Cat 6A Patch Panel. Based on Commscope, 24 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-24 1U or equivalent.	SRIR148
	Bidder's Product Description: See feature description.		
149	48-Port Unloaded Cat 6A Patch Panel	Provide and install one 48-port unloaded Cat 6A Patch Panel. Based on Commscope, 48 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-48 2U or equivalent.	SRIR149
	Bidder's Product Description: See feature description.		
150	24-Port Cat 6 Patch Panel	Provide and install new 24-port Cat 6 patch panel. Based on Commscope, 24 Port Cat6 Patch Panel, UNP-U-610-1U-24 or equivalent.	SRIR150
	Bidder's Product Description: See feature description.		
151	48-Port Cat 6 Patch Panel	Provide and install new 48-port Cat 6 patch panel. Based on Commscope, 48 Port Cat6 Patch Panel, UNP-U-610-2U-48 or equivalent.	SRIR151
	Bidder's Product Description: See feature description.		
152	24-Port Cat 6A Patch Panel	Provide and install new 24-port Cat 6A patch panel. Based on Commscope, 24 Port Cat6A Patch Panel, UNP-U-10G-1U-24 or equivalent.	SRIR152
	Bidder's Product Description: See feature description.		
153	48-Port Cat 6A Patch Panel	Provide and install new 48-port Cat 6A patch panel. Based on Commscope, 48 Port Cat6A Patch Panel, UNP-U-10G-2U-48 or equivalent.	SRIR153

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
154	12-Port Cat 6 Patch Panel	Provide and install new 12-port Cat 6 patch panel. Based on Commscope, 12 Port Cat6 Patch Panel, UNP610-WM-12P or equivalent.	SRIR154
	Bidder's Product Description: See feature description.		
155	Face Plate Plastic	Provide and install face plate plastic. Based on Commscope, 4 Port Faceplate, Plastic, M14L or equivalent.	SRIR155
	Bidder's Product Description: See feature description.		
156	Modular Furniture Device Plate	Provide and install modular furniture device plate. Based on Commscope, Modular Furniture Faceplate, M14C or equivalent.	SRIR156
	Bidder's Product Description: See feature description.		
157	4-Port Stainless Steel Faceplate	Provide and install 4-port stainless steel faceplate. Based on Commscope, 4 Port Faceplate, Stainless Steel, M14SP or equivalent.	SRIR157
	Bidder's Product Description: See feature description.		
158	6-Port Stainless Steel Faceplate	Provide and install 6-port stainless steel faceplate. Based on Commscope, 6 Port Faceplate, Stainless Steel, M16SP-L or equivalent.	SRIR158
	Bidder's Product Description: See feature description.		
159	Cat 6 Jack Insert	Cat 6 jack insert. Based on Commscope, Cat 6 jack insert, UNJ600 or equivalent.	SRIR159

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
160	Cat 6A Jack Insert	Cat 6A jack insert. Based on Commscope, Cat 6A jack insert, UNJ10G or equivalent.	SRIR160
	Bidder's Product Description: See feature description.		
161	3' Cat 5e Patch Cord	3' Cat 5e patch cord. Based on Allen-Tel, 3' Cat 5e patch cord, AT1503EV-BU or equivalent.	SRIR161
	Bidder's Product Description: See feature description.		
162	10' Cat 5e Patch Cord	10' Cat 5e patch cord. Based on Allen-Tel, 10' Cat 5e patch cord, AT1510EV-BU or equivalent.	SRIR162
	Bidder's Product Description: See feature description.		
163	3' Cat 6 Patch Cord	3' Cat 6 patch cord. Based on Allen-Tel, 3' Cat 6 patch cord, AT1603-BU or equivalent.	SRIR163
	Bidder's Product Description: See feature description.		
164	10' Cat 6 Patch Cord	10' Cat 6 patch cord. Based on Allen-Tel, 10' Cat 6 patch cord, AT1610-BU or equivalent.	SRIR164
	Bidder's Product Description: See feature description.		
165	Velcro Ties	Velcro Ties (roll 25 yards). Based on Velcro USA, Velcro Ties (roll 25 yards), 3/4", non-plenum rated, 189645 or equivalent.	SRIR165
	Bidder's Product Description: See feature description.		
166	6.5" Fiber Splice Closure	Fiber splice closure. Based on Preformed, Fiber splice closure 6.5" x 22", 8006560 or equivalent.	SRIR166

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
167	Fiber Splice Tray	Fiber splice tray. Based on Preformed, Fiber splice tray, 36 Strand, 80805110 or equivalent.	SRIR167
	Bidder's Product Description: See feature description.		
168	Copper Splice Case 4.0x25	Copper splice case 4.0x25. Based on Preformed, Copper splice case, SS, 4.0" x 25", 8000624 or equivalent.	SRIR168
	Bidder's Product Description: See feature description.		
169	Copper Splice Case 6.5x28	Copper splice case 6.5x28. Based on Preformed, Copper splice case, SS, 6.5" x 28", 8000626 or equivalent.	SRIR169
	Bidder's Product Description: See feature description.		
170	Copper Splice Module 25 Pair (Material Only)	Copper splice module 25 pair (material only). Based on 3M, Copper splice module 25 pair, 710, 3M710-TCL-25 or equivalent. Restrictions: must be ordered in conjunction with copper splicing and testing.	SRIR170
	Bidder's Product Description: See feature description.		
171	Standoff Bracket for 66 Block (Material Only)	Standoff Bracket for 66 Block (Material Only). Based on Siemon, Standoff Bracket, S89B or equivalent. Restrictions: must be ordered in conjunction with 66-type Block.	SRIR171
	Bidder's Product Description: See feature description.		
Pathway			
172	Rod & Rope Conduit	Rod & rope conduit. Pull string or rope provided by contractor. Rope will be sized appropriately to cable.	SRIR172

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
173	Stick (10') of 1" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps	SRIR173
	Bidder's Product Description: See feature description.		
174	Stick (10') of 1 1/4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	SRIR174
	Bidder's Product Description: See feature description.		
175	Stick (10') of 2" EMT Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	SRIR175
	Bidder's Product Description: See feature description.		
176	Stick (10') of 1" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	SRIR176
	Bidder's Product Description: See feature description.		
177	Stick (10') of 1 1/4" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	SRIR177
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
178	Stick (10') of 2" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	SRIR178
	Bidder's Product Description: See feature description.		
179	1" EMT Stub	Provide and install one 1" EMT Stub up from device box to above ceiling and straps, connector and bushing. Assumes walls shall be open new construction or surface mount on existing walls; does not include opening or closing of walls.	SRIR179
	Bidder's Product Description: See feature description.		
180	1" 2-Hole Strap, EMT	1" 2-hole strap, EMT	SRIR180
	Bidder's Product Description: See feature description.		
181	1" Bushing, EMT	1" bushing, EMT	SRIR181
	Bidder's Product Description: See feature description.		
182	1" Compression Connector, EMT	1" compression connector, EMT	SRIR182
	Bidder's Product Description: See feature description.		
183	1" Compression Coupler, EMT	1" compression coupler, EMT	SRIR183
	Bidder's Product Description: See feature description.		
184	1" Unistrut Clamp, EMT	1" unistrut clamp, EMT	SRIR184

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
185	2" 2-Hole Strap, EMT	2" 2-hole strap, EMT	SRIR185
	Bidder's Product Description: See feature description.		
186	2" Bushing, EMT	2" bushing, EMT	SRIR186
	Bidder's Product Description: See feature description.		
187	2" Compression Connector, EMT	2" compression connector, EMT	SRIR187
	Bidder's Product Description: See feature description.		
188	2" Compression Coupler, EMT	2" compression coupler, EMT	SRIR188
	Bidder's Product Description: See feature description.		
189	2" Unistrut Clamp, EMT	2" unistrut clamp, EMT	SRIR189
	Bidder's Product Description: See feature description.		
190	3" 2-Hole Strap, EMT	3" 2-hole strap, EMT	SRIR190
	Bidder's Product Description: See feature description.		
191	3" Bushing, EMT	3" bushing, EMT	SRIR191

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
192	3" Compression Connector, EMT	3" compression connector, EMT	SRIR192
	Bidder's Product Description: See feature description.		
193	3" Compression Coupler, EMT	3" compression coupler, EMT	SRIR193
	Bidder's Product Description: See feature description.		
194	3" Unistrut Clamp, EMT	3" unistrut clamp, EMT	SRIR194
	Bidder's Product Description: See feature description.		
195	4" 2-Hole Strap, EMT	4" 2-hole strap, EMT	SRIR195
	Bidder's Product Description: See feature description.		
196	4" Bushing, EMT	4" bushing, EMT	SRIR196
	Bidder's Product Description: See feature description.		
197	4" Compression Connector, EMT	4" compression connector, EMT	SRIR197
	Bidder's Product Description: See feature description.		
198	4" Compression Coupler, EMT	4" compression coupler, EMT	SRIR198

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
199	4" Unistrut Clamp, EMT	4" unistrut clamp, EMT	SRIR199
	Bidder's Product Description: See feature description.		
200	1" 2-Hole Strap, Rigid	1" 2-hole strap, Rigid	SRIR200
	Bidder's Product Description: See feature description.		
201	1" Bushing, Rigid	1" bushing, Rigid	SRIR201
	Bidder's Product Description: See feature description.		
202	1" Compression Connector, Rigid	1" compression connector, Rigid	SRIR202
	Bidder's Product Description: See feature description.		
203	1" Compression Coupler, Rigid	1" compression coupler, Rigid	SRIR203
	Bidder's Product Description: See feature description.		
204	1" Unistrut Clamp, Rigid	1" unistrut clamp, Rigid	SRIR204
	Bidder's Product Description: See feature description.		
205	2" 2-Hole Strap, Rigid	2" 2-hole strap, Rigid	SRIR205

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
206	2" Bushing, Rigid	2" bushing, Rigid	SRIR206
	Bidder's Product Description: See feature description.		
207	2" Compression Connector, Rigid	2" compression connector, Rigid	SRIR207
	Bidder's Product Description: See feature description.		
208	2" Compression Coupler, Rigid	2" compression coupler, Rigid	SRIR208
	Bidder's Product Description: See feature description.		
209	2" Unistrut Clamp, Rigid	2" unistrut clamp, Rigid	SRIR209
	Bidder's Product Description: See feature description.		
210	2" J-Hook w/ Multi-Purpose Clip	2" J-Hook w/multipurpose clip	SRIR210
	Bidder's Product Description: See feature description.		
211	Bell Box	Bell box (raco 5387-0)	SRIR211
	Bidder's Product Description: See feature description.		
212	8"x8"x6" Pull Box NEMA 1	8"x8"x6" pull box NEMA 1	SRIR212

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
213	12"x12"x8" NEMA – 1 Junction Box NEMA 1	12"x12"x8" NEMA 1 junction box NEMA 1	SRIR213
	Bidder's Product Description: See feature description.		
214	12"x12"x8" NEMA – 1 Junction Box NEMA 3	12"x12"x8" NEMA 1 junction box NEMA 3	SRIR214
	Bidder's Product Description: See feature description.		
215	Install Customer Provided WAP	Install customer provided WAP (Wireless Access Point); (does not include configuration). Assumes customer provided WAP includes installation kit. Installation shall be limited to either drop ceiling or wall mount type installation; no custom installation.	SRIR215
	Bidder's Product Description: See feature description.		
216	WAP Enclosure	Provide and install WAP (Wireless Access Point) Enclosure. Based on Oberon, WAP (Wireless Access Point) Enclosure, 1024-00 or equivalent.	SRIR216
	Bidder's Product Description: See feature description.		
217	Install Customer Provided Camera	Install customer provided Camera (does not include configuration). Customer is responsible for location and orientation of cameras. Only for CCTV system, not for public emergency systems.	SRIR217
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
218	Install Customer Provided Paging Speaker - Drop Tile Ceiling	Install customer provided paging speaker Drop Tile Ceiling. Assumes that customer provided speaker includes drop ceiling installation bracket / hardware.	SRIR218
	Bidder's Product Description: See feature description.		
219	Unistrut Slotted 7/8"	Unistrut slotted 7/8"	SRIR219
	Bidder's Product Description: See feature description.		
220	1" Unistrut Straps	1" unistrut straps	SRIR220
	Bidder's Product Description: See feature description.		
221	2" Unistrut Straps	2" unistrut straps	SRIR221
	Bidder's Product Description: See feature description.		
222	1" EMT Sleeve	1" EMT sleeve (core or penetration not included)	SRIR222
	Bidder's Product Description: See feature description.		
223	2" EMT Sleeve	2" EMT sleeve (core or penetration not included)	SRIR223
	Bidder's Product Description: See feature description.		
224	3" EMT Sleeve	3" EMT sleeve (core or penetration not included)	SRIR224
	Bidder's Product Description: See feature description.		
225	4" EMT Sleeve	4" EMT sleeve (core or penetration not included)	SRIR225

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
226	8"x8"x6" Pull Box NEMA R3	8"x8"x6" pull box NEMA R3	SRIR226
	Bidder's Product Description: See feature description.		
227	18"x18"x8" Pull Box NEMA R3	18"x18"x8" pull box NEMA R3	SRIR227
	Bidder's Product Description: See feature description.		
228	24"x24"x8" Pull Box NEMA R3	24"x24"x8" pull box NEMA R3	SRIR228
	Bidder's Product Description: See feature description.		
229	2" Entrance Fitting (Weatherhead)	2" Entrance Fitting (Weatherhead)	SRIR229
	Bidder's Product Description: See feature description.		
230	2" Set Screw Connector, EMT	2" Set Screw Connector, EMT	SRIR230
	Bidder's Product Description: See feature description.		
231	2" Set Screw Coupling, EMT	2" Set Screw Coupling, EMT	SRIR231
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
232	Stick (10') of 3" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps	SRIR232
	Bidder's Product Description: See feature description.		
233	3" Set Screw Connector, EMT	3" Set Screw Connector, EMT	SRIR233
	Bidder's Product Description: See feature description.		
234	3" Set Screw Coupling, EMT	3" Set Screw Coupling, EMT	SRIR234
	Bidder's Product Description: See feature description.		
235	Stick (10') of 4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps	SRIR235
	Bidder's Product Description: See feature description.		
236	4" Set Screw Connector, EMT	4" Set Screw Connector, EMT	SRIR236
	Bidder's Product Description: See feature description.		
237	4" Set Screw Coupling, EMT	4" Set Screw Coupling, EMT	SRIR237
	Bidder's Product Description: See feature description.		
238	Unistrut Slotted 1-5/8"	Unistrut slotted 1-5/8"	SRIR238

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
239	Surface Mount Box	Surface mount box; based on 4S, J-Box or equivalent.	SRIR239
	Bidder's Product Description: See feature description.		
Raceway			
240	LD10 Surface Mount Raceway, 6 Foot Section	Provide and install LD10 Surface Mount Raceway, 6 Foot Section. Based on Panduit, LD10 Surface Mount Raceway, 6 Foot Section, LD10IW6-A or equivalent.	SRIR240
	Bidder's Product Description: See feature description.		
241	LD10 Coupler	Provide and install LD10 Coupler. Based on Panduit, LD10 Coupler, CFX10IW-X or equivalent.	SRIR241
	Bidder's Product Description: See feature description.		
242	LD10 Right Angle	Provide and install LD10 Right Angle. Based on Panduit, LD10 Right Angle, RAFC10IW-X or equivalent.	SRIR242
	Bidder's Product Description: See feature description.		
243	LD10 Inside Corner	Provide and install LD10 Inside Corner. Based on Panduit, LD10 Inside Corner, ICFC10IW-X or equivalent.	SRIR243
	Bidder's Product Description: See feature description.		
244	LD10 Outside Corner	Provide and install LD10 Outside Corner. Based on Panduit, LD10 Outside Corner, OCF10IW-X or equivalent.	SRIR244

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
245	LD10 Tee	Provide and install LD10 Tee. Based on Panduit, LD10 Tee, TFC10IW-X or equivalent.	SRIR245
	Bidder's Product Description: See feature description.		
246	LD10 Drop Ceiling Entrance	Provide and install LD10 Drop Ceiling Entrance. Based on Panduit, LD10 Drop Ceiling Entrance, DCF10IW-X or equivalent.	SRIR246
	Bidder's Product Description: See feature description.		
247	Plastic Single Gang Box, Deep	Provide and install Plastic Single Gang Box, Deep. Based on Panduit, Plastic Single Gang Box, Deep, JB1DIW-A or equivalent.	SRIR247
	Bidder's Product Description: See feature description.		
Other Tasks			
248	Core Drilling, 1" Hole	Core Drilling, 1" hole	SRIR248
	Bidder's Product Description: See feature description.		
249	Core Drilling, 2" Hole	Core Drilling, 2" hole	SRIR249
	Bidder's Product Description: See feature description.		
250	Core Drilling, 3" Hole	Core Drilling, 3" hole	SRIR250
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
251	Core Drilling, 4" Hole	Core Drilling, 4" hole	SRIR251
	Bidder's Product Description: See feature description.		
252	Wall Penetration - Drywall	Wall penetration – drywall. Includes 1 single gang mud ring only.	SRIR252
	Bidder's Product Description: See feature description.		
253	Scissor Lift Rental (20')	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees). Technician use of lift shall meet CAL OSHA standards.	SRIR253
	Bidder's Product Description: See feature description.		
254	Fire Seal Penetration, 1" Hole	Fire Seal Penetration, 1" hole	SRIR254
	Bidder's Product Description: See feature description.		
255	Fire Seal Penetration, 2" Hole	Fire Seal Penetration, 2" hole	SRIR255
	Bidder's Product Description: See feature description.		
256	Fire Seal Penetration, 3" Hole	Fire Seal Penetration, 3" hole	SRIR256
	Bidder's Product Description: See feature description.		
257	Fire Seal Penetration, 4" Hole	Fire Seal Penetration, 4" hole	SRIR257

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
258	Firestop, Moldable Putty Stick (Material Only)	Firestop, Moldable Putty Stick (Material Only). Restrictions: must be ordered in conjunction with Fire Seal Penetration.	SRIR258
	Bidder's Product Description: See feature description.		
259	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable. Salvage value to be forfeited by client.	SRIR259
	Bidder's Product Description: See feature description.		
260	Demolish, Remove, Wreck Equipment - Ancillaries Component	Demolish, Remove, Wreck Equipment - Ancillaries Component (Ex: Patch panel, Rack, Etc). Does not include removal and disposal of batteries or UPS.	SRIR260
	Bidder's Product Description: See feature description.		
Grounding and Bonding			
261	Relocate Existing Telephone Handset	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation. Includes up to 20' of 1 pair cross-connect wire	SRIR261
	Bidder's Product Description: See feature description.		
262	Install New Cross-Connect	Install new cross-connect. Includes up to 20' of 1 pair cross-connect wire.	SRIR262

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
263	Locate and Identify Circuit	Locate and Identify circuit - includes tone and tag and document.	SRIR263
	Bidder's Product Description: See feature description.		
264	# 6 AWG Conductor	Provide and install # 6 AWG conductor to existing building electrode system. This is the approved gauge conductor per code; building must have existing ground electrode system to bond to.	SRIR264
	Bidder's Product Description: See feature description.		
265	Busbar (TMGB Busbar)	Provide and install Busbar (TMGB Busbar). This is the approved telecom busbar.	SRIR265
	Bidder's Product Description: See feature description.		
266	Bonding Conduit - 1/2" EMT	Bonding Conduit - 1/2" EMT. This conduit is required when ground conductor traverses interior of building.	SRIR266
	Bidder's Product Description: See feature description.		
Miscellaneous			
267	Performance Bond Fee	Performance Bond Fee	SRIR269
	Bidder's Product Description: See feature description.		
268	AHJ Permit Fee	AHJ Permit Fee. Passed to customer at cost from AHJ (Authority Having Jurisdiction); no mark up.	SRIR270
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
269	Permit Handling Fee	Permit Handling Fee. Handling Fee Only	SRIR271
	Bidder's Product Description: See feature description.		

Table 1.2.8.4.b Services Related Infrastructure Overtime Hours

	Feature Name	Feature Description	Bidder's Product Identifier
Telco Room – MDF/IDF/MPOE			
1	Install Customer Provided UPS	Install customer provided UPS. Based on (1) customer provided 4RU rack mounted UPS, standard elecrtical connections, no electrical work required.	SRIT001
	Bidder's Product Description: See feature description.		
2	48-Port Switch (Patch Cords)	Cable 48-port switch (patch cords). Based on (48) Allen-Tel, 10' Cat 6 patch cord, AT1610-BU, Per 48 port switch.	SRIT002
	Bidder's Product Description: See feature description.		
3	7' 2-Post Rack	Provide and install 7' 2-post rack. Based on CPI, 7' X 19" - 2 Post Rack, Black, 55053-703 or equivalent.	SRIT003
	Bidder's Product Description: See feature description.		
4	7' 4-Post Rack	Provide and install 7' 4-post rack. Based on CPI, 7' X 19" - 4 Post Rack, Black, 50120-703 or equivalent.	SRIT004
	Bidder's Product Description: See feature description.		
5	Install Customer Provided Rack	Install customer provided rack. Based on (1) customer provided 2 post rack and misc floor mounting hardware.	SRIT005

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
6	Double Sided Horizontal Wire Manager	Install and provide horizontal wire manager. Based on CPI, Double Sided Horizontal Wire Manager, 30530-719 or equivalent.	SRIT006
	Bidder's Product Description: See feature description.		
7	Double Sided Vertical Wire Manager	Install and provide vertical wire manager. Based on CPI, CCS Vertical Wire Management, 6" W X 7' H Double Sided, Black 30162-703 or equivalent.	SRIT007
	Bidder's Product Description: See feature description.		
8	Install Customer Provided Wire Manager	Install customer provided wire manager. Based on (1) customer provided 2RU horizontal wire manager.	SRIT008
	Bidder's Product Description: See feature description.		
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U). Based on CPI, Single Sided Shelf, 3RMU, 40074-700 or equivalent.	SRIT009
	Bidder's Product Description: See feature description.		
10	Install Customer Provided Shelf	Install customer provided shelf. Based on (1) customer provided rack mounted fixed shelf.	SRIT010
	Bidder's Product Description: See feature description.		
11	Hinged Wall Bracket	Provide and install Hinged Wall Bracket. Based on Commscope, Hinged Wall Bracket, 3.5"H X 19"W X 5"D, 1100C1-35-19 or equivalent.	SRIT011

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
12	Power Strip (4 outlets)	Provide and Install each power strip (4 outlets). Based on TrippLite, Power Strip, 4 outlet, NEMA5-15R, 7OUT SRGE 7FT CRD or equivalent.	SRIT012
	Bidder's Product Description: See feature description.		
13	Ladder Rack and Support Hardware	Provide and install up to 10' of 12" ladder rack and support hardware. Based on CPI, 12" X 10' Cable Runway, Black, 11275-712 and misc hardware or equivalent.; see line items B through G in this section for associated supporting hardware.	SRIT013
	Bidder's Product Description: See feature description.		
14	Communication Pole 10 feet	Provide and install Communication pole 10 feet. Based on Wiremold, Comm Pole, 25DTC-410 or equivalent.	SRIT014
	Bidder's Product Description: See feature description.		
15	Fire Rated Un-painted Plywood Backboard	Provide and install 4' x 8' x 3/4" fire rated un-painted plywood backboard. Based on 3/4" X 4' X 8', Sheet Fire Rated Plywood, ACX or equivalent.	SRIT015
	Bidder's Product Description: See feature description.		
16	Wall Angle Support Kit	Provide and install Wall Angle Support Kit, 12", Black. Based on CPI, Wall Angle Support Kit, 12", Black, 11421-712 or equivalent.	SRIT016
	Bidder's Product Description: See feature description.		
17	Rack to Runway Adapter Plate	Provide and install 12" Rack to Runway Adapter Plate, Black. Based on CPI, 12" Rack to Runway Adapter Plate, Black, 10595-712 or equivalent.	SRIT017

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
18	Runway Support Brackets	Provide and install Runway Support Brackets. Based on CPI, Runway Support Brackets, 11408-001 or equivalent.	SRIT018
	Bidder's Product Description: See feature description.		
19	Slip-on Support Bracket, Cable Runway	Provide and install Slip-on Support Bracket, Cable Runway. Based on CPI, Slip-on Support Bracket, Cable Runway, 10873-001 or equivalent.	SRIT019
	Bidder's Product Description: See feature description.		
20	Protective End Caps for Runway, 1 Pair	Provide and install Protective End Caps for Runway, 1 Pair. Based on CPI, Protective End Caps for Runway, 1 Pair, 10642-001 or equivalent.	SRIT020
	Bidder's Product Description: See feature description.		
21	CPE - Flush Mounted Wall Bracket (For Network Gear)	Provide and install CPE - Flush Mounted Wall Bracket (For Network Gear); CPI 11583-719. Based on CPI, Flush Mounted Wall Bracket, 11583-719 or equivalent.	SRIT021
	Bidder's Product Description: See feature description.		
22	Runway Junction-Splice Kit	Provide and install runway Junction-Splice Kit. Based on CPI, Junction-Splice Kit, 16302-701 or equivalent.	SRIT022
	Bidder's Product Description: See feature description.		
23	Runway Butt-Splice Kit	Provide and install runway Butt-Splice Kit. Based on CPI, Butt-Splice Kit, 16301-701 or equivalent.	SRIT023

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
24	Cube-iT 12U Wall Mount Cabinet	Provide and install Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window). Based on CPI, Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window), 11900-724 or equivalent.	SRIT024
	Bidder's Product Description: See feature description.		
25	Cube-iT 24U Wall Mount Cabinet	Provide and install Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window). Based on CPI, Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window, 11900-748 or equivalent.	SRIT025
	Bidder's Product Description: See feature description.		
26	Cube-iT Fan Kit	Provide and install Cube-iT Fan Kit. Based on CPI, Cube-iT Fan Kit, 12804-701 or equivalent.	SRIT026
	Bidder's Product Description: See feature description.		
27	21U Swing Gate Rack	Provide and install 21U Swing Gate Rack - Wall Mount 19in. Based on CPI, 21U Swing Gate Rack - Wall Mount 19in., 11791-725 or equivalent.	SRIT027
	Bidder's Product Description: See feature description.		
28	New 120V/20A Circuit	Provide and install (1) new 120V/20A circuit equipped with new isolated ground and (2) NEMA 5-20R outlets. Includes up to 75' of 1/2" EMT and circuit breaker. Must have clear pathways, existing electrical panel, vacant slot in existing panel for new circuit breaker and existing main ground buss for the isolated ground.	SRIT028
	Bidder's Product Description: See feature description.		
Backbone Cabling Placing and Consumables			

	Feature Name	Feature Description	Bidder's Product Identifier
29	6-strand MM ISP fiber	Provide and install 6-strand MM ISP fiber. Based on Corning, 6 Strand MM (OM3), OFNP, MIC, 006T88-31180-29 or equivalent.	SRIT029
	Bidder's Product Description: See feature description.		
30	6-strand SM ISP fiber	Provide and install 6-strand SM ISP fiber. Based on Corning, 6 Strand SM (OS2), OFNP, MIC, 006E88-31131-29 or equivalent.	SRIT030
	Bidder's Product Description: See feature description.		
31	12-strand MM ISP fiber	Provide and install 12-strand MM ISP fiber. Based on Corning, 12 Strand MM (OM3), OFNP, MIC, 012T88-33180-29 or equivalent.	SRIT031
	Bidder's Product Description: See feature description.		
32	12-strand SM ISP fiber	Provide and install 12-strand SM ISP fiber. Based on Corning, 12 Strand SM (OS2), OFNP, MIC, 012E88-33131-29 or equivalent.	SRIT032
	Bidder's Product Description: See feature description.		
33	6-strand MM OSP Underground Fiber Freedm	Provide and install 6-strand MM OSP underground fiber Freedm. Based on Corning, 6 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006TSP-T4180D20 or equivalent.	SRIT033
	Bidder's Product Description: See feature description.		
34	6-strand SM OSP Underground Fiber Freedm	Provide and install 6-strand SM OSP underground fiber Freedm. Based on Corning, 6 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006ESP-T4101D20 or equivalent.	SRIT034
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
35	12-strand MM OSP Underground Fiber Freedm	Provide and install 12-strand MM OSP underground fiber Freedm. Based on Corning, 12 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012TSP-T4180D20 or equivalent.	SRIT035
	Bidder's Product Description: See feature description.		
36	12-strand SM OSP Underground Fiber Freedm	Provide and install 12-strand SM OSP underground fiber Freedm. Based on Corning, 12 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012ESP-T4101D20 or equivalent.	SRIT036
	Bidder's Product Description: See feature description.		
37	24-strand SM OSP Underground Fiber ALTOS	Provide and install 24-strand SM OSP underground fiber ALTOS. Based on Corning, 24 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 024ZU4-T4F22D20 or equivalent.	SRIT037
	Bidder's Product Description: See feature description.		
38	48-strand SM OSP Underground Fiber ALTOS	Provide and install 48-strand SM OSP underground fiber ALTOS. Based on Corning, 48 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 048ZU4-T4F22D20 or equivalent.	SRIT038
	Bidder's Product Description: See feature description.		
39	24-strand SM OSP Underground Fiber Freedm	Provide and install 24-strand SM OSP underground fiber Freedm. Based on Corning, 24 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 024EWP-T4101D20 or equivalent.	SRIT039
	Bidder's Product Description: See feature description.		
40	48-strand SM OSP Underground Fiber Freedm	Provide and install 48-strand SM OSP underground fiber Freedm. Based on Corning, 48 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 048EWP-T4101D20 or equivalent.	SRIT040

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
41	1" Innerduct Underground in Existing Duct	Provide and install 1" innerduct underground in existing duct. Based on T&B, 1" innerduct, HDPE or equivalent.	SRIT041
	Bidder's Product Description: See feature description.		
42	1 1/4" Innerduct Underground in Existing Duct	Provide and install 1 1/4" innerduct underground in existing duct. Based on T&B, 1-1/4" innerduct, HDPE or equivalent.	SRIT042
	Bidder's Product Description: See feature description.		
43	CAT3 25-Pair Copper ISP	Provide and install 25-pair copper ISP. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIT043
	Bidder's Product Description: See feature description.		
44	25-Pair Copper Underground OSP	Provide and install 25-pair copper underground OSP. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIT044
	Bidder's Product Description: See feature description.		
45	CAT3 50-Pair Copper ISP	Provide and install 50-pair copper ISP. Based on Superior Essex, Cat3, 50 pair, CMP or equivalent.	SRIT045
	Bidder's Product Description: See feature description.		
46	50-Pair Copper Underground OSP	Provide and install 50-pair copper underground OSP. Based on Superior Essex, 50 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIT046
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
47	CAT3 100-Pair Copper ISP	Provide and install 100-pair copper ISP. Based on Superior Essex, Cat3, 100 pair, CMP or equivalent.	SRIT047
	Bidder's Product Description: See feature description.		
48	100-Pair Copper Underground OSP	Provide and install 100-pair copper underground OSP. Based on Superior Essex, 100 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIT048
	Bidder's Product Description: See feature description.		
49	Manhole Set Up	Manhole Set up. As required per Cal-OSHA; confined space entry.	SRIT049
	Bidder's Product Description: See feature description.		
50	1 1/4" CMP Innerduct, ISP, in Existing Duct	Provide and install 1 1/4" CMP innerduct, ISP, in existing duct. Based on T&B, 1-1/4" innerduct, CMP or equivalent.	SRIT050
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Cable Placing and Consumables			
51	300' Cat 6 Copper ISP Circuit Extension	Provide and install up to 300' Cat 6 copper ISP circuit extension. Based on Commscope, Cat6, CMP,6504+ or equivalent.	SRIT051
	Bidder's Product Description: See feature description.		
52	300' Cat 6 Copper OSP Circuit Extension	Provide and install up to 300' Cat 6 copper OSP circuit extension. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIT052
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
53	300' 25-Pair Copper ISP Circuit Extension	Provide and install up to 300' 25-pair copper ISP circuit extension. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIT053
	Bidder's Product Description: See feature description.		
54	300' 25-Pair Copper OSP Circuit Extension	Provide and install up to 300' 25-pair copper OSP circuit extension. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIT054
	Bidder's Product Description: See feature description.		
55	300' RG58 COAX ISP	Provide and install up to 300' RG58 COAX ISP. Based on Belden, RG-58, CMP or equivalent.	SRIT055
	Bidder's Product Description: See feature description.		
56	300' RG62 COAX ISP	Provide and install up to 300' RG62 COAX ISP. Based on Belden, RG-62, CMP or equivalent.	SRIT056
	Bidder's Product Description: See feature description.		
57	300' RG6 COAX ISP	Provide and install up to 300' RG6 COAX ISP. Based on Belden, RG-6, CMP or equivalent.	SRIT057
	Bidder's Product Description: See feature description.		
58	300' Cat 6 Copper Indoor / Outdoor, CMR, Circuit Extension	Provide and install up to 300' Cat 6 copper Indoor / Outdoor, CMR, circuit extension. Based on Mohawk, Cat6, Indoor/Outdoor , CMR, M58772 or equivalent.	SRIT058
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
Backbone and Circuit Extension – Termination Hardware			
59	25-Pair Protector	Provide and install 25-pair protector. Based on Vertiv, 25 Pair Protector, 66in/66out, no cover, R66P25QC or equivalent.	SRIT059
	Bidder's Product Description: See feature description.		
60	50-Pair Protector	Provide and install 50-pair protector. Based on Circa, 50 Pair Protector, 66in/66out, no cover, 2650QC/QC or equivalent.	SRIT060
	Bidder's Product Description: See feature description.		
61	100-Pair Protector	Provide and install 100-pair protector. Based on Circa, 100 Pair Protector, 66in/66out, no cover, 26100QC/QC or equivalent.	SRIT061
	Bidder's Product Description: See feature description.		
62	4-Pair Protector	Provide and install 4-pair protector. Based on ITW LINX, 4 Pair Protector, CAT6-75 or equivalent.	SRIT062
	Bidder's Product Description: See feature description.		
63	Protector Modules	Provide and install protector modules. Based on Circa, Protector Module, 3B1E or equivalent.	SRIT063
	Bidder's Product Description: See feature description.		
64	66-Type Block 50 pair	Provide and install 66-type Block 50 pair. Based on Siemon, 50 Pair 66 Block, M1-50 or equivalent.	SRIT064
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
65	110-Style Block 100 Pair Kit	Provide and install 110-style block 100 pair kit. Based on Commscope, 100 Pair 110 Block Kit, 110AB2-100FT or equivalent.	SRIT065
	Bidder's Product Description: See feature description.		
66	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Rack Mount Enclosure, CCH-01U or equivalent.	SRIT066
	Bidder's Product Description: See feature description.		
67	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Rack Mount Enclosure, CCH-02U or equivalent.	SRIT067
	Bidder's Product Description: See feature description.		
68	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Wall Mount Enclosure, WCH-02P or equivalent.	SRIT068
	Bidder's Product Description: See feature description.		
69	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Wall Mount Enclosure, WCH-04P or equivalent.	SRIT069
	Bidder's Product Description: See feature description.		
70	6-Strand Connector Panel MM 50/125 SC	6-strand connector panel MM 50/125 SC. Based on Corning, 6-strand connector panel MM 50/125 SC, CCH-CP06-E7 or equivalent.	SRIT070

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
71	6-Strand Connector Panel MM 50/125 LC	6-strand connector panel MM 50/125 LC. Based on Corning, 6-strand connector panel MM 50/125 LC, CCH-CP06-E4 or equivalent.	SRIT071
	Bidder's Product Description: See feature description.		
72	6-Strand Connector Panel MM 62.5/125 SC	6-strand connector panel MM 62.5/125 SC. Based on Corning, 6-strand connector panel MM 62.5/125 SC, CCH-CP06-91 or equivalent.	SRIT072
	Bidder's Product Description: See feature description.		
73	6-Strand Connector Panel MM 62.5/125 LC	6-strand connector panel MM 62.5/125 LC. Based on Corning, 6-strand connector panel MM 62.5/125 LC, CCH-CP06-A8 or equivalent.	SRIT073
	Bidder's Product Description: See feature description.		
74	12-Strand Connector Panel MM 50/125 SC	12-strand connector panel MM 50/125 SC. Based on Corning, 12-strand connector panel MM 50/125 SC, CCH-CP12-E7 or equivalent.	SRIT074
	Bidder's Product Description: See feature description.		
75	12-Strand Connector Panel MM 50/125 LC	12-strand connector panel MM 50/125 LC. Based on Corning, 12-strand connector panel MM 50/125 LC, CCH-CP12-E4 or equivalent.	SRIT075
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
76	12-Strand Connector Panel MM 62.5/125 SC	12-strand connector panel MM 62.5/125 SC. Based on Corning, 12-strand connector panel MM 62.5/125 SC, CCH-CP12-91 or equivalent.	SRIT076
	Bidder's Product Description: See feature description.		
77	12-Strand Connector Panel MM 62.5/125 LC	12-strand connector panel MM 62.5/125 LC. Based on Corning, 12-strand connector panel MM 62.5/125 LC, CCH-CP12-A8 or equivalent.	SRIT077
	Bidder's Product Description: See feature description.		
78	6-Strand Connector Panel SM SC	6-strand connector panel SM SC. Based on Corning, 6-strand connector panel SM SC, CCH-CP06-59 or equivalent.	SRIT078
	Bidder's Product Description: See feature description.		
79	6-Strand Connector Panel SM LC	6-strand connector panel SM LC. Based on Corning, 6-strand connector panel SM LC, CCH-CP06-A9 or equivalent.	SRIT078
	Bidder's Product Description: See feature description.		
80	12-Strand Connector Panel SM SC	12-strand connector panel SM SC. Based on Corning, 12-strand connector panel SM SC, CCH-CP12-59 or equivalent.	SRIT080
	Bidder's Product Description: See feature description.		
81	12-Strand Connector Panel SM LC	12-strand connector panel SM LC. Based on Corning, 12-strand connector panel SM LC, CCH-CP12-A9 or equivalent.	SRIT081
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
82	SC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT082
	Bidder's Product Description: See feature description.		
83	SC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT083
	Bidder's Product Description: See feature description.		
84	SC Compatible Single Mode Connector, Anaerobic (Material Only)	SC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT084
	Bidder's Product Description: See feature description.		
85	LC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT085
	Bidder's Product Description: See feature description.		
86	LC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT086

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
87	LC Compatible Single Mode Connector, Anaerobic (Material Only)	LC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT087
	Bidder's Product Description: See feature description.		
88	RG-58 BNC Connector, Crimp Type, for CMP Cable	RG-58 BNC Connector, Crimp Type, For CMP cable. Based on Allen-Tel, RG-58 BNC Connector, Crimp Type, For CMP cable, GBNC58-PH or equivalent.	SRIT088
	Bidder's Product Description: See feature description.		
89	RG-62 BNC Connector, Crimp Type, for CMP Cable	RG-62 BNC Connector, Crimp Type, for CMP cable. Based on Allen-Tel, RG-62 BNC Connector, Crimp Type, for CMP cable, GBNC60-PO or equivalent.	SRIT089
	Bidder's Product Description: See feature description.		
90	RG-6 F Connector, Compression Type, for CMP Cable	RG-6 F Connector, Compression Type, for CMP cable. Based on Allen-Tel, RG-6 F Connector, Compression Type, for CMP cable, CT746 or equivalent.	SRIT090
	Bidder's Product Description: See feature description.		
91	Fan Out Kit, 6 Strand	Fan Out Kit, 6 Strand. Based on Corning, Fan Out Kit, 6 Strand, FAN-BT25-06 or equivalent.	SRIT091
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
92	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT092
	Bidder's Product Description: See feature description.		
93	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT093
	Bidder's Product Description: See feature description.		
94	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT094
	Bidder's Product Description: See feature description.		
95	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT095
	Bidder's Product Description: See feature description.		
96	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT096
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
97	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT097
	Bidder's Product Description: See feature description.		
98	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT098
	Bidder's Product Description: See feature description.		
99	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT099
	Bidder's Product Description: See feature description.		
100	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT100
	Bidder's Product Description: See feature description.		
101	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT101
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
102	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT102
	Bidder's Product Description: See feature description.		
103	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT103
	Bidder's Product Description: See feature description.		
104	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT104
	Bidder's Product Description: See feature description.		
105	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT105
	Bidder's Product Description: See feature description.		
106	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT106
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
107	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT107
	Bidder's Product Description: See feature description.		
108	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIT108
	Bidder's Product Description: See feature description.		
109	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable. Based on Single Mode 9/125 LC To LC 3 Meter Patch Cable or equivalent.	SRIT109
	Bidder's Product Description: See feature description.		
110	SC to Pigtail 50µm Multimode, 1 Meter	SC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT110
	Bidder's Product Description: See feature description.		
111	SC to Pigtail 62.5µm Multimode, 1 Meter	SC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT111
	Bidder's Product Description: See feature description.		
112	SC to Pigtail Single Mode, 1 Meter	SC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT112

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
113	LC to Pigtail 50µm Multimode, 1 Meter	LC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT113
	Bidder's Product Description: See feature description.		
114	LC to Pigtail 62.5µm Multimode, 1 Meter	LC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT114
	Bidder's Product Description: See feature description.		
115	LC to Pigtail Single Mode, 1 Meter	LC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT115
	Bidder's Product Description: See feature description.		
116	SC Compatible 50µm Multimode Connector	SC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT116
	Bidder's Product Description: See feature description.		
117	SC Compatible 62.5µm Multimode Connector	SC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT117
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
118	SC Compatible Single Mode Connector	SC Compatible Single Mode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT118
	Bidder's Product Description: See feature description.		
119	LC Compatible 50µm Multimode Connector	LC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT119
	Bidder's Product Description: See feature description.		
120	LC Compatible 62.5µm Multimode Connector	LC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIT120
	Bidder's Product Description: See feature description.		
121	LC Compatible Single Mode Connector	LC Compatible Single Mode connector (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIT121
	Bidder's Product Description: See feature description.		
122	Fan Out Kit, 12 Strand	Fan Out Kit, 12 Strand. Based on Corning, Fan Out Kit, 12 Strand, FAN-BT25-12 or equivalent.	SRIT122
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Termination and/or Testing (labor and consumables only)			
123	Copper Cable Splicing, Termination and Testing Per Pair	Copper cable splicing, termination and testing per pair (25 pair and larger). Based on 710 type copper splicing module or equivalent. As per industry practices splicing modules are used to splice 25 pair and larger.	SRIT123

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
124	Copper cable Termination Per Pair	Copper cable termination per pair (25 pair and larger). Based on 66 type or 110 type terminations or equivalent.	SRIT124
	Bidder's Product Description: See feature description.		
125	Copper Cable Splicing Per Pair	Copper cable splicing per pair (25 pair and larger). Based on 710 type copper splicing or equivalent.	SRIT125
	Bidder's Product Description: See feature description.		
126	Copper Cable Testing Per Pair	Copper cable testing per pair (25 pair and larger). Based on continuity test only.	SRIT126
	Bidder's Product Description: See feature description.		
127	Fiber Splicing, Termination and Testing Per Strand (Both Ends)	Fiber splicing, termination and testing per strand (both ends). Based on standard fusion splicing, per strand (both ends).	SRIT127
	Bidder's Product Description: See feature description.		
128	Fiber Termination Per Strand (One End)	Fiber termination per strand (one end). Based on fiber termination per strand (one end).	SRIT128
	Bidder's Product Description: See feature description.		
129	Fiber Splicing Per Strand (One End)	Fiber splicing per strand (one end). Based on standard fusion splicing, per strand (one end).	SRIT129

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
130	Fiber Testing Per Strand	Fiber testing per strand. Based on power meter testing per strand.	SRIT130
	Bidder's Product Description: See feature description.		
131	4-pair CAT5e Termination and Testing	4-pair CAT5e termination and testing.	SRIT131
	Bidder's Product Description: See feature description.		
132	4-pair Cat 6 Termination and Testing	4-pair Cat 6 termination and testing.	SRIT132
	Bidder's Product Description: See feature description.		
133	4-pair Cat 6 Jacking	4-pair Cat 6 jacking.	SRIT133
	Bidder's Product Description: See feature description.		
134	4-pair Cat 6 Termination	4-pair Cat 6 termination	SRIT134
	Bidder's Product Description: See feature description.		
135	4-pair Cat 6 Testing	4-pair Cat 6 testing	SRIT135
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
136	4-pair Cat 6A Termination and Testing	4-pair Cat 6A termination and testing	SRIT136
	Bidder's Product Description: See feature description.		
137	4-pair Cat 6A Jacking	4-pair Cat 6A jacking	SRIT137
	Bidder's Product Description: See feature description.		
138	4-pair Cat 6A Termination	4-pair Cat 6A termination	SRIT138
	Bidder's Product Description: See feature description.		
139	4-pair Cat 6A Testing	4-pair Cat 6A testing	SRIT139
	Bidder's Product Description: See feature description.		
Station Cabling, Cable Placement and Consumables Only – pull line in place (does not SRIR include pathway or termination hardware)			
140	Single 4-Pair Cat 6 PVC Cable	Install single 4-pair Cat 6 PVC cable for voice or data application. Based on Commscope, Cat6, CMR, 65N4+ or equivalent.	SRIT140
	Bidder's Product Description: See feature description.		
141	Single 4-Pair Cat 6 Plenum Cable	Install single 4-pair Cat 6 plenum cable for voice or data application. Based on Commscope, Cat6, CMP, 6504+ or equivalent.	SRIT141
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
142	Single 4-Pair Cat 6 OSP Cable	Install single 4-pair Cat 6 OSP cable for voice or data application. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIT142
	Bidder's Product Description: See feature description.		
143	Single 4-Pair Cat 6A PVC Cable	Install single 4-pair Cat 6A PVC cable for voice or data application. Based on Commscope, Cat6A, CMR, 10GN4 or equivalent.	SRIT143
	Bidder's Product Description: See feature description.		
144	Single 4-Pair Cat 6A Plenum Cable	Install single 4-pair Cat 6A plenum cable for voice or data application. Based on Commscope, Cat6A, CMP, 10G4 or equivalent.	SRIT144
	Bidder's Product Description: See feature description.		
145	Single 4-Pair Cat 6A OSP Cable	Install single 4-pair Cat 6A OSP cable for voice or data application. Based on Mohawk, Cat6A, OSP, M59198 or equivalent.	SRIT145
	Bidder's Product Description: See feature description.		
146	Single 4-Pair Cat 6 Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6 Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6, Indoor/Outdoor, CMR, M58772 or equivalent.	SRIT146
	Bidder's Product Description: See feature description.		
147	Single 4-Pair Cat 6A Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6A Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6A, Indoor/Outdoor, CMR, M59202 or equivalent.	SRIT147
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
Additional Components (Material and Labor to Install)			
148	24-Port Unloaded Cat 6A Patch Panel	Provide and install one 24-port unloaded Cat 6A Patch Panel. Based on Commscope, 24 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-24 1U or equivalent.	SRIT148
	Bidder's Product Description: See feature description.		
149	48-Port Unloaded Cat 6A Patch Panel	Provide and install one 48-port unloaded Cat 6A Patch Panel. Based on Commscope, 48 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-48 2U or equivalent.	SRIT149
	Bidder's Product Description: See feature description.		
150	24-Port Cat 6 Patch Panel	Provide and install new 24-port Cat 6 patch panel. Based on Commscope, 24 Port Cat6 Patch Panel, UNP-U-610-1U-24 or equivalent.	SRIT150
	Bidder's Product Description: See feature description.		
151	48-Port Cat 6 Patch Panel	Provide and install new 48-port Cat 6 patch panel. Based on Commscope, 48 Port Cat6 Patch Panel, UNP-U-610-2U-48 or equivalent.	SRIT151
	Bidder's Product Description: See feature description.		
152	24-Port Cat 6A Patch Panel	Provide and install new 24-port Cat 6A patch panel. Based on Commscope, 24 Port Cat6A Patch Panel, UNP-U-10G-1U-24 or equivalent.	SRIT152
	Bidder's Product Description: See feature description.		
153	48-Port Cat 6A Patch Panel	Provide and install new 48-port Cat 6A patch panel. Based on Commscope, 48 Port Cat6A Patch Panel, UNP-U-10G-2U-48 or equivalent.	SRIT153

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
154	12-Port Cat 6 Patch Panel	Provide and install new 12-port Cat 6 patch panel. Based on Commscope, 12 Port Cat6 Patch Panel, UNP610-WM-12P or equivalent.	SRIT154
	Bidder's Product Description: See feature description.		
155	Face Plate Plastic	Provide and install face plate plastic. Based on Commscope, 4 Port Faceplate, Plastic, M14L or equivalent.	SRIT155
	Bidder's Product Description: See feature description.		
156	Modular Furniture Device Plate	Provide and install modular furniture device plate. Based on Commscope, Modular Furniture Faceplate, M14C or equivalent.	SRIT156
	Bidder's Product Description: See feature description.		
157	4-Port Stainless Steel Faceplate	Provide and install 4-port stainless steel faceplate. Based on Commscope, 4 Port Faceplate, Stainless Steel, M14SP or equivalent.	SRIT157
	Bidder's Product Description: See feature description.		
158	6-Port Stainless Steel Faceplate	Provide and install 6-port stainless steel faceplate. Based on Commscope, 6 Port Faceplate, Stainless Steel, M16SP-L or equivalent.	SRIT158
	Bidder's Product Description: See feature description.		
159	Cat 6 Jack Insert	Cat 6 jack insert. Based on Commscope, Cat 6 jack insert, UNJ600 or equivalent.	SRIT159

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
160	Cat 6A Jack Insert	Cat 6A jack insert. Based on Commscope, Cat 6A jack insert, UNJ10G or equivalent.	SRIT160
	Bidder's Product Description: See feature description.		
161	3' Cat 5e Patch Cord	3' Cat 5e patch cord. Based on Allen-Tel, 3' Cat 5e patch cord, AT1503EV-BU or equivalent.	SRIT161
	Bidder's Product Description: See feature description.		
162	10' Cat 5e Patch Cord	10' Cat 5e patch cord. Based on Allen-Tel, 10' Cat 5e patch cord, AT1510EV-BU or equivalent.	SRIT162
	Bidder's Product Description: See feature description.		
163	3' Cat 6 Patch Cord	3' Cat 6 patch cord. Based on Allen-Tel, 3' Cat 6 patch cord, AT1603-BU or equivalent.	SRIT163
	Bidder's Product Description: See feature description.		
164	10' Cat 6 Patch Cord	10' Cat 6 patch cord. Based on Allen-Tel, 10' Cat 6 patch cord, AT1610-BU or equivalent.	SRIT164
	Bidder's Product Description: See feature description.		
165	Velcro Ties	Velcro Ties (roll 25 yards). Based on Velcro USA, Velcro Ties (roll 25 yards), 3/4", non-plenum rated, 189645 or equivalent.	SRIT165
	Bidder's Product Description: See feature description.		
166	6.5" Fiber Splice Closure	Fiber splice closure. Based on Preformed, Fiber splice closure 6.5" x 22", 8006560 or equivalent.	SRIT166

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
167	Fiber Splice Tray	Fiber splice tray. Based on Preformed, Fiber splice tray, 36 Strand, 80805110 or equivalent.	SRIT167
	Bidder's Product Description: See feature description.		
168	Copper Splice Case 4.0x25	Copper splice case 4.0x25. Based on Preformed, Copper splice case, SS, 4.0" x 25", 8000624 or equivalent.	SRIT168
	Bidder's Product Description: See feature description.		
169	Copper Splice Case 6.5x28	Copper splice case 6.5x28. Based on Preformed, Copper splice case, SS, 6.5" x 28", 8000626 or equivalent.	SRIT169
	Bidder's Product Description: See feature description.		
170	Copper Splice Module 25 Pair (Material Only)	Copper splice module 25 pair (material only). Based on 3M, Copper splice module 25 pair, 710, 3M710-TCL-25 or equivalent. Restrictions: must be ordered in conjunction with copper splicing and testing.	SRIT170
	Bidder's Product Description: See feature description.		
171	Standoff Bracket for 66 Block (Material Only)	Standoff Bracket for 66 Block (Material Only). Based on Siemon, Standoff Bracket, S89B or equivalent. Restrictions: must be ordered in conjunction with 66-type Block.	SRIT171
	Bidder's Product Description: See feature description.		
Pathway			
172	Rod & Rope Conduit	Rod & rope conduit. Pull string or rope provided by contractor. Rope will be sized appropriately to cable.	SRIT172

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
173	Stick (10') of 1" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps	SRIT173
	Bidder's Product Description: See feature description.		
174	Stick (10') of 1 1/4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	SRIT174
	Bidder's Product Description: See feature description.		
175	Stick (10') of 2" EMT Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	SRIT175
	Bidder's Product Description: See feature description.		
176	Stick (10') of 1" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	SRIT176
	Bidder's Product Description: See feature description.		
177	Stick (10') of 1 1/4" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	SRIT177
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
178	Stick (10') of 2" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	SRIT178
	Bidder's Product Description: See feature description.		
179	1" EMT Stub	Provide and install one 1" EMT Stub up from device box to above ceiling and straps, connector and bushing. Assumes walls shall be open new construction or surface mount on existing walls; does not include opening or closing of walls.	SRIT179
	Bidder's Product Description: See feature description.		
180	1" 2-Hole Strap, EMT	1" 2-hole strap, EMT	SRIT180
	Bidder's Product Description: See feature description.		
181	1" Bushing, EMT	1" bushing, EMT	SRIT181
	Bidder's Product Description: See feature description.		
182	1" Compression Connector, EMT	1" compression connector, EMT	SRIT182
	Bidder's Product Description: See feature description.		
183	1" Compression Coupler, EMT	1" compression coupler, EMT	SRIT183
	Bidder's Product Description: See feature description.		
184	1" Unistrut Clamp, EMT	1" unistrut clamp, EMT	SRIT184

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
185	2" 2-Hole Strap, EMT	2" 2-hole strap, EMT	SRIT185
	Bidder's Product Description: See feature description.		
186	2" Bushing, EMT	2" bushing, EMT	SRIT186
	Bidder's Product Description: See feature description.		
187	2" Compression Connector, EMT	2" compression connector, EMT	SRIT187
	Bidder's Product Description: See feature description.		
188	2" Compression Coupler, EMT	2" compression coupler, EMT	SRIT188
	Bidder's Product Description: See feature description.		
189	2" Unistrut Clamp, EMT	2" unistrut clamp, EMT	SRIT189
	Bidder's Product Description: See feature description.		
190	3" 2-Hole Strap, EMT	3" 2-hole strap, EMT	SRIT190
	Bidder's Product Description: See feature description.		
191	3" Bushing, EMT	3" bushing, EMT	SRIT191

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
192	3" Compression Connector, EMT	3" compression connector, EMT	SRIT192
	Bidder's Product Description: See feature description.		
193	3" Compression Coupler, EMT	3" compression coupler, EMT	SRIT193
	Bidder's Product Description: See feature description.		
194	3" Unistrut Clamp, EMT	3" unistrut clamp, EMT	SRIT194
	Bidder's Product Description: See feature description.		
195	4" 2-Hole Strap, EMT	4" 2-hole strap, EMT	SRIT195
	Bidder's Product Description: See feature description.		
196	4" Bushing, EMT	4" bushing, EMT	SRIT196
	Bidder's Product Description: See feature description.		
197	4" Compression Connector, EMT	4" compression connector, EMT	SRIT197
	Bidder's Product Description: See feature description.		
198	4" Compression Coupler, EMT	4" compression coupler, EMT	SRIT198

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
199	4" Unistrut Clamp, EMT	4" unistrut clamp, EMT	SRIT199
	Bidder's Product Description: See feature description.		
200	1" 2-Hole Strap, Rigid	1" 2-hole strap, Rigid	SRIT200
	Bidder's Product Description: See feature description.		
201	1" Bushing, Rigid	1" bushing, Rigid	SRIT201
	Bidder's Product Description: See feature description.		
202	1" Compression Connector, Rigid	1" compression connector, Rigid	SRIT202
	Bidder's Product Description: See feature description.		
203	1" Compression Coupler, Rigid	1" compression coupler, Rigid	SRIT203
	Bidder's Product Description: See feature description.		
204	1" Unistrut Clamp, Rigid	1" unistrut clamp, Rigid	SRIT204
	Bidder's Product Description: See feature description.		
205	2" 2-Hole Strap, Rigid	2" 2-hole strap, Rigid	SRIT205

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
206	2" Bushing, Rigid	2" bushing, Rigid	SRIT206
	Bidder's Product Description: See feature description.		
207	2" Compression Connector, Rigid	2" compression connector, Rigid	SRIT207
	Bidder's Product Description: See feature description.		
208	2" Compression Coupler, Rigid	2" compression coupler, Rigid	SRIT208
	Bidder's Product Description: See feature description.		
209	2" Unistrut Clamp, Rigid	2" unistrut clamp, Rigid	SRIT209
	Bidder's Product Description: See feature description.		
210	2" J-Hook w/ Multi-Purpose Clip	2" J-Hook w/multipurpose clip	SRIT210
	Bidder's Product Description: See feature description.		
211	Bell Box	Bell box (raco 5387-0)	SRIT211
	Bidder's Product Description: See feature description.		
212	8"x8"x6" Pull Box NEMA 1	8"x8"x6" pull box NEMA 1	SRIT212

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
213	12"x12"x8" NEMA – 1 Junction Box NEMA 1	12"x12"x8" NEMA – 1 junction box NEMA 1	SRIT213
	Bidder's Product Description: See feature description.		
214	12"x12"x8" NEMA – 1 Junction Box NEMA 3	12"x12"x8" NEMA – 1 junction box NEMA 3	SRIT214
	Bidder's Product Description: See feature description.		
215	Install Customer Provided WAP	Install customer provided WAP (Wireless Access Point); (does not include configuration). Assumes customer provided WAP includes installation kit. Installation shall be limited to either drop ceiling or wall mount type installation; no custom installation.	SRIT215
	Bidder's Product Description: See feature description.		
216	WAP Enclosure	Provide and install WAP (Wireless Access Point) Enclosure. Based on Oberon, WAP (Wireless Access Point) Enclosure, 1024-00 or equivalent.	SRIT216
	Bidder's Product Description: See feature description.		
217	Install Customer Provided Camera	Install customer provided Camera (does not include configuration). Customer is responsible for location and orientation of cameras. Only for CCTV system, not for public emergency systems.	SRIT217
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
218	Install Customer Provided Paging Speaker - Drop Tile Ceiling	Install customer provided paging speaker Drop Tile Ceiling. Assumes that customer provided speaker includes drop ceiling installation bracket / hardware.	SRIT218
	Bidder's Product Description: See feature description.		
219	Unistrut Slotted 7/8"	Unistrut slotted 7/8"	SRIT219
	Bidder's Product Description: See feature description.		
220	1" Unistrut Straps	1" unistrut straps	SRIT220
	Bidder's Product Description: See feature description.		
221	2" Unistrut Straps	2" unistrut straps	SRIT221
	Bidder's Product Description: See feature description.		
222	1" EMT Sleeve	1" EMT sleeve (core or penetration not included)	SRIT222
	Bidder's Product Description: See feature description.		
223	2" EMT Sleeve	2" EMT sleeve (core or penetration not included)	SRIT223
	Bidder's Product Description: See feature description.		
224	3" EMT Sleeve	3" EMT sleeve (core or penetration not included)	SRIT224
	Bidder's Product Description: See feature description.		
225	4" EMT Sleeve	4" EMT sleeve (core or penetration not included)	SRIT225

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
226	8"x8"x6" Pull Box NEMA R3	8"x8"x6" pull box NEMA R3	SRIT226
	Bidder's Product Description: See feature description.		
227	18"x18"x8" Pull Box NEMA R3	18"x18"x8" pull box NEMA R3	SRIT227
	Bidder's Product Description: See feature description.		
228	24"x24"x8" Pull Box NEMA R3	24"x24"x8" pull box NEMA R3	SRIT228
	Bidder's Product Description: See feature description.		
229	2" Entrance Fitting (Weatherhead)	2" Entrance Fitting (Weatherhead)	SRIT228
	Bidder's Product Description: See feature description.		
230	2" Set Screw Connector, EMT	2" Set Screw Connector, EMT	SRIT230
	Bidder's Product Description: See feature description.		
231	2" Set Screw Coupling, EMT	2" Set Screw Coupling, EMT	SRIT231
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
232	Stick (10') of 3" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps	SRIT232
	Bidder's Product Description: See feature description.		
233	3" Set Screw Connector, EMT	3" Set Screw Connector, EMT	SRIT233
	Bidder's Product Description: See feature description.		
234	3" Set Screw Coupling, EMT	3" Set Screw Coupling, EMT	SRIT234
	Bidder's Product Description: See feature description.		
235	Stick (10') of 4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps	SRIT235
	Bidder's Product Description: See feature description.		
236	4" Set Screw Connector, EMT	4" Set Screw Connector, EMT	SRIT236
	Bidder's Product Description: See feature description.		
237	4" Set Screw Coupling, EMT	4" Set Screw Coupling, EMT	SRIT237
	Bidder's Product Description: See feature description.		
238	Unistrut Slotted 1-5/8"	Unistrut slotted 1-5/8"	SRIT238

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
239	Surface Mount Box	Surface mount box; based on 4S, J-Box or equivalent.	SRIT239
	Bidder's Product Description: See feature description.		
Raceway			
240	LD10 Surface Mount Raceway, 6 Foot Section	Provide and install LD10 Surface Mount Raceway, 6 Foot Section. Based on Panduit, LD10 Surface Mount Raceway, 6 Foot Section, LD10IW6-A or equivalent.	SRIT240
	Bidder's Product Description: See feature description.		
241	LD10 Coupler	Provide and install LD10 Coupler. Based on Panduit, LD10 Coupler, CFX10IW-X or equivalent.	SRIT241
	Bidder's Product Description: See feature description.		
242	LD10 Right Angle	Provide and install LD10 Right Angle. Based on Panduit, LD10 Right Angle, RAFC10IW-X or equivalent.	SRIT242
	Bidder's Product Description: See feature description.		
243	LD10 Inside Corner	Provide and install LD10 Inside Corner. Based on Panduit, LD10 Inside Corner, ICFC10IW-X or equivalent.	SRIT243
	Bidder's Product Description: See feature description.		
244	LD10 Outside Corner	Provide and install LD10 Outside Corner. Based on Panduit, LD10 Outside Corner, OCF10IW-X or equivalent.	SRIT244

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
245	LD10 Tee	Provide and install LD10 Tee. Based on Panduit, LD10 Tee, TFC10IW-X or equivalent.	SRIT245
	Bidder's Product Description: See feature description.		
246	LD10 Drop Ceiling Entrance	Provide and install LD10 Drop Ceiling Entrance. Based on Panduit, LD10 Drop Ceiling Entrance, DCF10IW-X or equivalent.	SRIT246
	Bidder's Product Description: See feature description.		
247	Plastic Single Gang Box, Deep	Provide and install Plastic Single Gang Box, Deep. Based on Panduit, Plastic Single Gang Box, Deep, JB1DIW-A or equivalent.	SRIT247
	Bidder's Product Description: See feature description.		
Other Tasks			
248	Core Drilling, 1" Hole	Core Drilling, 1" hole	SRIT248
	Bidder's Product Description: See feature description.		
249	Core Drilling, 2" Hole	Core Drilling, 2" hole	SRIT249
	Bidder's Product Description: See feature description.		
250	Core Drilling, 3" Hole	Core Drilling, 3" hole	SRIT250
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
251	Core Drilling, 4" Hole	Core Drilling, 4" hole	SRIT251
	Bidder's Product Description: See feature description.		
252	Wall Penetration - Drywall	Wall penetration – drywall. Includes 1 single gang mud ring only.	SRIT252
	Bidder's Product Description: See feature description.		
253	Scissor Lift Rental (20')	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees). Technician use of lift shall meet CAL OSHA standards.	SRIT253
	Bidder's Product Description: See feature description.		
254	Fire Seal Penetration, 1" Hole	Fire Seal Penetration, 1" hole	SRIT254
	Bidder's Product Description: See feature description.		
255	Fire Seal Penetration, 2" Hole	Fire Seal Penetration, 2" hole	SRIT255
	Bidder's Product Description: See feature description.		
256	Fire Seal Penetration, 3" Hole	Fire Seal Penetration, 3" hole	SRIT256
	Bidder's Product Description: See feature description.		
257	Fire Seal Penetration, 4" Hole	Fire Seal Penetration, 4" hole	SRIT257

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
258	Firestop, Moldable Putty Stick (Material Only)	Firestop, Moldable Putty Stick (Material Only). Restrictions: must be ordered in conjunction with Fire Seal Penetration.	SRIT258
	Bidder's Product Description: See feature description.		
259	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable. Salvage value to be forfeited by client.	SRIT259
	Bidder's Product Description: See feature description.		
260	Demolish, Remove, Wreck Equipment - Ancillaries Component	Demolish, Remove, Wreck Equipment - Ancillaries Component (Ex: Patch panel, Rack, Etc). Does not include removal and disposal of batteries or UPS.	SRIT260
	Bidder's Product Description: See feature description.		
Grounding and Bonding			
261	Relocate Existing Telephone Handset	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation. Includes up to 20' of 1 pair cross-connect wire	SRIT261
	Bidder's Product Description: See feature description.		
262	Install New Cross-Connect	Install new cross-connect. Includes up to 20' of 1 pair cross-connect wire.	SRIT262

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
263	Locate and Identify Circuit	Locate and Identify circuit - includes tone and tag and document.	SRIT263
	Bidder's Product Description: See feature description.		
264	# 6 AWG Conductor	Provide and install # 6 AWG conductor to existing building electrode system. This is the approved gauge conductor per code; building must have existing ground electrode system to bond to.	SRIT264
	Bidder's Product Description: See feature description.		
265	Busbar (TMGB Busbar)	Provide and install Busbar (TMGB Busbar). This is the approved telecom busbar.	SRIT265
	Bidder's Product Description: See feature description.		
266	Bonding Conduit - 1/2" EMT	Bonding Conduit - 1/2" EMT. This conduit is required when ground conductor traverses interior of building.	SRIT266
	Bidder's Product Description: See feature description.		
Miscellaneous			
267	Performance Bond Fee	Performance Bond Fee	SRIT269
	Bidder's Product Description: See feature description.		
268	AHJ Permit Fee	AHJ Permit Fee. Passed to customer at cost from AHJ (Authority Having Jurisdiction); no mark up.	SRIT270
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
269	Permit Handling Fee	Permit Handling Fee. Handling Fee Only	SRIT271
	Bidder's Product Description: See feature description.		

Table 1.2.8.4.c Services Related Infrastructure Sunday and Holiday Hours

	Feature Name	Feature Description	Bidder's Product Identifier
Telco Room – MDF/IDF/MPOE			
1	Install Customer Provided UPS	Install customer provided UPS. Based on (1) customer provided 4RU rack mounted UPS, standard elecrtical connections, no electrical work required.	SRIS001
	Bidder's Product Description: See feature description.		
2	48-Port Switch (Patch Cords)	Cable 48-port switch (patch cords). Based on (48) Allen-Tel, 10' Cat 6 patch cord, AT1610-BU, Per 48 port switch.	SRIS002
	Bidder's Product Description: See feature description.		
3	7' 2-Post Rack	Provide and install 7' 2-post rack. Based on CPI, 7' X 19" - 2 Post Rack, Black, 55053-703 or equivalent.	SRIS003
	Bidder's Product Description: See feature description.		
4	7' 4-Post Rack	Provide and install 7' 4-post rack. Based on CPI, 7' X 19" - 4 Post Rack, Black, 50120-703 or equivalent.	SRIS004

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
5	Install Customer Provided Rack	Install customer provided rack. Based on (1) customer provided 2 post rack and misc floor mounting hardware.	SRIS005
	Bidder's Product Description: See feature description.		
6	Double Sided Horizontal Wire Manager	Install and provide horizontal wire manager. Based on CPI, Double Sided Horizontal Wire Manager, 30530-719 or equivalent.	SRIS006
	Bidder's Product Description: See feature description.		
7	Double Sided Vertical Wire Manager	Install and provide vertical wire manager. Based on CPI, CCS Vertical Wire Management, 6" W X 7' H Double Sided, Black 30162-703 or equivalent.	SRIS007
	Bidder's Product Description: See feature description.		
8	Install Customer Provided Wire Manager	Install customer provided wire manager. Based on (1) customer provided 2RU horizontal wire manager.	SRIS008
	Bidder's Product Description: See feature description.		
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U). Based on CPI, Single Sided Shelf, 3RMU, 40074-700 or equivalent.	SRIS009
	Bidder's Product Description: See feature description.		
10	Install Customer Provided Shelf	Install customer provided shelf. Based on (1) customer provided rack mounted fixed shelf.	SRIS010

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
11	Hinged Wall Bracket	Provide and install Hinged Wall Bracket. Based on Commscope, Hinged Wall Bracket, 3.5"H X 19"W X 5"D, 1100C1-35-19 or equivalent.	SRIS011
	Bidder's Product Description: See feature description.		
12	Power Strip (4 outlets)	Provide and Install each power strip (4 outlets). Based on TrippLite, Power Strip, 4 outlet, NEMA5-15R, 7OUT SRGE 7FT CRD or equivalent.	SRIS012
	Bidder's Product Description: See feature description.		
13	Ladder Rack and Support Hardware	Provide and install up to 10' of 12" ladder rack and support hardware. Based on CPI, 12" X 10' Cable Runway, Black, 11275-712 and misc hardware or equivalent.; see line items B through G in this section for associated supporting hardware.	SRIS013
	Bidder's Product Description: See feature description.		
14	Communication Pole 10 feet	Provide and install Communication pole 10 feet. Based on Wiremold, Comm Pole, 25DTC-410 or equivalent.	SRIS014
	Bidder's Product Description: See feature description.		
15	Fire Rated Un-painted Plywood Backboard	Provide and install 4' x 8' x 3/4" fire rated un-painted plywood backboard. Based on 3/4" X 4' X 8', Sheet Fire Rated Plywood, ACX or equivalent.	SRIS015
	Bidder's Product Description: See feature description.		
16	Wall Angle Support Kit	Provide and install Wall Angle Support Kit, 12", Black. Based on CPI, Wall Angle Support Kit, 12", Black, 11421-712 or equivalent.	SRIS016

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
17	Rack to Runway Adapter Plate	Provide and install 12" Rack to Runway Adapter Plate, Black. Based on CPI, 12" Rack to Runway Adapter Plate, Black, 10595-712 or equivalent.	SRIS017
	Bidder's Product Description: See feature description.		
18	Runway Support Brackets	Provide and install Runway Support Brackets. Based on CPI, Runway Support Brackets, 11408-001 or equivalent.	SRIS018
	Bidder's Product Description: See feature description.		
19	Slip-on Support Bracket, Cable Runway	Provide and install Slip-on Support Bracket, Cable Runway. Based on CPI, Slip-on Support Bracket, Cable Runway, 10873-001 or equivalent.	SRIS019
	Bidder's Product Description: See feature description.		
20	Protective End Caps for Runway, 1 Pair	Provide and install Protective End Caps for Runway, 1 Pair. Based on CPI, Protective End Caps for Runway, 1 Pair, 10642-001 or equivalent.	SRIS020
	Bidder's Product Description: See feature description.		
21	CPE - Flush Mounted Wall Bracket (For Network Gear)	Provide and install CPE - Flush Mounted Wall Bracket (For Network Gear); CPI 11583-719. Based on CPI, Flush Mounted Wall Bracket, 11583-719 or equivalent.	SRIS021
	Bidder's Product Description: See feature description.		
22	Runway Junction-Splice Kit	Provide and install runway Junction-Splice Kit. Based on CPI, Junction-Splice Kit, 16302-701 or equivalent.	SRIS022

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
23	Runway Butt-Splice Kit	Provide and install runway Butt-Splice Kit. Based on CPI, Butt-Splice Kit, 16301-701 or equivalent.	SRIS023
	Bidder's Product Description: See feature description.		
24	Cube-iT 12U Wall Mount Cabinet	Provide and install Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window). Based on CPI, Cube-iT 12U Wall Mount Cabinet (24" deep, Tinted Window), 11900-724 or equivalent.	SRIS024
	Bidder's Product Description: See feature description.		
25	Cube-iT 24U Wall Mount Cabinet	Provide and install Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window). Based on CPI, Cube-iT 24U Wall Mount Cabinet (24" deep, Tinted window, 11900-748 or equivalent.	SRIS025
	Bidder's Product Description: See feature description.		
26	Cube-iT Fan Kit	Provide and install Cube-iT Fan Kit. Based on CPI, Cube-iT Fan Kit, 12804-701 or equivalent.	SRIS026
	Bidder's Product Description: See feature description.		
27	21U Swing Gate Rack	Provide and install 21U Swing Gate Rack - Wall Mount 19in. Based on CPI, 21U Swing Gate Rack - Wall Mount 19in., 11791-725 or equivalent.	SRIS027
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
28	New 120V/20A Circuit	Provide and install (1) new 120V/20A circuit equipped with new isolated ground and (2) NEMA 5-20R outlets. Includes up to 75' of 1/2" EMT and circuit breaker. Must have clear pathways, existing electrical panel, vacant slot in existing panel for new circuit breaker and existing main ground buss for the isolated ground.	SRIS028
	Bidder's Product Description: See feature description.		
Backbone Cabling Placing and Consumables			
29	6-strand MM ISP fiber	Provide and install 6-strand MM ISP fiber. Based on Corning, 6 Strand MM (OM3), OFNP, MIC, 006T88-31180-29 or equivalent.	SRIS029
	Bidder's Product Description: See feature description.		
30	6-strand SM ISP fiber	Provide and install 6-strand SM ISP fiber. Based on Corning, 6 Strand SM (OS2), OFNP, MIC, 006E88-31131-29 or equivalent.	SRIS030
	Bidder's Product Description: See feature description.		
31	12-strand MM ISP fiber	Provide and install 12-strand MM ISP fiber. Based on Corning, 12 Strand MM (OM3), OFNP, MIC, 012T88-33180-29 or equivalent.	SRIS031
	Bidder's Product Description: See feature description.		
32	12-strand SM ISP fiber	Provide and install 12-strand SM ISP fiber. Based on Corning, 12 Strand SM (OS2), OFNP, MIC, 012E88-33131-29 or equivalent.	SRIS032
	Bidder's Product Description: See feature description.		
33	6-strand MM OSP Underground Fiber Freedm	Provide and install 6-strand MM OSP underground fiber Freedm. Based on Corning, 6 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006TSP-T4180D20 or equivalent.	SRIS033

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
34	6-strand SM OSP Underground Fiber Freedm	Provide and install 6-strand SM OSP underground fiber Freedm. Based on Corning, 6 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 006ESP-T4101D20 or equivalent.	SRIS034
	Bidder's Product Description: See feature description.		
35	12-strand MM OSP Underground Fiber Freedm	Provide and install 12-strand MM OSP underground fiber Freedm. Based on Corning, 12 MM (OM3) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012TSP-T4180D20 or equivalent.	SRIS035
	Bidder's Product Description: See feature description.		
36	12-strand SM OSP Underground Fiber Freedm	Provide and install 12-strand SM OSP underground fiber Freedm. Based on Corning, 12 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 012ESP-T4101D20 or equivalent.	SRIS036
	Bidder's Product Description: See feature description.		
37	24-strand SM OSP Underground Fiber ALTOS	Provide and install 24-strand SM OSP underground fiber ALTOS. Based on Corning, 24 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 024ZU4-T4F22D20 or equivalent.	SRIS037
	Bidder's Product Description: See feature description.		
38	48-strand SM OSP Underground Fiber ALTOS	Provide and install 48-strand SM OSP underground fiber ALTOS. Based on Corning, 48 SM (OS2) fiber Optic Cable, ALTOS, Loose Tube, 048ZU4-T4F22D20 or equivalent.	SRIS038
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
39	24-strand SM OSP Underground Fiber Freedm	Provide and install 24-strand SM OSP underground fiber Freedm. Based on Corning, 24 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 024EWP-T4101D20 or equivalent.	SRIS039
	Bidder's Product Description: See feature description.		
40	48-strand SM OSP Underground Fiber Freedm	Provide and install 48-strand SM OSP underground fiber Freedm. Based on Corning, 48 SM (OS2) In-Outdoor fiber Optic Cable, OFNP, Freedm, Loose Tube, 048EWP-T4101D20 or equivalent.	SRIS040
	Bidder's Product Description: See feature description.		
41	1" Innerduct Underground in Existing Duct	Provide and install 1" innerduct underground in existing duct. Based on T&B, 1" innerduct, HDPE or equivalent.	SRIS041
	Bidder's Product Description: See feature description.		
42	1 1/4" Innerduct Underground in Existing Duct	Provide and install 1 1/4" innerduct underground in existing duct. Based on T&B, 1-1/4" innerduct, HDPE or equivalent.	SRIS042
	Bidder's Product Description: See feature description.		
43	CAT3 25-Pair Copper ISP	Provide and install 25-pair copper ISP. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIS043
	Bidder's Product Description: See feature description.		
44	25-Pair Copper Underground OSP	Provide and install 25-pair copper underground OSP. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIS044
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
45	CAT3 50-Pair Copper ISP	Provide and install 50-pair copper ISP. Based on Superior Essex, Cat3, 50 pair, CMP or equivalent.	SRIS045
	Bidder's Product Description: See feature description.		
46	50-Pair Copper Underground OSP	Provide and install 50-pair copper underground OSP. Based on Superior Essex, 50 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIS046
	Bidder's Product Description: See feature description.		
47	CAT3 100-Pair Copper ISP	Provide and install 100-pair copper ISP. Based on Superior Essex, Cat3, 100 pair, CMP or equivalent.	SRIS047
	Bidder's Product Description: See feature description.		
48	100-Pair Copper Underground OSP	Provide and install 100-pair copper underground OSP. Based on Superior Essex, 100 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIS048
	Bidder's Product Description: See feature description.		
49	Manhole Set Up	Manhole Set up. As required per Cal-OSHA; confined space entry.	SRIS049
	Bidder's Product Description: See feature description.		
50	1 1/4" CMP Innerduct, ISP, in Existing Duct	Provide and install 1 1/4" CMP innerduct, ISP, in existing duct. Based on T&B, 1-1/4" innerduct, CMP or equivalent.	SRIS050
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Cable Placing and Consumables			

	Feature Name	Feature Description	Bidder's Product Identifier
51	300' Cat 6 Copper ISP Circuit Extension	Provide and install up to 300' Cat 6 copper ISP circuit extension. Based on Commscope, Cat6, CMP,6504+ or equivalent.	SRIS051
	Bidder's Product Description: See feature description.		
52	300' Cat 6 Copper OSP Circuit Extension	Provide and install up to 300' Cat 6 copper OSP circuit extension. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIS052
	Bidder's Product Description: See feature description.		
53	300' 25-Pair Copper ISP Circuit Extension	Provide and install up to 300' 25-pair copper ISP circuit extension. Based on Superior Essex, Cat3, 25 pair, CMP or equivalent.	SRIS053
	Bidder's Product Description: See feature description.		
54	300' 25-Pair Copper OSP Circuit Extension	Provide and install up to 300' 25-pair copper OSP circuit extension. Based on Superior Essex, 25 pair, OSP, PE 89, 24 AWG. or equivalent.	SRIS054
	Bidder's Product Description: See feature description.		
55	300' RG58 COAX ISP	Provide and install up to 300' RG58 COAX ISP. Based on Belden, RG-58, CMP or equivalent.	SRIS055
	Bidder's Product Description: See feature description.		
56	300' RG62 COAX ISP	Provide and install up to 300' RG62 COAX ISP. Based on Belden, RG-62, CMP or equivalent.	SRIS056
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
57	300' RG6 COAX ISP	Provide and install up to 300' RG6 COAX ISP. Based on Belden, RG-6, CMP or equivalent.	SRIS057
	Bidder's Product Description: See feature description.		
58	300' Cat 6 Copper Indoor / Outdoor, CMR, Circuit Extension	Provide and install up to 300' Cat 6 copper Indoor / Outdoor, CMR, circuit extension. Based on Mohawk, Cat6, Indoor/Outdoor , CMR, M58772 or equivalent.	SRIS058
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension – Termination Hardware			
59	25-Pair Protector	Provide and install 25-pair protector. Based on Vertiv, 25 Pair Protector, 66in/66out, no cover, R66P25QC or equivalent.	SRIS059
	Bidder's Product Description: See feature description.		
60	50-Pair Protector	Provide and install 50-pair protector. Based on Circa, 50 Pair Protector, 66in/66out, no cover, 2650QC/QC or equivalent.	SRIS060
	Bidder's Product Description: See feature description.		
61	100-Pair Protector	Provide and install 100-pair protector. Based on Circa, 100 Pair Protector, 66in/66out, no cover, 26100QC/QC or equivalent.	SRIS061
	Bidder's Product Description: See feature description.		
62	4-Pair Protector	Provide and install 4-pair protector. Based on ITW LINX, 4 Pair Protector, CAT6-75 or equivalent.	SRIS062
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
63	Protector Modules	Provide and install protector modules. Based on Circa, Protector Module, 3B1E or equivalent.	SRIS063
	Bidder's Product Description: See feature description.		
64	66-Type Block 50 pair	Provide and install 66-type Block 50 pair. Based on Siemon, 50 Pair 66 Block, M1-50 or equivalent.	SRIS064
	Bidder's Product Description: See feature description.		
65	110-Style Block 100 Pair Kit	Provide and install 110-style block 100 pair kit. Based on Commscope, 100 Pair 110 Block Kit, 110AB2-100FT or equivalent.	SRIS065
	Bidder's Product Description: See feature description.		
66	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Rack Mount Enclosure, CCH-01U or equivalent.	SRIS066
	Bidder's Product Description: See feature description.		
67	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Rack Mount Enclosure, CCH-02U or equivalent.	SRIS067
	Bidder's Product Description: See feature description.		
68	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Based on Corning, 24 Port Wall Mount Enclosure, WCH-02P or equivalent.	SRIS068
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
69	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Based on Corning, 48 Port Wall Mount Enclosure, WCH-04P or equivalent.	SRIS069
	Bidder's Product Description: See feature description.		
70	6-Strand Connector Panel MM 50/125 SC	6-strand connector panel MM 50/125 SC. Based on Corning, 6-strand connector panel MM 50/125 SC, CCH-CP06-E7 or equivalent.	SRIS070
	Bidder's Product Description: See feature description.		
71	6-Strand Connector Panel MM 50/125 LC	6-strand connector panel MM 50/125 LC. Based on Corning, 6-strand connector panel MM 50/125 LC, CCH-CP06-E4 or equivalent.	SRIS071
	Bidder's Product Description: See feature description.		
72	6-Strand Connector Panel MM 62.5/125 SC	6-strand connector panel MM 62.5/125 SC. Based on Corning, 6-strand connector panel MM 62.5/125 SC, CCH-CP06-91 or equivalent.	SRIS072
	Bidder's Product Description: See feature description.		
73	6-Strand Connector Panel MM 62.5/125 LC	6-strand connector panel MM 62.5/125 LC. Based on Corning, 6-strand connector panel MM 62.5/125 LC, CCH-CP06-A8 or equivalent.	SRIS073
	Bidder's Product Description: See feature description.		
74	12-Strand Connector Panel MM 50/125 SC	12-strand connector panel MM 50/125 SC. Based on Corning, 12-strand connector panel MM 50/125 SC, CCH-CP12-E7 or equivalent.	SRIS074

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
75	12-Strand Connector Panel MM 50/125 LC	12-strand connector panel MM 50/125 LC. Based on Corning, 12-strand connector panel MM 50/125 LC, CCH-CP12-E4 or equivalent.	SRIS075
	Bidder's Product Description: See feature description.		
76	12-Strand Connector Panel MM 62.5/125 SC	12-strand connector panel MM 62.5/125 SC. Based on Corning, 12-strand connector panel MM 62.5/125 SC, CCH-CP12-91 or equivalent.	SRIS076
	Bidder's Product Description: See feature description.		
77	12-Strand Connector Panel MM 62.5/125 LC	12-strand connector panel MM 62.5/125 LC. Based on Corning, 12-strand connector panel MM 62.5/125 LC, CCH-CP12-A8 or equivalent.	SRIS077
	Bidder's Product Description: See feature description.		
78	6-Strand Connector Panel SM SC	6-strand connector panel SM SC. Based on Corning, 6-strand connector panel SM SC, CCH-CP06-59 or equivalent.	SRIS078
	Bidder's Product Description: See feature description.		
79	6-Strand Connector Panel SM LC	6-strand connector panel SM LC. Based on Corning, 6-strand connector panel SM LC, CCH-CP06-A9 or equivalent.	SRIS079
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
80	12-Strand Connector Panel SM SC	12-strand connector panel SM SC. Based on Corning, 12-strand connector panel SM SC, CCH-CP12-59 or equivalent.	SRIS080
	Bidder's Product Description: See feature description.		
81	12-Strand Connector Panel SM LC	12-strand connector panel SM LC. Based on Corning, 12-strand connector panel SM LC, CCH-CP12-A9 or equivalent.	SRIS081
	Bidder's Product Description: See feature description.		
82	SC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS082
	Bidder's Product Description: See feature description.		
83	SC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	SC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS083
	Bidder's Product Description: See feature description.		
84	SC Compatible Single Mode Connector, Anaerobic (Material Only)	SC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS084
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
85	LC Compatible 50µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 50µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS085
	Bidder's Product Description: See feature description.		
86	LC Compatible 62.5µm Multimode Connector, Anaerobic (Material Only)	LC Compatible 62.5µm Multimode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS086
	Bidder's Product Description: See feature description.		
87	LC Compatible Single Mode Connector, Anaerobic (Material Only)	LC Compatible Single Mode connector, Anaerobic (material only). Anaerobic Connector. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS087
	Bidder's Product Description: See feature description.		
88	RG-58 BNC Connector, Crimp Type, for CMP Cable	RG-58 BNC Connector, Crimp Type, For CMP cable. Based on Allen-Tel, RG-58 BNC Connector, Crimp Type, For CMP cable, GBNC58-PH or equivalent.	SRIS088
	Bidder's Product Description: See feature description.		
89	RG-62 BNC Connector, Crimp Type, for CMP Cable	RG-62 BNC Connector, Crimp Type, for CMP cable. Based on Allen-Tel, RG-62 BNC Connector, Crimp Type, for CMP cable, GBNC60-PO or equivalent.	SRIS089
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
90	RG-6 F Connector, Compression Type, for CMP Cable	RG-6 F Connector, Compression Type, for CMP cable. Based on Allen-Tel, RG-6 F Connector, Compression Type, for CMP cable, CT746 or equivalent.	SRIS090
	Bidder's Product Description: See feature description.		
91	Fan Out Kit, 6 Strand	Fan Out Kit, 6 Strand. Based on Corning, Fan Out Kit, 6 Strand, FAN-BT25-06 or equivalent.	SRIS091
	Bidder's Product Description: See feature description.		
92	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS092
	Bidder's Product Description: See feature description.		
93	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS093
	Bidder's Product Description: See feature description.		
94	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS094
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
95	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS095
	Bidder's Product Description: See feature description.		
96	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS096
	Bidder's Product Description: See feature description.		
97	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 62.5/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS097
	Bidder's Product Description: See feature description.		
98	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS098
	Bidder's Product Description: See feature description.		
99	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS099
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
100	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS100
	Bidder's Product Description: See feature description.		
101	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS101
	Bidder's Product Description: See feature description.		
102	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS102
	Bidder's Product Description: See feature description.		
103	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable	Multimode 50/125 LC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS103
	Bidder's Product Description: See feature description.		
104	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS104
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
105	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To SC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS105
	Bidder's Product Description: See feature description.		
106	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS106
	Bidder's Product Description: See feature description.		
107	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 SC To LC 3 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS107
	Bidder's Product Description: See feature description.		
108	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 1 Meter Duplex Patch Cable. Duplex Fiber Patch cord.	SRIS108
	Bidder's Product Description: See feature description.		
109	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable	Single Mode 9/125 LC To LC 3 Meter Duplex Patch Cable. Based on Single Mode 9/125 LC To LC 3 Meter Patch Cable or equivalent.	SRIS109
	Bidder's Product Description: See feature description.		
110	SC to Pigtail 50µm Multimode, 1 Meter	SC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS110

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
111	SC to Pigtail 62.5µm Multimode, 1 Meter	SC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS111
	Bidder's Product Description: See feature description.		
112	SC to Pigtail Single Mode, 1 Meter	SC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS112
	Bidder's Product Description: See feature description.		
113	LC to Pigtail 50µm Multimode, 1 Meter	LC to pigtail 50µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS113
	Bidder's Product Description: See feature description.		
114	LC to Pigtail 62.5µm Multimode, 1 Meter	LC to pigtail 62.5µm Multimode, 1 meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS114
	Bidder's Product Description: See feature description.		
115	LC to Pigtail Single Mode, 1 Meter	LC to pigtail Single Mode, 1 Meter (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS115
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
116	SC Compatible 50µm Multimode Connector	SC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS116
	Bidder's Product Description: See feature description.		
117	SC Compatible 62.5µm Multimode Connector	SC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS117
	Bidder's Product Description: See feature description.		
118	SC Compatible Single Mode Connector	SC Compatible Single Mode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS118
	Bidder's Product Description: See feature description.		
119	LC Compatible 50µm Multimode Connector	LC Compatible 50µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS119
	Bidder's Product Description: See feature description.		
120	LC Compatible 62.5µm Multimode Connector	LC Compatible 62.5µm Multimode connector (material only). Based on Unicam; UPC Rated or equivalent. Restrictions: must be ordered in conjunction with terminating and testing.	SRIS120
	Bidder's Product Description: See feature description.		
121	LC Compatible Single Mode Connector	LC Compatible Single Mode connector (material only). Restrictions: must be ordered in conjunction with terminating and testing.	SRIS121

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
122	Fan Out Kit, 12 Strand	Fan Out Kit, 12 Strand. Based on Corning, Fan Out Kit, 12 Strand, FAN-BT25-12 or equivalent.	SRIS122
	Bidder's Product Description: See feature description.		
Backbone and Circuit Extension Termination and/or Testing (labor and consumables only)			
123	Copper Cable Splicing, Termination and Testing Per Pair	Copper cable splicing, termination and testing per pair (25 pair and larger). Based on 710 type copper splicing module or equivalent. As per industry practices splicing modules are used to splice 25 pair and larger.	SRIS123
	Bidder's Product Description: See feature description.		
124	Copper cable Termination Per Pair	Copper cable termination per pair (25 pair and larger). Based on 66 type or 110 type terminations or equivalent.	SRIS124
	Bidder's Product Description: See feature description.		
125	Copper Cable Splicing Per Pair	Copper cable splicing per pair (25 pair and larger). Based on 710 type copper splicing or equivalent.	SRIS125
	Bidder's Product Description: See feature description.		
126	Copper Cable Testing Per Pair	Copper cable testing per pair (25 pair and larger). Based on continuity test only	SRIS126
	Bidder's Product Description: See feature description.		
127	Fiber Splicing, Termination and Testing Per Strand (Both Ends)	Fiber splicing, termination and testing per strand (both ends). Based on standard fusion splicing, per strand (both ends).	SRIS127

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
128	Fiber Termination Per Strand (One End)	Fiber termination per strand (one end). Based on fiber termination per strand (one end).	SRIS128
	Bidder's Product Description: See feature description.		
129	Fiber Splicing Per Strand (One End)	Fiber splicing per strand (one end). Based on standard fusion splicing, per strand (one end).	SRIS129
	Bidder's Product Description: See feature description.		
130	Fiber Testing Per Strand	Fiber testing per strand. Based on power meter testing per strand.	SRIS130
	Bidder's Product Description: See feature description.		
131	4-pair CAT5e Termination and Testing	4-pair CAT5e termination and testing.	SRIS131
	Bidder's Product Description: See feature description.		
132	4-pair Cat 6 Termination and Testing	4-pair Cat 6 termination and testing.	SRIS132
	Bidder's Product Description: See feature description.		
133	4-pair Cat 6 Jacking	4-pair Cat 6 jacking.	SRIS133

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
134	4-pair Cat 6 Termination	4-pair Cat 6 termination	SRIS134
	Bidder's Product Description: See feature description.		
135	4-pair Cat 6 Testing	4-pair Cat 6 testing	SRIS135
	Bidder's Product Description: See feature description.		
136	4-pair Cat 6A Termination and Testing	4-pair Cat 6A termination and testing	SRIS136
	Bidder's Product Description: See feature description.		
137	4-pair Cat 6A Jacking	4-pair Cat 6A jacking	SRIS137
	Bidder's Product Description: See feature description.		
138	4-pair Cat 6A Termination	4-pair Cat 6A termination	SRIS138
	Bidder's Product Description: See feature description.		
139	4-pair Cat 6A Testing	4-pair Cat 6A testing	SRIS139
	Bidder's Product Description: See feature description.		
Station Cabling, Cable Placement and Consumables Onlypull line in place (does not SRIR include pathway or termination hardware)			

	Feature Name	Feature Description	Bidder's Product Identifier
140	Single 4-Pair Cat 6 PVC Cable	Install single 4-pair Cat 6 PVC cable for voice or data application. Based on Commscope, Cat6, CMR, 65N4+ or equivalent.	SRIS140
	Bidder's Product Description: See feature description.		
141	Single 4-Pair Cat 6 Plenum Cable	Install single 4-pair Cat 6 plenum cable for voice or data application. Based on Commscope, Cat6, CMP, 6504+ or equivalent.	SRIS141
	Bidder's Product Description: See feature description.		
142	Single 4-Pair Cat 6 OSP Cable	Install single 4-pair Cat 6 OSP cable for voice or data application. Based on Commscope, Cat6, OSP, 6NF4+ or equivalent.	SRIS142
	Bidder's Product Description: See feature description.		
143	Single 4-Pair Cat 6A PVC Cable	Install single 4-pair Cat 6A PVC cable for voice or data application. Based on Commscope, Cat6A, CMR, 10GN4 or equivalent.	SRIS143
	Bidder's Product Description: See feature description.		
144	Single 4-Pair Cat 6A Plenum Cable	Install single 4-pair Cat 6A plenum cable for voice or data application. Based on Commscope, Cat6A, CMP, 10G4 or equivalent.	SRIS144
	Bidder's Product Description: See feature description.		
145	Single 4-Pair Cat 6A OSP Cable	Install single 4-pair Cat 6A OSP cable for voice or data application. Based on Mohawk, Cat6A, OSP, M59198 or equivalent.	SRIS145
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
146	Single 4-Pair Cat 6 Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6 Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6, Indoor/Outdoor , CMR, M58772 or equivalent.	SRIS146
	Bidder's Product Description: See feature description.		
147	Single 4-Pair Cat 6A Indoor / Outdoor CMR Cable	Install single 4-pair Cat 6A Indoor / Outdoor CMR cable for voice or data application. Based on Mohawk, Cat6A, Indoor/Outdoor , CMR, M59202 or equivalent.	SRIS147
	Bidder's Product Description: See feature description.		
Additional Components (Material and Labor to Install)			
148	24-Port Unloaded Cat 6A Patch Panel	Provide and install one 24-port unloaded Cat 6A Patch Panel. Based on Commscope, 24 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-24 1U or equivalent.	SRIS148
	Bidder's Product Description: See feature description.		
149	48-Port Unloaded Cat 6A Patch Panel	Provide and install one 48-port unloaded Cat 6A Patch Panel. Based on Commscope, 48 Port Cat6A Modular (Jack Type) Panel, Unloaded, M2000-48 2U or equivalent.	SRIS149
	Bidder's Product Description: See feature description.		
150	24-Port Cat 6 Patch Panel	Provide and install new 24-port Cat 6 patch panel. Based on Commscope, 24 Port Cat6 Patch Panel, UNP-U-610-1U-24 or equivalent.	SRIS150
	Bidder's Product Description: See feature description.		
151	48-Port Cat 6 Patch Panel	Provide and install new 48-port Cat 6 patch panel. Based on Commscope, 48 Port Cat6 Patch Panel, UNP-U-610-2U-48 or equivalent.	SRIS151

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
152	24-Port Cat 6A Patch Panel	Provide and install new 24-port Cat 6A patch panel. Based on Commscope, 24 Port Cat6A Patch Panel, UNP-U-10G-1U-24 or equivalent.	SRIS152
	Bidder's Product Description: See feature description.		
153	48-Port Cat 6A Patch Panel	Provide and install new 48-port Cat 6A patch panel. Based on Commscope, 48 Port Cat6A Patch Panel, UNP-U-10G-2U-48 or equivalent.	SRIS153
	Bidder's Product Description: See feature description.		
154	12-Port Cat 6 Patch Panel	Provide and install new 12-port Cat 6 patch panel. Based on Commscope, 12 Port Cat6 Patch Panel, UNP610-WM-12P or equivalent.	SRIS154
	Bidder's Product Description: See feature description.		
155	Face Plate Plastic	Provide and install face plate plastic. Based on Commscope, 4 Port Faceplate, Plastic, M14L or equivalent.	SRIS155
	Bidder's Product Description: See feature description.		
156	Modular Furniture Device Plate	Provide and install modular furniture device plate. Based on Commscope, Modular Furniture Faceplate, M14C or equivalent.	SRIS156
	Bidder's Product Description: See feature description.		
157	4-Port Stainless Steel Faceplate	Provide and install 4-port stainless steel faceplate. Based on Commscope, 4 Port Faceplate, Stainless Steel, M14SP or equivalent.	SRIS157

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
158	6-Port Stainless Steel Faceplate	Provide and install 6-port stainless steel faceplate. Based on Commscope, 6 Port Faceplate, Stainless Steel, M16SP-L or equivalent.	SRIS158
	Bidder's Product Description: See feature description.		
159	Cat 6 Jack Insert	Cat 6 jack insert. Based on Commscope, Cat 6 jack insert, UNJ600 or equivalent.	SRIS159
	Bidder's Product Description: See feature description.		
160	Cat 6A Jack Insert	Cat 6A jack insert. Based on Commscope, Cat 6A jack insert, UNJ10G or equivalent.	SRIS160
	Bidder's Product Description: See feature description.		
161	3' Cat 5e Patch Cord	3' Cat 5e patch cord. Based on Allen-Tel, 3' Cat 5e patch cord, AT1503EV-BU or equivalent.	SRIS161
	Bidder's Product Description: See feature description.		
162	10' Cat 5e Patch Cord	10' Cat 5e patch cord. Based on Allen-Tel, 10' Cat 5e patch cord, AT1510EV-BU or equivalent.	SRIS162
	Bidder's Product Description: See feature description.		
163	3' Cat 6 Patch Cord	3' Cat 6 patch cord. Based on Allen-Tel, 3' Cat 6 patch cord, AT1603-BU or equivalent.	SRIS163
	Bidder's Product Description: See feature description.		
164	10' Cat 6 Patch Cord	10' Cat 6 patch cord. Based on Allen-Tel, 10' Cat 6 patch cord, AT1610-BU or equivalent.	SRIS164

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
165	Velcro Ties	Velcro Ties (roll 25 yards). Based on Velcro USA, Velcro Ties (roll 25 yards), 3/4", non-plenum rated, 189645 or equivalent.	SRIS165
	Bidder's Product Description: See feature description.		
166	6.5" Fiber Splice Closure	Fiber splice closure. Based on Preformed, Fiber splice closure 6.5" x 22", 8006560 or equivalent.	SRIS166
	Bidder's Product Description: See feature description.		
167	Fiber Splice Tray	Fiber splice tray. Based on Preformed, Fiber splice tray, 36 Strand, 80805110 or equivalent.	SRIS167
	Bidder's Product Description: See feature description.		
168	Copper Splice Case 4.0x25	Copper splice case 4.0x25. Based on Preformed, Copper splice case, SS, 4.0" x 25", 8000624 or equivalent.	SRIS168
	Bidder's Product Description: See feature description.		
169	Copper Splice Case 6.5x28	Copper splice case 6.5x28. Based on Preformed, Copper splice case, SS, 6.5" x 28", 8000626 or equivalent.	SRIS169
	Bidder's Product Description: See feature description.		
170	Copper Splice Module 25 Pair (Material Only)	Copper splice module 25 pair (material only). Based on 3M, Copper splice module 25 pair, 710, 3M710-TCL-25 or equivalent. Restrictions: must be ordered in conjunction with copper splicing and testing.	SRIS170

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
171	Standoff Bracket for 66 Block (Material Only)	Standoff Bracket for 66 Block (Material Only). Based on Siemon, Standoff Bracket, S89B or equivalent. Restrictions: must be ordered in conjunction with 66-type Block.	SRIS171
	Bidder's Product Description: See feature description.		
Pathway			
172	Rod & Rope Conduit	Rod & rope conduit. Pull string or rope provided by contractor. Rope will be sized appropriately to cable.	SRIS172
	Bidder's Product Description: See feature description.		
173	Stick (10') of 1" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps	SRIS173
	Bidder's Product Description: See feature description.		
174	Stick (10') of 1 1/4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	SRIS174
	Bidder's Product Description: See feature description.		
175	Stick (10') of 2" EMT Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	SRIS175
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
176	Stick (10') of 1" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	SRIS176
	Bidder's Product Description: See feature description.		
177	Stick (10') of 1 1/4" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	SRIS177
	Bidder's Product Description: See feature description.		
178	Stick (10') of 2" Rigid & Three (3) 2-Hole Straps	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	SRIS178
	Bidder's Product Description: See feature description.		
179	1" EMT Stub	Provide and install one 1" EMT Stub up from device box to above ceiling and straps, connector and bushing. Assumes walls shall be open new construction or surface mount on existing walls; does not include opening or closing of walls.	SRIS179
	Bidder's Product Description: See feature description.		
180	1" 2-Hole Strap, EMT	1" 2-hole strap, EMT	SRIS180
	Bidder's Product Description: See feature description.		
181	1" Bushing, EMT	1" bushing, EMT	SRIS181

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
182	1" Compression Connector, EMT	1" compression connector, EMT	SRIS182
	Bidder's Product Description: See feature description.		
183	1" Compression Coupler, EMT	1" compression coupler, EMT	SRIS183
	Bidder's Product Description: See feature description.		
184	1" Unistrut Clamp, EMT	1" unistrut clamp, EMT	SRIS184
	Bidder's Product Description: See feature description.		
185	2" 2-Hole Strap, EMT	2" 2-hole strap, EMT	SRIS185
	Bidder's Product Description: See feature description.		
186	2" Bushing, EMT	2" bushing, EMT	SRIS186
	Bidder's Product Description: See feature description.		
187	2" Compression Connector, EMT	2" compression connector, EMT	SRIS187
	Bidder's Product Description: See feature description.		
188	2" Compression Coupler, EMT	2" compression coupler, EMT	SRIS188

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
189	2" Unistrut Clamp, EMT	2" unistrut clamp, EMT	SRIS189
	Bidder's Product Description: See feature description.		
190	3" 2-Hole Strap, EMT	3" 2-hole strap, EMT	SRIS190
	Bidder's Product Description: See feature description.		
191	3" Bushing, EMT	3" bushing, EMT	SRIS191
	Bidder's Product Description: See feature description.		
192	3" Compression Connector, EMT	3" compression connector, EMT	SRIS192
	Bidder's Product Description: See feature description.		
193	3" Compression Coupler, EMT	3" compression coupler, EMT	SRIS193
	Bidder's Product Description: See feature description.		
194	3" Unistrut Clamp, EMT	3" unistrut clamp, EMT	SRIS194
	Bidder's Product Description: See feature description.		
195	4" 2-Hole Strap, EMT	4" 2-hole strap, EMT	SRIS195

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
196	4" Bushing, EMT	4" bushing, EMT	SRIS196
	Bidder's Product Description: See feature description.		
197	4" Compression Connector, EMT	4" compression connector, EMT	SRIS197
	Bidder's Product Description: See feature description.		
198	4" Compression Coupler, EMT	4" compression coupler, EMT	SRIS198
	Bidder's Product Description: See feature description.		
199	4" Unistrut Clamp, EMT	4" unistrut clamp, EMT	SRIS199
	Bidder's Product Description: See feature description.		
200	1" 2-Hole Strap, Rigid	1" 2-hole strap, Rigid	SRIS200
	Bidder's Product Description: See feature description.		
201	1" Bushing, Rigid	1" bushing, Rigid	SRIS201
	Bidder's Product Description: See feature description.		
202	1" Compression Connector, Rigid	1" compression connector, Rigid	SRIS202

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
203	1" Compression Coupler, Rigid	1" compression coupler, Rigid	SRIS203
	Bidder's Product Description: See feature description.		
204	1" Unistrut Clamp, Rigid	1" unistrut clamp, Rigid	SRIS204
	Bidder's Product Description: See feature description.		
205	2" 2-Hole Strap, Rigid	2" 2-hole strap, Rigid	SRIS205
	Bidder's Product Description: See feature description.		
206	2" Bushing, Rigid	2" bushing, Rigid	SRIS206
	Bidder's Product Description: See feature description.		
207	2" Compression Connector, Rigid	2" compression connector, Rigid	SRIS207
	Bidder's Product Description: See feature description.		
208	2" Compression Coupler, Rigid	2" compression coupler, Rigid	SRIS208
	Bidder's Product Description: See feature description.		
209	2" Unistrut Clamp, Rigid	2" unistrut clamp, Rigid	SRIS209

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
210	2" J-Hook w/ Multi-Purpose Clip	2" J-Hook w/multipurpose clip	SRIS210
	Bidder's Product Description: See feature description.		
211	Bell Box	Bell box (raco 5387-0)	SRIS211
	Bidder's Product Description: See feature description.		
212	8"x8"x6" Pull Box NEMA 1	8"x8"x6" pull box NEMA 1	SRIS212
	Bidder's Product Description: See feature description.		
213	12"x12"x8" NEMA 1 Junction Box NEMA 1	12"x12"x8" NEMA 1 junction box NEMA 1	SRIS213
	Bidder's Product Description: See feature description.		
214	12"x12"x8" NEMA 1 Junction Box NEMA 3	12"x12"x8" NEMA 1 junction box NEMA 3	SRIS214
	Bidder's Product Description: See feature description.		
215	Install Customer Provided WAP	Install customer provided WAP (Wireless Access Point); (does not include configuration). Assumes customer provided WAP includes installation kit. Installation shall be limited to either drop ceiling or wall mount type installation; no custom installation.	SRIS215

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
216	WAP Enclosure	Provide and install WAP (Wireless Access Point) Enclosure. Based on Oberon, WAP (Wireless Access Point) Enclosure, 1024-00 or equivalent.	SRIS216
	Bidder's Product Description: See feature description.		
217	Install Customer Provided Camera	Install customer provided Camera (does not include configuration). Customer is responsible for location and orientation of cameras. Only for CCTV system, not for public emergency systems.	SRIS217
	Bidder's Product Description: See feature description.		
218	Install Customer Provided Paging Speaker - Drop Tile Ceiling	Install customer provided paging speaker Drop Tile Ceiling. Assumes that customer provided speaker includes drop ceiling installation bracket / hardware.	SRIS218
	Bidder's Product Description: See feature description.		
219	Unistrut Slotted 7/8"	Unistrut slotted 7/8"	SRIS219
	Bidder's Product Description: See feature description.		
220	1" Unistrut Straps	1" unistrut straps	SRIS220
	Bidder's Product Description: See feature description.		
221	2" Unistrut Straps	2" unistrut straps	SRIS221

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
222	1" EMT Sleeve	1" EMT sleeve (core or penetration not included)	SRIS222
	Bidder's Product Description: See feature description.		
223	2" EMT Sleeve	2" EMT sleeve (core or penetration not included)	SRIS223
	Bidder's Product Description: See feature description.		
224	3" EMT Sleeve	3" EMT sleeve (core or penetration not included)	SRIS224
	Bidder's Product Description: See feature description.		
225	4" EMT Sleeve	4" EMT sleeve (core or penetration not included)	SRIS225
	Bidder's Product Description: See feature description.		
226	8"x8"x6" Pull Box NEMA R3	8"x8"x6" pull box NEMA R3	SRIS226
	Bidder's Product Description: See feature description.		
227	18"x18"x8" Pull Box NEMA R3	18"x18"x8" pull box NEMA R3	SRIS227
	Bidder's Product Description: See feature description.		
228	24"x24"x8" Pull Box NEMA R3	24"x24"x8" pull box NEMA R3	SRIS228
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
229	2" Entrance Fitting (Weatherhead)	2" Entrance Fitting (Weatherhead)	SRIS229
	Bidder's Product Description: See feature description.		
230	2" Set Screw Connector, EMT	2" Set Screw Connector, EMT	SRIS230
	Bidder's Product Description: See feature description.		
231	2" Set Screw Coupling, EMT	2" Set Screw Coupling, EMT	SRIS231
	Bidder's Product Description: See feature description.		
232	Stick (10') of 3" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps	SRIS232
	Bidder's Product Description: See feature description.		
233	3" Set Screw Connector, EMT	3" Set Screw Connector, EMT	SRIS233
	Bidder's Product Description: See feature description.		
234	3" Set Screw Coupling, EMT	3" Set Screw Coupling, EMT	SRIS234
	Bidder's Product Description: See feature description.		
235	Stick (10') of 4" EMT & Three (3) 2-Hole Straps	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps	SRIS235

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
236	4" Set Screw Connector, EMT	4" Set Screw Connector, EMT	SRIS236
	Bidder's Product Description: See feature description.		
237	4" Set Screw Coupling, EMT	4" Set Screw Coupling, EMT	SRIS237
	Bidder's Product Description: See feature description.		
238	Unistrut Slotted 1-5/8"	Unistrut slotted 1-5/8"	SRIS238
	Bidder's Product Description: See feature description.		
239	Surface Mount Box	Surface mount box; based on 4S, J-Box or equivalent.	SRIS239
	Bidder's Product Description: See feature description.		
Raceway			
240	LD10 Surface Mount Raceway, 6 Foot Section	Provide and install LD10 Surface Mount Raceway, 6 Foot Section. Based on Panduit, LD10 Surface Mount Raceway, 6 Foot Section, LD10IW6-A or equivalent.	SRIS240
	Bidder's Product Description: See feature description.		
241	LD10 Coupler	Provide and install LD10 Coupler. Based on Panduit, LD10 Coupler, CFX10IW-X or equivalent.	SRIS241
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
242	LD10 Right Angle	Provide and install LD10 Right Angle. Based on Panduit, LD10 Right Angle, RAFC10IW-X or equivalent.	SRIS242
	Bidder's Product Description: See feature description.		
243	LD10 Inside Corner	Provide and install LD10 Inside Corner. Based on Panduit, LD10 Inside Corner, ICFC10IW-X or equivalent.	SRIS243
	Bidder's Product Description: See feature description.		
244	LD10 Outside Corner	Provide and install LD10 Outside Corner. Based on Panduit, LD10 Outside Corner, OCF10IW-X or equivalent.	SRIS244
	Bidder's Product Description: See feature description.		
245	LD10 Tee	Provide and install LD10 Tee. Based on Panduit, LD10 Tee, TFC10IW-X or equivalent.	SRIS245
	Bidder's Product Description: See feature description.		
246	LD10 Drop Ceiling Entrance	Provide and install LD10 Drop Ceiling Entrance. Based on Panduit, LD10 Drop Ceiling Entrance, DCF10IW-X or equivalent.	SRIS246
	Bidder's Product Description: See feature description.		
247	Plastic Single Gang Box, Deep	Provide and install Plastic Single Gang Box, Deep. Based on Panduit, Plastic Single Gang Box, Deep, JB1DIW-A or equivalent.	SRIS247
	Bidder's Product Description: See feature description.		
Other Tasks			

	Feature Name	Feature Description	Bidder's Product Identifier
248	Core Drilling, 1" Hole	Core Drilling, 1" hole	SRIS248
	Bidder's Product Description: See feature description.		
249	Core Drilling, 2" Hole	Core Drilling, 2" hole	SRIS249
	Bidder's Product Description: See feature description.		
250	Core Drilling, 3" Hole	Core Drilling, 3" hole	SRIS250
	Bidder's Product Description: See feature description.		
251	Core Drilling, 4" Hole	Core Drilling, 4" hole	SRIS251
	Bidder's Product Description: See feature description.		
252	Wall Penetration - Drywall	Wall penetration drywall. Includes 1 single gang mud ring only.	SRIS252
	Bidder's Product Description: See feature description.		
253	Scissor Lift Rental (20')	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees). Technician use of lift shall meet CAL OSHA standards.	SRIS253
	Bidder's Product Description: See feature description.		
254	Fire Seal Penetration, 1" Hole	Fire Seal Penetration, 1" hole	SRIS254

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
255	Fire Seal Penetration, 2" Hole	Fire Seal Penetration, 2" hole	SRIS255
	Bidder's Product Description: See feature description.		
256	Fire Seal Penetration, 3" Hole	Fire Seal Penetration, 3" hole	SRIS256
	Bidder's Product Description: See feature description.		
257	Fire Seal Penetration, 4" Hole	Fire Seal Penetration, 4" hole	SRIS257
	Bidder's Product Description: See feature description.		
258	Firestop, Moldable Putty Stick (Material Only)	Firestop, Moldable Putty Stick (Material Only). Restrictions: must be ordered in conjunction with Fire Seal Penetration.	SRIS258
	Bidder's Product Description: See feature description.		
259	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable	Demolish, Remove, Wreck Cabling - Inside Wiring - Per Cable. Salvage value to be forfeited by client.	SRIS259
	Bidder's Product Description: See feature description.		

	Feature Name	Feature Description	Bidder's Product Identifier
260	Demolish, Remove, Wreck Equipment - Ancillaries Component	Demolish, Remove, Wreck Equipment - Ancillaries Component (Ex: Patch panel, Rack, Etc). Does not include removal and disposal of batteries or UPS.	SRIS260
	Bidder's Product Description: See feature description.		
Grounding and Bonding			
261	Relocate Existing Telephone Handset	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation. Includes up to 20' of 1 pair cross-connect wire	SRIS261
	Bidder's Product Description: See feature description.		
262	Install New Cross-Connect	Install new cross-connect. Includes up to 20' of 1 pair cross-connect wire.	SRIS262
	Bidder's Product Description: See feature description.		
263	Locate and Identify Circuit	Locate and Identify circuit - includes tone and tag and document.	SRIS263
	Bidder's Product Description: See feature description.		
264	# 6 AWG Conductor	Provide and install # 6 AWG conductor to existing building electrode system. This is the approved gauge conductor per code; building must have existing ground electrode system to bond to.	SRIS264
	Bidder's Product Description: See feature description.		
265	Busbar (TMGB Busbar)	Provide and install Busbar (TMGB Busbar). This is the approved telecom busbar.	SRIS265

	Feature Name	Feature Description	Bidder's Product Identifier
	Bidder's Product Description: See feature description.		
266	Bonding Conduit - 1/2" EMT	Bonding Conduit - 1/2" EMT. This conduit is required when ground conductor traverses interior of building.	SRIS266
	Bidder's Product Description: See feature description.		
Miscellaneous			
267	Performance Bond Fee	Performance Bond Fee	SRIS269
	Bidder's Product Description: See feature description.		
268	AHJ Permit Fee	AHJ Permit Fee. Passed to customer at cost from AHJ (Authority Having Jurisdiction); no mark up.	SRIS270
	Bidder's Product Description: See feature description.		
269	Permit Handling Fee	Permit Handling Fee. Handling Fee Only	SRIS271
	Bidder's Product Description: See feature description.		

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1.2.9 Service Level Agreements (SLA)

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

1.2.9.1 Service Level Agreement Format

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

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

The Contractor shall proactively apply 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 **X** *No* _____

1.2.9.2 Technical Requirements Versus SLA Objectives

Sections 1.2.2 through 1.2.7 define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

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

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.3 Two Methods of Outage Reporting: Customer or Contractor

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

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

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

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.4 Bidder Response to Service Level Agreements

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

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.5 Contractor SLA Management Plan

Within 90 calendar days of Contract award, the Contractor shall provide CALNET 3 CMO with one (1) 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 (IFB-A Business Requirements SectionA.9.5). The Contractor shall include a sample report in accordance with the SLA Reports (IFB-A Business Requirements Section A.9.5) for the following: SLA Service Performance Report (IFB-A Business Requirements Section A.9.5.1), SLA Provisioning Report (IFB-A Business Requirements Section A.9.5.2), and SLA Catastrophic Outage Reports (IFB-A Business Requirements Section A.9.5.3). The Contractor shall commit to a monthly due date that reports shall be provided to the CALNET 3 CMO via the Private Oversight Website (IFB-A Business Requirements Section A.9.2);
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 3 CMO; 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 3 CMO.

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

1.2.9.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET 3 Technical SLAs (Section 1.2.9.8):

1. With the exception of Provisioning SLA (Section 1.2.9.8.11), 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);
2. If a circuit or service fails to meet one (1) or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET 3 SLAs and remedies for services provided by 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 1.2.9.8.11);
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 3 CMO for possible inclusion via amendments;

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

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.7 Trouble Ticket Stop Clock Conditions

The following conditions shall be allowed to stop the trouble ticket outage duration for CALNET 3 Contractor trouble tickets. The Contractor shall document the trouble ticket outage duration using the Stop Clock Condition (SCC) listed in Table 1.2.9.7 and include start and stop time stamps in the Contractor's Trouble Ticket Reporting

Tool (IFB-A Business Requirements Section A.9.4) for each application of a SCC. The Contractor shall not consider "cleared while testing" or "no trouble found" as a SCC unless cause is ultimately determined to have been the fault of a third party outside the control of the Contractor.

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

Stop Clock Conditions are limited to the conditions listed in Table 1.2.9.7.

Table 1.2.9.7 – Stop Clock Conditions (SCC)

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

#	Stop Clock Condition (SCC)	SCC Definition
7	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following: a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification; c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes reasonable steps to obtain the correct information; and, 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 CPE not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close-out of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET 3 service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Affiliates, and Subcontractors 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 terms and conditions of the PMAC General Provisions - Telecommunications, Section 28 (Force Majeure).

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

1.2.9.8 Technical Service Level Agreements

The Contractor shall provide and manage the following Technical SLAs.

1.2.9.8.1 Availability (M-S)

SLA Name: Availability

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

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

Objective(s) A applies to the following Services:

- Converged VoIP Service (1.2.3.2)
- AT&T Unified Communication (UC) Service
- Converged VoIP Voice Mail Service (1.2.3.5)
- Audio Conferencing (1.2.4)
- SIP Trunk
- AT&T Managed Local Area Network Service (MLAN)
- AT&T Network Based IP VPN Remote Access (ANIRA
- AT&T VPN – Network Based Firewall
- AT&T Managed Router Solution (MRS)
- Applications Traffic Analyzer
- WAN Acceleration Service
- AT&T Telepresence Solution - Hosted

Objective(s) A:

	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
Converged VoIP Service	≥ 98.7%	≥ 99.2%	≥ 99.5%	S
AT&T Unified Communication (UC) Service		≥ 99.2%		S
Converged VoIP Voice Mail Service	≥ 98.9%	≥ 99.2%	≥ 99.5%	S
SIP Trunk	≥ 98.9%	≥ 99.2%	≥ 99.5%	S
AT&T Managed Local Area Network Service (MLAN)		≥ 99.2%		S
AT&T Network Based IP VPN Remote Access (ANIRA		≥ 99.2%		S
AT&T VPN – Network Based Firewall		≥ 99.2%		S

	AT&T Managed Router Solution (MRS)		≥ 99.2%		S
	Applications Traffic Analyzer		≥ 99.2%		S
	WAN Acceleration Service		≥ 99.2%		S
	AT&T Telepresence Solution - Hosted		≥ 99.2%		S

Objective(s) B applies to the following Service(s):

- MPLS (1.2.2) (Includes 1.2.2.8.1 through 1.2.2.8.7)

Objective(s) B:
The objectives will be based on the transport type. The speeds appear in ranges.

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
DS1	≥ 99.2%	≥ 99.5%	≥ 99.8%	S
DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	S
OCx	≥ 99.7%	≥ 99.8%	≥ 99.9%	S
Ethernet	≥ 99.2%	≥ 99.5%	≥ 99.8%	S

Rights and Remedies

Per Occurrence: N/A

Monthly Aggregated Measurements:
First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.

The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC and two (2) Business Days of the ADUC, when usage applies.

Each additional consecutive month the service fails to meet the Committed SLA objective shall result in a 50 percent rebate of the TMRC, and two (2) Business Days of the ADUC, when usage applies.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.8.2 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 (1) or more of the following:

- Failure of two (2) or more service types, or
- Failure of ten (10) access circuits, or
- Failure of 50 or more End-User VoIP service package or VoIP voice mail service (seat)
- Failure of a single MPLS port or access circuit with a transport speed greater than or equal to 200 Mbps

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

Service(s):

Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN)	
VoIP Voice Mail Service (1.2.3.5)	MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA AT&T VPN – Network Based Firewall AT&T Managed Router Solution (MRS) Applications Traffic Analyzer WAN Acceleration Service AT&T Telepresence Solution - Hosted

Objective (s):
The objective restoral time shall be:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MPLS	≤ 3 hours	≤2 hours	≤1 hour	S
VoIP Voice Mail	≤ 3 hours	≤2 hours	≤1 hour	S
Converged VoIP Service	≤ 8 hours	≤2 hours	≤1 hour	S

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

	Monthly Aggregated Measurements: N/A

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

1.2.9.8.3 Catastrophic Outage 2 (CAT 2) (M-S)

<table>
<tr><td colspan="2">SLA Name: Catastrophic Outage 2 (CAT 2)</td></tr>
<tr><td colspan="2">Definition:
• Any service affecting failure in the Contractor's (or subcontractor's or Affiliate's) network up to and including the Provider Edge (PE) equipment.</td></tr>
<tr><td colspan="2">Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer or Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall compile a list for each End-User service affected by 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) basis from information recorded from the network equipment/system or Customer reported trouble ticket. Each End-User service (Circuit ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.</td></tr>
<tr><td colspan="2">Service(s):</td></tr>
<tr><td>MPLS (1.2.2) (includes (1.2.2.8.1 through 1.2.2.8.7)

AT&T Network Based IP VPN Remote Access (ANIRA

AT&T VPN – Network Based Firewall

AT&T Managed Router Solution (MRS)

Applications Traffic Analyzer

WAN Acceleration Service

AT&T Telepresence Solution - Hosted</td><td></td></tr>
<tr><td>Converged VoIP Service (1.2.3.2)

AT&T Unified Communication (UC) Service

AT&T Managed Local Area Network Service (MLAN)</td><td>Audio Conferencing (1.2.4)</td></tr>
<tr><td>VoIP Voice Mail Service (1.2.3.5)</td><td>SIP Trunking (1.2.5)</td></tr>
</table>

Objective (s):
The objective restoral time shall be:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MPLS:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
Converged VoIP Service:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
VoIP Voice Mail Service:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
Audio Conferencing:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
SIP Trunking	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P

Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) Business Days of the ADUC (when applicable) for each End-User service not meeting the committed objective for each CAT 2 fault.
	Monthly Aggregated Measurements: N/A

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

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

SLA Name: Catastrophic Outage 3 (CAT 3)	
Definition: The total loss of more than one (1) CALNET 3 service type in a central office, or the loss of any service type on a system wide basis	
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall open a trouble ticket and compile a list of each End-User service (Circuit ID) affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID) basis from information recorded from the network switches or trouble ticket. Each End-User service (Circuit ID) is deemed out of service from the first notification until the Contractor determines service is restored. Any service reported by End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.	
Service(s):	
MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA AT&T VPN – Network Based Firewall AT&T Managed Router Solution (MRS) Applications Traffic Analyzer WAN Acceleration Service AT&T Telepresence Solution - Hosted	
Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN)	Audio Conferencing (1.2.4)
VoIP Voice Mail Service (1.2.3.5)	SIP Trunking (1.2.5)

Objective (s):
The objective restoral time shall be:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or P)
MPLS	≤ 30 minutes	N/A	≤ 15 minutes	P
Converged VoIP Service	≤ 30 minutes	N/A	≤ 15 minutes	P
VoIP Voice Mail Service	≤ 30 minutes	N/A	≤ 15 minutes	P
Audio Conferencing	≤ 30 minutes	N/A	≤ 15 minutes	P
SIP Trunking	≤ 30 minutes	N/A	≤ 15 minutes	P

Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) Business Days of the ADUC (when applicable) for each End-User service not meeting the committed occurrence objective for each Cat 3 fault.
	Monthly Aggregated Measurements: N/A

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.8.5 Delay - Round Trip Transmission for MPLS Services (M-S)

SLA Name: Delay – Round Trip Transmission for MPLS Services

Definition: the average round trip transfer delay measured from the Customer Edge (CE) to the remote CE back to CE (Site A to Site Z to Site A) within the geographic confines of the state of California.

Measurement Process: The End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Customer suspects the delay is not meeting the committed level. CALNET 3 CMO shall determine the sample interval, provided that a minimum of 100 pings or more shall constitute test. The Contractor shall provide timely verification, consistent with industry standards. Trouble tickets opened as Delay – Round Trip Transmission for MPLS Services shall not count in availability or Time to Repair measurements unless and until the End-User reports service as unusable.

Service(s):

MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA) WAN Acceleration Service AT&T Telepresence Solution - Hosted	

Objective (s): based on a 1,000 byte ping:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (S or P)
MPLS ≥ 128 Kbps to < 1.536 Mbps	N/A	<400ms	<340ms	S
MPLS ≥ 1.536 Mbps to < 40 Mbps	N/A	<120ms	<95ms	S
MPLS ≥ 40 Mbps	N/A	<110ms	<90ms	S

Rights and Remedies	Per Occurrence: N/A
	Monthly Aggregated Measurements: 25 percent of TMRC per occurrence for the reported service. The second consecutive month service fails to meet the committed SLA objectives shall result in a 35 percent rebate of TMRC. Each additional consecutive month service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC.

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

1.2.9.8.6 VoIP Delay, One-Way Transmission (M-S)

SLA Name: VoIP Delay – One-Way Transmission

Definition: Average one-way transfer delay measured from Customer Equipment (CE) to the remote CE

Measurement Process: End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Customer suspects the VoIP delay is not meeting the committed level. The problem requires timely verification, consistent with industry Standards, by the Contractor. Tickets opened as VoIP Delay One-Way Transmission SLA shall not count in availability or Time to Repair measurements unless and until the End-User reports service as unusable.

Service(s):

Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service	

Objective (s):

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
Converged VoIP Service	≤ 170 ms	≤ 130 ms	≤ 90 ms	S

Rights and Remedies

Per Occurrence: N/A

Monthly Aggregated Measurements:
25 percent of TMRC per occurrence for the reported service.

The second month service fails to meet the committed SLA objectives shall result in a 35 percent rebate of TMRC.

Each additional consecutive month service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC.

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

1.2.9.8.7 Excessive Outage (M-S)

SLA Name: Excessive Outage

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

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

Service(s):

MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA AT&T VPN – Network Based Firewall AT&T Managed Router Solution (MRS) Applications Traffic Analyzer WAN Acceleration Service AT&T Telepresence Solution - Hosted	Audio Conferencing (1.2.4)
Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN)	SIP Trunking (1.2.5)
VoIP Voice Mail Service (1.2.3.5)	

Objective (s):

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MPLS	16 hours	12 hours	8 hours	S
Converged VoIP Service	16 hours	12 hours	8 hours	S
VoIP Voice Mail Service	16 hours	12 hours	8 hours	S
Audio Conferencing	16 hours	12 hours	8 hours	S
SIP Trunking	16 hours	12 hours	8 hours	S

Rights and Remedies	Per Occurrence: 100 percent of the TMRC and ten (10) Business Days of the ADUC (when applicable) per occurrence for each service (Circuit ID) out of service for a period greater than the committed objective level. Upon request from the Customer or the CALNET 3 CMO, the Contractor shall provide a briefing on the excessive outage restoration.
	Monthly Aggregated Measurements: N/A

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

1.2.9.8.8 Jitter (M-S)

SLA Name: Jitter

Definition: Variations in transfer delay measured from the Customer Edge (CE) to the remote CE

Measurement Process: End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Jitter exceeds the committed level. The problem requires timely verification, consistent with industry Standards, by the Contractor. Tickets identified as a jitter issue shall not count in availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses. This measurement applies to local loop transport (1) under the control of the Contractor or (2) not under the control of Contractor that do not exceed 70% peak utilization for three (3) consecutive Business Days.

Service(s):

Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service	

Objective (s):

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or S)
Converged VoIP Service	≤ 30ms	≤ 15ms	N/A	S

Rights and Remedies	Per Occurrence: 25 percent of TMRC and two (2) Business Days of the ADUC per occurrence for the reported service. Second month service fails to meet the committed SLA objectives shall result in a 35 percent rebate of TMRC and two (2) Business Days of ADUC. Each additional consecutive month service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC and two (2) Business Days of the ADUC.
	Monthly Aggregated Measurements: N/A

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.8.9 Notification

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

Bidder understands the requirement and shall meet or exceed it? Yes __X__ *No* _____

1.2.9.8.10 Packet Loss (M-S)

SLA Name: Packet Loss

Definition: A measurement of lost or dropped packet traveling across the Contractor's Affiliate's or Subcontractor's) network. Packet loss is measured from Contractor's handoff to the Customer at each end of the data channel measured port to port.

Measurement Process: End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the data loss exceeds the committed level. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a packet loss issue shall not count in availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.

This measurement includes the local loop transport under the control of the Contractor and any local loops acquired from a third party by the Contractor.

Service(s):

MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA WAN Acceleration Service AT&T Telepresence Solution - Hosted	
Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service	

Objective (s):

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MPLS	≤ .75% packet loss	≤ .5% packet loss	≤ .25% packet loss	S
Converged VoIP Service	≤ .75% packet loss	≤ .5% packet loss	≤ .25% packet loss	S

Rights and Remedies

Per Occurrence: 25 percent of TMRC per occurrence for the reported service.

Next consecutive month to fail to meet the committed SLA objectives shall result in a 35 percent rebate of TMRC.

Each additional consecutive month to fail to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC.

Monthly Aggregated Measurements: N/A

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

1.2.9.8.11 Provisioning (M-S)

SLA Name: Provisioning

Definition: Provisioning shall include new services, moves, adds and changes, completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work Scope of Work in accordance with Section A.2.5.4 #7 (Provisioning and Implementation). The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Requests(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Timeline per IFB-
A Business Requirements Section A.6 (Contracted Service Project Work).

Provisioning SLAs have two (2) objectives:

Objective 1: Individual Service Request

Objective 2: Successful Install Monthly Percentage by Service Type

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

Measurement Process:

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

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

Service (Features must be installed in conjunction with the service except when listed below)	Committed Interval Calendar Days	Coordinated/Managed Project
MPLS Port Transport (1.2.2.8.1)	35	Coordinated/Managed Project
MPLS Port and Access Bundle Transport (1.2.2.8.2)	35	Coordinated/Managed Project
MPLS Port, Access and Router Transport (1.2.2.8.3)	45	Coordinated/Managed Project
MPLS Port, Access and Router Bundled On-Net Transport Speeds (1.2.2.8.4)	45	Coordinated/Managed Project
MPLS Port, Access and Router Bundled Off-Net Transport Speeds (1.2.2.8.5)	45	Coordinated/Managed Project
MPLS Port, Access and Router Bundled Ethernet On-Net Transport (1.2.2.8.6)	45	Coordinated/Managed Project
MPLS Port, Access and Router Bundled Ethernet Off-Net Transport (1.2.2.8.7)	45	Coordinated/Managed Project
AT&T Network Based IP VPN Remote Access (ANIRA	45	Coordinated/Managed Project
AT&T VPN – Network Based Firewall	45	Coordinated/Managed Project
AT&T Managed Router Solution (MRS)	45	Coordinated/Managed Project
Applications Traffic Analyzer	45	Coordinated/Managed Project

WAN Acceleration Service	45	Coordinated/Managed Project
AT&T Telepresence Solution - Hosted	45	Coordinated/Managed Project
Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN)	45	Coordinated/Managed Project
VoIP Voice Mail Services (1.2.3.5)	30	Coordinated/Managed Project
Audio Conferencing (1.2.4)	30	Coordinated/Managed Project
SIP Trunking (1.2.5)	35	Coordinated/Managed Project

Objective (s):
Individual Service Requests: Service installed on or before the committed or negotiated due date.
Successful Install Monthly Percentage per Service:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B, S or P)
MPLS Port Transport:	N/A	≥ 90%	≥ 95%	S
MPLS Port and Access Bundle Transport:	N/A	≥ 90%	≥ 95%	S
MPLS Port, Access and Router Transport:	N/A	≥ 90%	≥ 95%	S
Converged VoIP Service: AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN	N/A	≥ 90%	≥ 95%	S
VoIP Voice Mail Service:	N/A	≥ 90%	≥ 95%	S
Audio Conferencing:	N/A	≥ 90%	≥ 95%	S
SIP Trunking	N/A	≥ 90%	≥ 95%	S
MPLS Port, Access and Router Bundled On-Net Transport Speeds	N/A	≥ 90%	≥ 95%	S
MPLS Port, Access and Router Bundled Off-Net Transport Speeds	N/A	≥ 90%	≥ 95%	S
MPLS Port, Access and Router Bundled Ethernet On-Net Transport	N/A	≥ 90%	≥ 95%	S

MPLS Port, Access and Router Bundled Ethernet Off-Net Transport	N/A	≥ 90%	≥ 95%	S
AT&T Network Based IP VPN Remote Access (ANIRA	N/A	≥ 90%	≥ 95%	S
AT&T VPN – Network Based Firewall	N/A	≥ 90%	≥ 95%	S
AT&T Managed Router Solution (MRS)	N/A	≥ 90%	≥ 95%	S
Applications Traffic Analyzer	N/A	≥ 90%	≥ 95%	S
WAN Acceleration Service	N/A	≥ 90%	≥ 95%	S
AT&T Telepresence Solution - Hosted	N/A	≥ 90%	≥ 95%	S

Rights and Remedies	Per Occurrence: Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.
	Monthly Aggregated Measurements: Objective 2: 100 percent of the installation fee credited to Customer for all Service Requests (per same service type) that did not complete on time during the month if the successful install monthly percentage is below the committed objective.

*Bidder understands the requirement and shall meet or exceed it? Yes __**X**__ No _____*

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

SLA Name: Time to Repair (TTR)

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

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

Service(s):

MPLS (1.2.2) (includes 1.2.2.8.1 through 1.2.2.8.7) AT&T Network Based IP VPN Remote Access (ANIRA AT&T VPN – Network Based Firewall AT&T Managed Router Solution (MRS) Applications Traffic Analyzer WAN Acceleration Service AT&T Telepresence Solution - Hosted	
Converged VoIP Service (1.2.3.2) AT&T Unified Communication (UC) Service AT&T Managed Local Area Network Service (MLAN)	Audio Conferencing (1.2.4)
VoIP Voice Mail Service (1.2.3.5)	SIP Trunking (1.3.5)

Objective (s):
The Unavailable Time objective shall not exceed:

Service	Basic (B)	Standard (S)	Premier (P)	Bidders Objective Commitment (B or S)
MPLS:	6 hours	4 hours	N/A	S
Converged VoIP Service:	8 hours	4 hours	N/A	B
VoIP Voice Mail Service:	6 hours	4 hours	N/A	S
Audio Conferencing:	6 hours	4 hours	N/A	S
SIP Trunking	6 hours	4 hours	N/A	S

Rights and Remedies	Per Occurrence: 25 percent of the TMRC three (3) Business Days ADUC, when applicable per occurrence for each service (Circuit ID) out of service for a period greater than the committed objective level.

	Monthly Aggregated Measurements: N/A

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.8.13 Managed Service Proactive Notification (M-S)

SLA Name: Managed Service Proactive Notification	
Definition: The proactive outage notification SLA provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET 3 CMO. An Outage is defined as an unscheduled period in which the managed service interrupted and unavailable for use by Customer for 60 continuous seconds or more than 60 cumulative seconds within a 15-minute period measured by the Contractor.	
Measurement Process: The Outage Duration start shall be determined by the first Contractor network alarm resulting from the outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. The Contractor has fifteen (15) minutes (Notification Period) to open a trouble ticket and notify the Customer from the start point of the first network alarm. The Contractor is in compliance with the proactive outage notification SLA if the Customer opened the trouble ticket prior to the network alarm or Customer is notified by the Contractor within the Notification Period...	
Service(s):	
MPLS Port, Access and Router Bundled Transport Speeds (Section 1.2.2.8.3)	
MPLS Port, Access and Router Bundled On-Net Transport Speeds (Section 1.2.2.8.4)	
MPLS Port, Access and Router Bundled Off-Net Transport Speeds (Section 1.2.2.8.5)	
MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds (Section 1.2.2.8.6)	
MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds (Section 1.2.2.8.6)	
AT&T Managed Router Solution (MRS)	
AT&T Managed Local Area Network Service (MLAN)	
Objective (s): 15 Minutes	
Rights and Remedies	Per Occurrence: Customer will receive a credit equal to ten percent (10%) of the TMRC for each Contractor Managed Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period.
	Monthly Aggregated Measurements: N/A

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

1.2.9.8.14 Excessive Usage of Site Survivability Network Failure Service (M-S)

SLA Name: Excessive Usage of Site Survivability Network Failure Service

Definition: The usage of Site Survivability Network Failure Service shall not exceed the objective commitment identified below in a month, per site.

Measurement Process: The monthly usage duration shall be based on the accumulated total of all service activation events during a given month. A service usage event shall begin from alarm or activation of service and ending when a Site Survivability Network Failure Service resumes to a standby state and no traffic traverses the PSTN on the back-up circuit.

Objective (s) applied to the following Services:

- Converged VoIP Site Survivability Network Failure

Objective(s):

Service	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Converged VoIP Site Survivability Network Failure	240 hours	120 hours	72 hours	S

Rights and Remedies

Per Occurrence: N/A

Monthly Aggregated Measurements:
First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC and two (2) Business Days of the ADUC of all usage charges as a result of the activation of the Site Survivability Network Failure Service.

The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC and five (5) Business Days of ADUC of all usage charges as a result of the activation of Site Survivability Network Failure Service.

Each additional consecutive month the service fails to meet the Committed SLA objective shall result in a 50 percent rebate of the TMRC, and ten (10) Business Days of the ADUC of all usage charges as a result of the activation of Site Survivability Network Failure Service.

Bidder understands the requirement and shall meet or exceed it? Yes __X__ No _____

1.2.9.8.15 Unsolicited Service Enhancement SLAs

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

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

1.2.9.8.16 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined throughout SLA Section 1.2.9 (Availability, Catastrophic Outage, Provisioning etc.) for each unsolicited offering determined by the CALNET 3 CMO not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

1.2.9.8.17 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in this Section 1.2.9.8.

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

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