

INVITATION FOR BID  
IFB C4DNCS19  
Data Networks and Communications Services  
**CATEGORY 20 – MPLS DATA NETWORK**  
NWN Corporation  
Statement of Work  
TECHNICAL REQUIREMENTS  
March 5, 2020  
BAFO  
Issued by:  
STATE OF CALIFORNIA  
California Department of Technology Statewide  
Procurement  
PO Box 1810  
Rancho Cordova, CA 95741

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

## AMENDMENT LOG

Amendment #	Date	Amendment Description
3	11/01/2020	Addendum Changed to Amendment, Deleted items 2 - BAFO; and added Item 2, Am 3 Changes. Updated Table of Contents in its entirety. Table 20.2.10; Updated entire table.
6	4/9/2021	Updated Table 20.2.10 – Unsolicited MPLS Service and Features
10	1/22/2022	Updated Table 20.2.10 – Unsolicited MPLS Service and Features Table.

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## TECHNICAL REQUIREMENTS

### Category 20 – MPLS DATA NETWORK

#### 20.1 OVERVIEW

This Category 20 IFB C4DNCS19 (IFB) provides the State's solicitation for best value solutions for MPLS Data Network Services. This IFB also describes the CALNET technical requirements necessary to support the CALNET program requirements.

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

##### 20.1.1 Bidder Response Requirements

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

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

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

Or,

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

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

**Bidder's Description:**

Or,

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

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

### 20.1.2 Designation of Requirements

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

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

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

### 20.1.3 Pacific Time Zone

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

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

## 20.2 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 below.

### 20.2.1 MPLS Service Functionality

1. Contractors shall provide a private MPLS WAN VPN service for the networking of all voice, video and data applications.

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

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.

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

3. The MPLS WAN VPN service shall support the ability to assign specific application priority over other applications.

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

4. The MPLS WAN VPN service shall provide any-to-any connectivity.

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

5. The MPLS WAN VPN service shall not use the public Internet for transport. Remote access to this solution may use the public Internet.

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

6. The MPLS WAN VPN service shall be a fully Managed Service that includes the Customer edge layer 3 routing device.

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

#### 20.2.2 MPLS WAN VPN Configurations

The Bidder's MPLS WAN VPN service shall support the following configurations:

1. Port only configuration;

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

2. Bundled port and access configuration; and,

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

3. Bundled port, access and Customer edge layer 3 routing device configuration.

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

#### 20.2.3 MPLS Industry Security Standards

1. Upon request by the CALNET CMO, Contractor will provide for viewing at Contractor's facility the security controls in force for the MPLS WAN 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. Where NDAs are not sufficient to allow access to Contractor's facility, the Contractor shall provide independent audit results to the State Information Security Officer.

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

2. If Contractor determines that a breach of data has occurred within the Contractor's MPLS WAN that may involve CALNET Customer data, the

nature and scope of the breach (as it affects Customer data) must be reported to both the Customer and the CALNET CMO within 24 hours of that determination.

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

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

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

4. Contractor shall apply available patches and/or updates which remediate published vulnerabilities in accordance CVSS v3.0 Base Score.

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

5. Contractor shall provide to the CALNET CMO a report upon request detailing all (if any) actual violations of security protections, policies, practices, and/or procedures involving Contractor managed Customer edge devices and what remediation was implemented.

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

#### 20.2.3.1 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 this requirement and shall meet or exceed it? Yes**

#### 20.2.3.2 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.

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

#### 20.2.3.3 Data Breach Reporting



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

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

**20.2.4 MPLS WAN VPN Standards**

Bidders shall confirm that the Contractor's CALNET MPLS WAN VPN services meet all International Engineering Task Force (IETF) Standards and Request for Comments (RFC's).

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

**20.2.5 MPLS Performance Metrics**

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

1. Service availability shall be 99.9% measured port to port.

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

2. MPLS shall have a packet loss of <0.2% measured port to port.

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

3. MPLS shall have jitter <10ms measured port to port.

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

**20.2.6 MPLS Geographic Service Areas**

The Contractor shall provide the service where commercially available through Contractor owned facilities, third-party agreements, and as allowed by State or Federal regulations. Commitment to provide service is subject to facility availability as determined by the Bidder at time of bid submission and may be reassessed by Contractor at time of service order.

Special construction charges that may be required to provide this service are not included in this offering or contained within the CALNET contracts and must be acquired by the customer directly through other procurement means.

**Table 20.2.6 – Bidder's MPLS Service Locations**

Line Item	Service Location – City or ZIP Code	Line Item	Service Location – City or ZIP Code	Line Item	Service Location – City or ZIP Code	Line Item	Service Location – City or ZIP Code	Line Item	Service Location – City or ZIP Code
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1	Los Angeles	141	Chula Vista	281	Fountain Valley	421	Millbrae	561	Winton
2	West Hollywood	142	Imperial Beach	282	Tustin	422	Mountain View	562	Santa Rosa
3	Playa Vista	143	Jamul	283	Anaheim	423	Pacifica	563	Cazadero
4	Bell Gardens	144	La Mesa	284	Brea	424	Redwood City	564	Clearlake
5	Beverly Hills	145	Lemon Grove	285	Fullerton	425	San Bruno	565	Cloverdale
6	Compton	146	National City	286	Garden Grove	426	San Carlos	566	Forestville
7	Culver City	147	Spring Valley	287	Norco	427	South San Francisco	567	Fort Bragg
8	Downey	148	Tecate	288	Orange	428	Sunnyvale	568	Geyserville
9	El Segundo	149	Bonsall	289	Placentia	429	San Francisco	569	Glen Ellen
10	Gardena	150	Cardiff By The Sea	290	Corona	430	Palo Alto	570	Gualala
11	Hawthorne	151	Carlsbad	291	Yorba Linda	431	Stanford	571	Guerneville
12	Hermosa Beach	152	Del Mar	292	Ventura	432	San Mateo	572	Healdsburg
13	Huntington Park	153	El Cajon	293	Camarillo	433	Alameda	573	Kelseyville
14	Lawndale	154	Encinitas	294	Carpinteria	434	American Canyon	574	Kenwood
15	Lynwood	155	Escondido	295	Fillmore	435	Danville	575	Lakeport
16	Malibu	156	Fallbrook	296	Moorpark	436	Alamo	576	Lower Lake
17	Manhattan Beach	157	Julian	297	Oak View	437	Angwin	577	Middletown
18	Maywood	158	La Jolla	298	Ojai	438	Antioch	578	Monte Rio
19	Pacific Palisades	159	Lakeside	299	Oxnard	439	Benicia	579	Occidental
20	Palos Verdes Peninsula	160	Oceanside	300	Piru	440	Brentwood	580	Philo
21	Rancho Palos Verdes	161	Camp Pendleton	301	Port Hueneme	441	Byron	581	Hidden Valley Lake
22	Redondo Beach	162	Pala	302	Santa Paula	442	Calistoga	582	Redwood Valley
23	South Gate	163	Pauma Valley	303	Simi Valley	443	Concord	583	Sebastopol
24	Topanga	164	Poway	304	Brandeis	444	Pleasant Hill	584	Sonoma
25	Venice	165	Ramona	305	Somis	445	Crockett	585	Ukiah
26	Marina Del Rey	166	Rancho Santa Fe	306	Santa Barbara	446	El Cerrito	586	Upper Lake
27	Playa Del Rey	167	San Marcos	307	Goleta	447	Fairfield	587	Willits
28	Inglewood	168	Santa Ysabel	308	Armona	448	Fremont	588	Windsor
29	Santa Monica	169	Santee	309	Arvin	449	Hayward	589	Eureka
30	Torrance	170	Solana Beach	310	Avenal	450	Castro Valley	590	Mckinleyville
31	Whittier	171	Vista	311	Coalinga	451	Hercules	591	Arcata
32	Buena Park	172	Valley Center	312	Corcoran	452	Lafayette	592	Crescent City
33	La Palma	173	San Diego	313	Delano	453	Livermore	593	Fortuna
34	Cypress	174	Coronado	314	Ducor	454	Martinez	594	Garberville
35	La Habra	175	San Ysidro	315	Earlimart	455	Moraga	595	Loleta
36	La Mirada	176	Indio	316	Exeter	456	Napa	596	Redway
37	Montebello	177	Indian Wells	317	Pine Mountain Club	457	Newark	597	Scotia
38	Norwalk	178	Palm Desert	318	Farmersville	458	Oakley	598	Smith River
39	Pico Rivera	179	Banning	319	Frazier Park	459	Orinda	599	Trinidad

40	Santa Fe Springs	180	Beaumont	320	Hanford	460	Pinole	600	Auburn
41	Stanton	181	Blythe	321	Kettleman City	461	Pittsburg	601	West Sacramento
42	Artesia	182	Brawley	322	Lake Isabella	462	Pleasanton	602	Brooks
43	Cerritos	183	Cabazon	323	Lamont	463	Dublin	603	Carmichael
44	Avalon	184	Callexico	324	Lebec	464	Rio Vista	604	Citrus Heights
45	Bellflower	185	Calipatria	325	Lemoore	465	Rodeo	605	Clarksburg
46	Harbor City	186	Cathedral City	326	Lindsay	466	Rutherford	606	Coloma
47	Lakewood	187	Coachella	327	Mc Farland	467	Saint Helena	607	Davis
48	Hawaiian Gardens	188	Desert Hot Springs	328	Porterville	468	Deer Park	608	Diamond Springs
49	Lomita	189	El Centro	329	Richgrove	469	San Leandro	609	Dixon
50	Los Alamitos	190	Heber	330	Shafter	470	San Lorenzo	610	Elk Grove
51	Paramount	191	Holtville	331	Stratford	471	San Ramon	611	Fair Oaks
52	San Pedro	192	Imperial	332	Strathmore	472	Suisun City	612	Folsom
53	Seal Beach	193	Joshua Tree	333	Taft	473	Sunol	613	Galt
54	Sunset Beach	194	La Quinta	334	Three Rivers	474	Union City	614	Garden Valley
55	Wilmington	195	Mecca	335	Tulare	475	Vallejo	615	Georgetown
56	Carson	196	Niland	336	Visalia	476	Walnut Creek	616	Herald
57	Signal Hill	197	North Palm Springs	337	Wasco	477	Yountville	617	Lone
58	Long Beach	198	Palm Springs	338	Woodlake	478	Oakland	618	Jackson
59	Altadena	199	Rancho Mirage	339	Bakersfield	479	Emeryville	619	Lincoln
60	Arcadia	200	Thermal	340	San Luis Obispo	480	Berkeley	620	Loomis
61	Duarte	201	Salton City	341	Los Osos	481	Albany	621	McClellan
62	La Canada Flintridge	202	Thousand Palms	342	Arroyo Grande	482	Richmond	622	Madison
63	Monrovia	203	Twentynine Palms	343	Atascadero	483	El Sobrante	623	Mather
64	Montrose	204	Whitewater	344	Buellton	484	San Pablo	624	Newcastle
65	Sierra Madre	205	Winterhaven	345	Cambria	485	San Rafael	625	North Highlands
66	South Pasadena	206	Yucca Valley	346	Cayucos	486	Greenbrae	626	Roseville
67	Sunland	207	Adelanto	347	Grover Beach	487	Belvedere Tiburon	627	Orangevale
68	Tujunga	208	Apple Valley	348	Guadalupe	488	Corte Madera	628	Placerville
69	Pasadena	209	Baker	349	Lompoc	489	Rohnert Park	629	Pleasant Grove
70	San Marino	210	Barstow	350	Los Alamos	490	Dillon Beach	630	Rancho Cordova
71	Glendale	211	Grand Terrace	351	Los Olivos	491	Cotati	631	Rescue
72	La Crescenta	212	Big Bear Lake	352	Morro Bay	492	Larkspur	632	Rio Linda
73	Agoura Hills	213	Bloomington	353	Nipomo	493	Marshall	633	Rocklin
74	Calabasas	214	Blue Jay	354	Paso Robles	494	Mill Valley	634	Shingle Springs
75	Canoga Park	215	Calimesa	355	Pismo Beach	495	Novato	635	Sloughhouse
76	Winnetka	216	Cedar Glen	356	San Ardo	496	Nicasio	636	Vacaville
77	West Hills	217	Cedarpines Park	357	Santa Margarita	497	Petaluma	637	Wheatland
78	Chatsworth	218	Colton	358	Santa Maria	498	Point Reyes Station	638	Winters

79	Encino	219	Crestline	359	Santa Ynez	499	Ross	639	Woodland
80	Newbury Park	220	Daggett	360	Shandon	500	San Anselmo	640	Camino
81	Newhall	221	Essex	361	Solvang	501	Sausalito	641	Colfax
82	Northridge	222	Fontana	362	Templeton	502	Woodacre	642	Pollock Pines
83	Porter Ranch	223	Hesperia	363	Mojave	503	Alviso	643	Granite Bay
84	Pacoima	224	Highland	364	California City	504	Aptos	644	El Dorado Hills
85	Reseda	225	Lake Arrowhead	365	Acton	505	Boulder Creek	645	Sacramento
86	San Fernando	226	Loma Linda	366	Bishop	506	Campbell	646	Antelope
87	Sylmar	227	Lucerne Valley	367	Boron	507	Capitola	647	Marysville
88	North Hills	228	Lytle Creek	368	Bridgeport	508	Castroville	648	Beale Afb
89	Granada Hills	229	Mentone	369	Edwards	509	Cupertino	649	Alleghany
90	Mission Hills	230	Needles	370	Independence	510	Felton	650	Arbuckle
91	Santa Clarita	231	Nipton	371	Keene	511	Freedom	651	Chico
92	Canyon Country	232	Oro Grande	372	Lancaster	512	Gilroy	652	Colusa
93	Sun Valley	233	Phelan	373	Littlerock	513	Hollister	653	Dunnigan
94	Valencia	234	Redlands	374	Llano	514	Los Gatos	654	Durham
95	Tarzana	235	Rialto	375	Lone Pine	515	Milpitas	655	Grass Valley
96	Thousand Oaks	236	Skyforest	376	Mammoth Lakes	516	Morgan Hill	656	Penn Valley
97	Westlake Village	237	Victorville	377	Palmdale	517	San Juan Bautista	657	Gridley
98	Woodland Hills	238	Yermo	378	Ridgecrest	518	San Martin	658	Live Oak
99	Stevenson Ranch	239	Yucaipa	379	Rosamond	519	Santa Clara	659	Magalia
100	Castaic	240	San Bernardino	380	Tehachapi	520	Santa Cruz	660	Nevada City
101	Van Nuys	241	Riverside	381	Chowchilla	521	Scotts Valley	661	Olivehurst
102	Panorama City	242	March Air Reserve Base	382	Clovis	522	Saratoga	662	Orland
103	Sherman Oaks	243	Lake Elsinore	383	Cutler	523	Soquel	663	Oroville
104	Burbank	244	Aguanga	384	Dinuba	524	Watsonville	664	Paradise
105	North Hollywood	245	Anza	385	Dos Palos	525	San Jose	665	Princeton
106	Studio City	246	Hemet	386	Firebaugh	526	Stockton	666	Quincy
107	Valley Village	247	Moreno Valley	387	Five Points	527	Acampo	667	Sutter
108	Universal City	248	Murrieta	388	Fowler	528	Angels Camp	668	Williams
109	Rancho Cucamonga	249	Nuevo	389	Friant	529	French Camp	669	Willows
110	Azusa	250	Perris	390	Kerman	530	Linden	670	Yuba City
111	Baldwin Park	251	San Jacinto	391	Kingsburg	531	Lodi	671	Redding
112	Chino	252	Menifee	392	Los Banos	532	San Andreas	672	Anderson
113	Chino Hills	253	Sun City	393	Madera	533	Atwater	673	Burney
114	Claremont	254	Temecula	394	Orange Cove	534	Tracy	674	Canby
115	Covina	255	Wildomar	395	Parlier	535	Ceres	675	Corning
116	El Monte	256	Irvine	396	Fresno	536	Crows Landing	676	Fall River Mills
117	South El Monte	257	Foothill Ranch	397	Reedley	537	Delhi	677	Fort Jones
118	Glendora	258	Capistrano Beach	398	Riverdale	538	Escalon	678	Mcarthur

119	La Puente	259	Corona Del Mar	399	Sanger	539	Groveland	679	Mount Shasta
120	Hacienda Heights	260	Costa Mesa	400	Selma	540	Gustine	680	Red Bluff
121	Rowland Heights	261	Dana Point	401	Salinas	541	Hilmar	681	Weaverville
122	La Verne	262	Lake Forest	402	Big Sur	542	Hughson	682	Weed
123	Mira Loma	263	Laguna Woods	403	Carmel	543	Jamestown	683	Yreka
124	Monterey Park	264	Huntington Beach	404	Gonzales	544	Lathrop	684	Alturas
125	Ontario	265	Laguna Beach	405	Greenfield	545	Le Grand	685	Cedarville
126	Montclair	266	Laguna Hills	406	King City	546	Livingston	686	Markleeville
127	Diamond Bar	267	Midway City	407	Marina	547	Manteca	687	Susanville
128	Pomona	268	Aliso Viejo	408	Monterey	548	Mariposa	688	Tahoma
129	Rosemead	269	Newport Coast	409	Pacific Grove	549	Merced	689	Kings Beach
130	San Dimas	270	Newport Beach	410	Pebble Beach	550	Modesto	690	Tahoe City
131	San Gabriel	271	San Clemente	411	Seaside	551	Newman	691	South Lake Tahoe
132	Temple City	272	San Juan Capistrano	412	Soledad	552	Oakdale	692	Truckee
133	Upland	273	Silverado	413	Belmont	553	Patterson		
134	Walnut	274	Laguna Niguel	414	Brisbane	554	Ripon		
135	West Covina	275	Trabuco Canyon	415	Burlingame	555	Riverbank		
136	Alhambra	276	Westminster	416	Daly City	556	Salida		
137	Alpine	277	Rancho Santa Margarita	417	Los Altos	557	Sonora		
138	Bonita	278	Mission Viejo	418	Menlo Park	558	Tuolumne		
139	Boulevard	279	Ladera Ranch	419	Atherton	559	Turlock		
140	Campo	280	Santa Ana	420	Portola Valley	560	Waterford		

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

### 20.2.7 MPLS Network Designs and Diagrams

Bidders shall provide network designs and diagrams for the network and MPLS services.

**Bidders shall provide one electronic copy with their proposal.** Electronic drawings shall be in .dwg, .dxf, .vsd, .pdf or any mutually agreed format. Drawings must identify how the Contractor's network(s) deployed for each service type will address the following:

1. **Redundancy** – Having one 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 soft and hard copy revisions upon CALNET 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;
4. Unique identifier for each element;
5. Circuit type; and,
6. General circuit route

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

#### 20.2.8 MPLS Technical Requirements

Bidder shall confirm that its MPLS solution to be deployed for CALNET DNCS will include the technical features and functionality described below.

1. Contractor shall be able to scale the number of VPNs supported by the network.

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

2. Contractor shall support multiple VPNs per access.

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

3. Contractor shall support multiple VPNs across the MPLS network.

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

4. Contractor shall provide the rapid service restoration practices for all MPLS deployments in accordance with the SLAs in the Technical Service Level Agreements Section.

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

5. Contractor shall provide redundant network circuits in the backbone network.

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

6. Contractor shall provide network diversity to eliminate single points of failure in the backbone network.

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

7. Contractor shall provide a remote access service that allows an out of band access to any Customer site contained within the same VPN. The solution may utilize the public Internet.

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

8. The remote access service shall be secured.

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

9. 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.

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

10. The MPLS WAN VPN service shall be resilient.

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

11. Contractor shall provide support for multiple Layer 2 access protocols.

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

12. Contractor shall provide segregation of Customer traffic in a VPN environment.

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

13. The MPLS WAN VPN service shall support IPv4/v6 capability.

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

14. The Contractor shall provide MPLS port diversity capability within the same MPLS PoP.

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

15. The Contractor shall provide MPLS PoP diversity capability.

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

16. The Contractor shall provide out-of-band backup capability to support routing of traffic outside of the MPLS network in case of MPLS network failure.

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

17. The MPLS WAN VPN service shall support IP Multicasting.

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

18. The MPLS WAN VPN service shall provide Multiple CoS to support the prioritization of Customer applications and traffic flows.

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

19. 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.

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

20. The MPLS WAN VPN service shall support multiple Layer 2 protocols.

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

21. The MPLS WAN VPN service shall support wireless Customer access capability to the MPLS network.

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

22. The Contractor shall provide out-of-band emergency access capability for emergency access to the managed Layer 3 routing device. The solution shall include any data communications equipment as required.

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

23. Bidder shall confirm that its MPLS solution to be deployed for CALNET DNCS will provide fully managed Layer 3 routing device service bundles that include the following:

24. Layer 3 Routing Device Maintenance. Proactively detect, isolate and resolve hardware, software and firmware faults associated with the managed Layer 3 routing device and modem used for access to the managed Layer 3 routing device. The Contractor shall also respond to Customer reported faults. Layer 3 routing device maintenance shall be provided 24x7. If dispatch is required, a Field Service Repair Technician shall arrive within four hours of isolating the fault to the managed Layer 3 routing device. Customer shall be notified of Layer 3 routing device faults and be provided trouble status at one hour intervals.

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

25. Layer 3 Routing Device Monitoring. Proactively detect, isolate and resolve logical faults associated with the managed Layer 3 routing device. Layer 3 routing device monitoring shall be provided 24x7.

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



26. Layer 3 Routing Device Configuration Management. This includes passwords, access lists and configuration changes due to moves, adds, changes and deletes.

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

27. The Contractor shall provide full read only access to the managed Layer 3 routing device.

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

28. Network Monitoring. Proactively detect, isolate and resolve network faults. Network monitoring shall be provided 24x7. Customer shall be notified of network faults and be provided trouble status at one hour intervals.

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

#### 20.2.8.1 Network Operations Center

The Contractor shall maintain a Network Operations Center (NOC) that is staffed 24x7 that coordinates and manages all data traffic.

The Contractor shall be responsible for the following:

1. Fault management (trouble identification, isolation and notification); and,

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

2. Monitoring of Contractor's network performance in near real-time to identify capacity blockages and implement controls to optimize network health and performance immediately.

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

#### 20.2.8.2 Contractor Wi-Fi Hotspot Service Offerings

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

The Contractor shall not provide Contractor branded Wi-Fi hotspot services for non-CALNET users by piggybacking onto CALNET Customer primary installations

or by any other means that utilize publicly funded assets. This restriction includes but is not limited to installation of secondary equipment, circuits, or data channels both land based and wireless.

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

## 20.2.9 MPLS Transport Speeds

Bidder's CALNET MPLS solution shall include transport options to one endpoint for each of the speeds detailed in Tables 20.2.9.1 through 20.2.9.5. The Bidder shall identify the delivery method in the Bidder's Product Description (e.g., Ethernet, T1, etc.) Pricing for each of these speeds shall be provided by the Bidder in the response to the Category Cost Worksheets. Alternative delivery methods that differ from those the Bidder has identified in Tables 20.2.9.1.a, 20.2.9.2.a, and 20.2.9.3.a may be proposed in the corresponding unsolicited tables.

### 20.2.9.1 MPLS Port Transport Speeds

**Table 20.2.9.1.a – MPLS Port Transport Speeds**

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No.
1	MPLS Port Service at 1 Mbps	MPLS Port service at minimum line rate of 1 Mbps		ATS-MSR-MPLS-P1M	Yes
2	MPLS Port service at 3 Mbps	MPLS Port service at minimum line rate of 3 Mbps		ATS-MSR-MPLS-P3M	Yes
3	MPLS Port service at 4 Mbps	MPLS Port service at minimum line rate of 4 Mbps		ATS-MSR-MPLS-P4M	Yes
4	MPLS Port service at 5 Mbps	MPLS Port service at minimum line rate of 5 Mbps		ATS-MSR-MPLS-P5M	Yes

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No.</b>
5	MPLS Port service at 7 Mbps	MPLS Port service at minimum line rate of 7 Mbps		ATS-MSR-MPLS-P7M	<b>Yes</b>
6	MPLS Port service at 9 Mbps	MPLS Port service at minimum line rate of 9 Mbps		ATS-MSR-MPLS-P9M	<b>Yes</b>
7	MPLS Port service at 10 Mbps	MPLS Port service at minimum line rate of 10 Mbps		ATS-MSR-MPLS-P10M	<b>Yes</b>
8	MPLS Port service at 12 Mbps	MPLS Port service at minimum line rate of 12 Mbps		ATS-MSR-MPLS-P12M	<b>Yes</b>
9	MPLS Port service at 15 Mbps	MPLS Port service at minimum line rate of 15 Mbps		ATS-MSR-MPLS-P15M	<b>Yes</b>
10	MPLS Port service at 20 Mbps	MPLS Port service at minimum line rate of 20 Mbps		ATS-MSR-MPLS-P20M	<b>Yes</b>
11	MPLS Port service at 30 Mbps	MPLS Port service at minimum line rate of 30 Mbps		ATS-MSR-MPLS-P30M	<b>Yes</b>
12	MPLS Port service at 40 Mbps	MPLS Port service at minimum line rate of 40 Mbps		ATS-MSR-MPLS-P40M	<b>Yes</b>
13	MPLS Port service at 50 Mbps	MPLS Port service at minimum line rate of 50 Mbps		ATS-MSR-MPLS-P50M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No.</b>
14	MPLS Port service at 60 Mbps	MPLS Port service at minimum line rate of 60 Mbps		ATS-MSR-MPLS-P60M	<b>Yes</b>
15	MPLS Port service at 70 Mbps	MPLS Port service at minimum line rate of 70 Mbps		ATS-MSR-MPLS-P70M	<b>Yes</b>
16	MPLS Port service at 80 Mbps	MPLS Port service at minimum line rate of 80 Mbps		ATS-MSR-MPLS-P80M	<b>Yes</b>
17	MPLS Port service at 90 Mbps	MPLS Port service at minimum line rate of 90 Mbps		ATS-MSR-MPLS-P90M	<b>Yes</b>
18	MPLS Port service at 100 Mbps	MPLS Port service at minimum line rate of 100 Mbps		ATS-MSR-MPLS-P100M	<b>Yes</b>
19	MPLS Port service at 150 Mbps	MPLS Port service at minimum line rate of 150 Mbps		ATS-MSR-MPLS-P150M	<b>Yes</b>
20	MPLS Port service at 200 Mbps	MPLS Port service at minimum line rate of 200 Mbps		ATS-MSR-MPLS-P200M	<b>Yes</b>
21	MPLS Port service at 250 Mbps	MPLS Port service at minimum line rate of 250 Mbps		ATS-MSR-MPLS-P250M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No.</b>
22	MPLS Port service at 300 Mbps	MPLS Port service at minimum line rate of 300 Mbps		ATS-MSR-MPLS-P300M	<b>Yes</b>
23	MPLS Port service at 400 Mbps	MPLS Port service at minimum line rate of 400 Mbps		ATS-MSR-MPLS-P400M	<b>Yes</b>
24	MPLS Port service at 500 Mbps	MPLS Port service at minimum line rate of 500 Mbps		ATS-MSR-MPLS-P500M	<b>Yes</b>
25	MPLS Port service at 600 Mbps	MPLS Port service at minimum line rate of 600 Mbps		ATS-MSR-MPLS-P600M	<b>Yes</b>
26	MPLS Port service at 700 Mbps	MPLS Port service at minimum line rate of 700 Mbps		ATS-MSR-MPLS-P700M	<b>Yes</b>
27	MPLS Port service at 1 Gbps	MPLS Port service at minimum line rate of 1 Gbps		ATS-MSR-MPLS-P1G	<b>Yes</b>
28	MPLS Port service at 2 Gbps	MPLS Port service at minimum line rate of 2 Gbps		ATS-MSR-MPLS-P2G	<b>Yes</b>
29	MPLS Port service at 3 Gbps	MPLS Port service at minimum line rate of 3 Gbps		ATS-MSR-MPLS-P3G	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No.</b>
30	MPLS Port service at 4 Gbps	MPLS Port service at minimum line rate of 4 Gbps		ATS-MSR-MPLS-P4G	<b>Yes</b>
31	MPLS Port service at 5 Gbps	MPLS Port service at minimum line rate of 5 Gbps		ATS-MSR-MPLS-P5G	<b>Yes</b>
32	MPLS Port service at 6 Gbps	MPLS Port service at minimum line rate of 6 Gbps		ATS-MSR-MPLS-P6G	<b>Yes</b>
33	MPLS Port service at 7 Gbps	MPLS Port service at minimum line rate of 7 Gbps		ATS-MSR-MPLS-P7G	<b>Yes</b>
34	MPLS Port service at 8 Gbps	MPLS Port service at minimum line rate of 8 Gbps		ATS-MSR-MPLS-P8G	<b>Yes</b>
35	MPLS Port service at 9 Gbps	MPLS Port service at minimum line rate of 9 Gbps		ATS-MSR-MPLS-P9G	<b>Yes</b>
36	MPLS Port service at 10 Gbps	MPLS Port service at minimum line rate of 10 Gbps		ATS-MSR-MPLS-P10G	<b>Yes</b>

The Contractor may offer additional unsolicited MPLS Port Transport Speeds in Table 20.2.9.1.b.

**Table 20.2.9.1.b – Unsolicited MPLS Port Transport Speeds**

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
1			
2			

20.2.9.2 MPLS Port and Access Bundled Transport Speeds

**Table 20.2.9.2.a – MPLS Port and Access Bundled Transport Speeds**

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
1	MPLS Port and Access service at 1 Mbps	MPLS Port and Access service at minimum line rate of 1 Mbps		ATS-MSR-MPLS-PA1M	<b>Yes</b>
2	MPLS Port and Access service at 3 Mbps	MPLS Port and Access service at minimum line rate of 3 Mbps		ATS-MSR-MPLS-PA3M	<b>Yes</b>
3	MPLS Port and Access service at 4 Mbps	MPLS Port and Access service at minimum line rate of 4 Mbps		ATS-MSR-MPLS-PA4M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
4	MPLS Port and Access service at 5 Mbps	MPLS Port and Access service at minimum line rate of 5 Mbps		ATS-MSR-MPLS-PA5M	<b>Yes</b>
5	MPLS Port and Access service at 7 Mbps	MPLS Port and Access service at minimum line rate of 7 Mbps		ATS-MSR-MPLS-PA7M	<b>Yes</b>
6	MPLS Port and Access service at 9 Mbps	MPLS Port and Access service at minimum line rate of 9 Mbps		ATS-MSR-MPLS-PA9M	<b>Yes</b>
7	MPLS Port and Access service at 10 Mbps	MPLS Port and Access service at minimum line rate of 10 Mbps		ATS-MSR-MPLS-PA10M	<b>Yes</b>
8	MPLS Port and Access service at 12 Mbps	MPLS Port and Access service at minimum line rate of 12 Mbps		ATS-MSR-MPLS-PA12M	<b>Yes</b>



<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
9	MPLS Port and Access service at 15 Mbps	MPLS Port and Access service at minimum line rate of 15 Mbps		ATS-MSR-MPLS-PA15M	<b>Yes</b>
10	MPLS Port and Access service at 20 Mbps	MPLS Port and Access service at minimum line rate of 20 Mbps		ATS-MSR-MPLS-PA20M	<b>Yes</b>
11	MPLS Port and Access service at 30 Mbps	MPLS Port and Access service at minimum line rate of 30 Mbps		ATS-MSR-MPLS-PA30M	<b>Yes</b>
12	MPLS Port and Access service at 40 Mbps	MPLS Port and Access service at minimum line rate of 40 Mbps		ATS-MSR-MPLS-PA40M	<b>Yes</b>
13	MPLS Port and Access service at 50 Mbps	MPLS Port and Access service at minimum line rate of 50 Mbps		ATS-MSR-MPLS-PA50M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
14	MPLS Port and Access service at 60 Mbps	MPLS Port and Access service at minimum line rate of 60 Mbps		ATS-MSR-MPLS-PA60M	Yes
15	MPLS Port and Access service at 70 Mbps	MPLS Port and Access service at minimum line rate of 70 Mbps		ATS-MSR-MPLS-PA70M	Yes
16	MPLS Port and Access service at 80 Mbps	MPLS Port and Access service at minimum line rate of 80 Mbps		ATS-MSR-MPLS-PA80M	Yes
17	MPLS Port and Access service at 90 Mbps	MPLS Port and Access service at minimum line rate of 90 Mbps		ATS-MSR-MPLS-PA90M	Yes
18	MPLS Port and Access service at 100 Mbps	MPLS Port and Access service at minimum line rate of 100 Mbps		ATS-MSR-MPLS-PA100M	Yes

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
19	MPLS Port and Access service at 150 Mbps	MPLS Port and Access service at minimum line rate of 150 Mbps		ATS-MSR-MPLS-PA150M	Yes
20	MPLS Port and Access service at 200 Mbps	MPLS Port and Access service at minimum line rate of 200 Mbps		ATS-MSR-MPLS-PA200M	Yes
21	MPLS Port and Access service at 250 Mbps	MPLS Port and Access service at minimum line rate of 250 Mbps		ATS-MSR-MPLS-PA250M	Yes
22	MPLS Port and Access service at 300 Mbps	MPLS Port and Access service at minimum line rate of 300 Mbps		ATS-MSR-MPLS-PA300M	Yes
23	MPLS Port and Access service at 400 Mbps	MPLS Port and Access service at minimum line rate of 400 Mbps		ATS-MSR-MPLS-PA400M	Yes

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
24	MPLS Port and Access service at 500 Mbps	MPLS Port and Access service at minimum line rate of 500 Mbps		ATS-MSR-MPLS-PA500M	<b>Yes</b>
25	MPLS Port and Access service at 600 Mbps	MPLS Port and Access service at minimum line rate of 600 Mbps		ATS-MSR-MPLS-PA600M	<b>Yes</b>
26	MPLS Port and Access service at 700 Mbps	MPLS Port and Access service at minimum line rate of 700 Mbps		ATS-MSR-MPLS-PA700M	<b>Yes</b>
27	MPLS Port and Access service at 1 Gbps	MPLS Port and Access service at minimum line rate of 1 Gbps		ATS-MSR-MPLS-PA1G	<b>Yes</b>
28	MPLS Port and Access service at 2 Gbps	MPLS Port and Access service at minimum line rate of 2 Gbps		ATS-MSR-MPLS-PA2G	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
29	MPLS Port and Access service at 3 Gbps	MPLS Port and Access service at minimum line rate of 3 Gbps		ATS-MSR-MPLS-PA3G	Yes
30	MPLS Port and Access service at 4 Gbps	MPLS Port and Access service at minimum line rate of 4 Gbps		ATS-MSR-MPLS-PA4G	Yes
31	MPLS Port and Access service at 5 Gbps	MPLS Port and Access service at minimum line rate of 5 Gbps		ATS-MSR-MPLS-PA5G	Yes
32	MPLS Port and Access service at 6 Gbps	MPLS Port and Access service at minimum line rate of 6 Gbps		ATS-MSR-MPLS-PA6G	Yes
33	MPLS Port and Access service at 7 Gbps	MPLS Port and Access service at minimum line rate of 7 Gbps		ATS-MSR-MPLS-PA7G	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
34	MPLS Port and Access service at 8 Gbps	MPLS Port and Access service at minimum line rate of 8 Gbps		ATS-MSR-MPLS-PA8G	Yes
35	MPLS Port and Access service at 9 Gbps	MPLS Port and Access service at minimum line rate of 9 Gbps		ATS-MSR-MPLS-PA9G	Yes
36	MPLS Port and Access service at 10 Gbps	MPLS Port and Access service at minimum line rate of 10 Gbps		ATS-MSR-MPLS-PA10G	Yes

The Contractor may offer additional unsolicited MPLS Port and Access Transport Speeds in Table 20.2.9.2.b.

**Table 20.2.9.2.b – Unsolicited MPLS Port and Access Bundled Transport Speeds**

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

### 20.2.9.3 MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds

**Table 20.2.9.3.a – MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds**

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
1	MPLS port, access and Layer 3 routing device bundled service at 1 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Mbps		ATS-BUN-MPLS-R1M	<b>Yes</b>
2	MPLS port, access and Layer 3 routing device bundled service at 3 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Mbps		ATS-BUN-MPLS-R3M	<b>Yes</b>
3	MPLS port, access and Layer 3 routing device bundled service at 4 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Mbps		ATS-BUN-MPLS-R4M	<b>Yes</b>
4	MPLS port, access and Layer 3 routing device bundled service at 5 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Mbps		ATS-BUN-MPLS-R5M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
5	MPLS port, access and Layer 3 routing device bundled service at 7 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Mbps		ATS-BUN-MPLS-R7M	<b>Yes</b>
6	MPLS port, access and Layer 3 routing device bundled service at 9 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Mbps		ATS-BUN-MPLS-R9M	<b>Yes</b>
7	MPLS port, access and Layer 3 routing device bundled service at 10 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Mbps		ATS-BUN-MPLS-R10M	<b>Yes</b>
8	MPLS port, access and Layer 3 routing device bundled service at 12 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 12 Mbps		ATS-BUN-MPLS-R12M	<b>Yes</b>



<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
9	MPLS port, access and Layer 3 routing device bundled service at 15 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 15 Mbps		ATS-BUN-MPLS-R15M	<b>Yes</b>
10	MPLS port, access and Layer 3 routing device bundled service at 20 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 20 Mbps		ATS-BUN-MPLS-R20M	<b>Yes</b>
11	MPLS port, access and Layer 3 routing device bundled service at 30 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 30 Mbps		ATS-BUN-MPLS-R30M	<b>Yes</b>
12	MPLS port, access and Layer 3 routing device bundled service at 40 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 40 Mbps		ATS-BUN-MPLS-R40M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
13	MPLS port, access and Layer 3 routing device bundled service at 50 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 50 Mbps		ATS-BUN-MPLS-R50M	<b>Yes</b>
14	MPLS port, access and Layer 3 routing device bundled service at 60 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 60 Mbps		ATS-BUN-MPLS-R60M	<b>Yes</b>
15	MPLS port, access and Layer 3 routing device bundled service at 70 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 70 Mbps		ATS-BUN-MPLS-R70M	<b>Yes</b>
16	MPLS port, access and Layer 3 routing device bundled service at 80 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 80 Mbps		ATS-BUN-MPLS-R80M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
17	MPLS port, access and Layer 3 routing device bundled service at 90 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 90 Mbps		ATS-BUN-MPLS-R90M	<b>Yes</b>
18	MPLS port, access and Layer 3 routing device bundled service at 100 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 100 Mbps		ATS-BUN-MPLS-R100M	<b>Yes</b>
19	MPLS port, access and Layer 3 routing device bundled service at 150 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 150 Mbps		ATS-BUN-MPLS-R150M	<b>Yes</b>
20	MPLS port, access and Layer 3 routing device bundled service at 200 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 200 Mbps		ATS-BUN-MPLS-R200M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
21	MPLS port, access and Layer 3 routing device bundled service at 250 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 250 Mbps		ATS-BUN-MPLS-R250M	<b>Yes</b>
22	MPLS port, access and Layer 3 routing device bundled service at 300 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 300 Mbps		ATS-BUN-MPLS-R300M	<b>Yes</b>
23	MPLS port, access and Layer 3 routing device bundled service at 400 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 400 Mbps		ATS-BUN-MPLS-R400M	<b>Yes</b>
24	MPLS port, access and Layer 3 routing device bundled service at 500 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 500 Mbps		ATS-BUN-MPLS-R500M	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
25	MPLS port, access and Layer 3 routing device bundled service at 600 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 600 Mbps		ATS-BUN-MPLS-R600M	<b>Yes</b>
26	MPLS port, access and Layer 3 routing device bundled service at 700 Mbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 700 Mbps		ATS-BUN-MPLS-R700M	<b>Yes</b>
27	MPLS port, access and Layer 3 routing device bundled service at 1 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Gbps		ATS-BUN-MPLS-R1G	<b>Yes</b>
28	MPLS port, access and Layer 3 routing device bundled service at 2 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 2 Gbps		ATS-BUN-MPLS-R2G	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
29	MPLS port, access and Layer 3 routing device bundled service at 3 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Gbps		ATS-BUN-MPLS-R3G	<b>Yes</b>
30	MPLS port, access and Layer 3 routing device bundled service at 4 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Gbps		ATS-BUN-MPLS-R4G	<b>Yes</b>
31	MPLS port, access and Layer 3 routing device bundled service at 5 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Gbps		ATS-BUN-MPLS-R5G	<b>Yes</b>
32	MPLS port, access and Layer 3 routing device bundled service at 6 Gbps	MPLS port, access and Layer 3 routing device bundled service at a minimum line rate of 6 Gbps		ATS-BUN-MPLS-R6G	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
33	MPLS port, access and Layer 3 routing device bundled service at 7 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Gbps		ATS-BUN-MPLS-R7G	<b>Yes</b>
34	MPLS port, access and Layer 3 routing device bundled service at 8 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 8 Gbps		ATS-BUN-MPLS-R8G	<b>Yes</b>
35	MPLS port, access and Layer 3 routing device bundled service at 9 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Gbps		ATS-BUN-MPLS-R9G	<b>Yes</b>
36	MPLS port, access and Layer 3 routing device bundled service at 10 Gbps	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Gbps		ATS-BUN-MPLS-R10G	<b>Yes</b>

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
37	Out-of-band access to the managed layer 3 routing device	Out-of-band emergency access capability for emergency access to the managed layer 3 routing device.		ATS-BUN-MPLS-ROBA	<b>Yes</b>

The Contractor may offer additional unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds in Table 20.2.9.3.b.

**Table 20.2.9.3.b – Unsolicited MPLS Port, Access and Layer 3 Routing Device Bundled Transport Speeds**

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

#### 20.2.9.4 MPLS Backup Options

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

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

#### 20.2.10 Additional Unsolicited MPLS Services and Features

The Bidder may offer additional unsolicited MPLS Services and Features in Table 20.2.10.



**Table 20.2.10 – Unsolicited MPLS Services and Features**

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
Add-On Service to activate port/access gateway for Internet Access within Core MPLS Infrastructure - Procured with MPLS Port & Access or MPLS Bundled Services. Not available as a standalone dedicated internet access service.			
1	Bundled Internet Access - 5Mbps NRC	ATS-MSN-INT-MPLS5M	Not Applicable for Port Only SKU's
2	Bundled Internet Access - 5Mbps MRC	ATS-MSR-INT-MPLS5M	Not Applicable for Port Only SKU's
3	Bundled Internet Access - 10Mbps NRC	ATS-MSN-INT-MPLS10M	Not Applicable for Port Only SKU's
4	Bundled Internet Access - 10Mbps MRC	ATS-MSR-INT-MPLS10M	Not Applicable for Port Only SKU's
5	Bundled Internet Access - 20Mbps NRC	ATS-MSN-INT-MPLS20M	Not Applicable for Port Only SKU's
6	Bundled Internet Access - 20Mbps MRC	ATS-MSR-INT-MPLS20M	Not Applicable for Port Only SKU's
7	Bundled Internet Access - 50Mbps NRC	ATS-MSN-INT-MPLS50M	Not Applicable for Port Only SKU's
8	Bundled Internet Access - 50Mbps MRC	ATS-MSR-INT-MPLS50M	Not Applicable for Port Only SKU's
9	Bundled Internet Access - 100Mbps NRC	ATS-MSN-INT-MPLS100M	Not Applicable for Port Only SKU's
10	Bundled Internet Access - 100Mbps MRC	ATS-MSR-INT-MPLS100M	Not Applicable for Port Only SKU's
11	Bundled Internet Access - 200Mbps NRC	ATS-MSN-INT-MPLS200M	Not Applicable for Port Only SKU's
12	Bundled Internet Access - 200Mbps MRC	ATS-MSR-INT-MPLS200M	Not Applicable for Port Only SKU's
13	Bundled Internet Access - 500Mbps NRC	ATS-MSN-INT-MPLS500M	Not Applicable for Port Only SKU's
14	Bundled Internet Access - 500Mbps MRC	ATS-MSR-INT-MPLS500M	Not Applicable for Port Only SKU's
15	Bundled Internet Access - 1Gbps NRC	ATS-MSN-INT-MPLS1G	Not Applicable for Port Only SKU's
16	Bundled Internet Access - 1Gbps MRC	ATS-MSR-INT-MPLS1G	Not Applicable for Port Only SKU's

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
17	Bundled Internet Access - 2Gbps NRC	ATS-MSN-INT-MPLS2G	Not Applicable for Port Only SKU's
18	Bundled Internet Access - 2Gbps MRC	ATS-MSR-INT-MPLS2G	Not Applicable for Port Only SKU's
19	Bundled Internet Access - 5Gbps NRC	ATS-MSN-INT-MPLS5G	Not Applicable for Port Only SKU's
20	Bundled Internet Access - 5Gbps MRC	ATS-MSR-INT-MPLS5G	Not Applicable for Port Only SKU's
21	Bundled Internet Access - 10Gbps NRC	ATS-MSN-INT-MPLS10G	Not Applicable for Port Only SKU's
22	Bundled Internet Access - 10Gbps MRC	ATS-MSR-INT-MPLS10G	Not Applicable for Port Only SKU's
23	NWN Provided Provisioning Services	ATS-PRO-CIR-DIA	Add-On Service to activate port/access gateway for Internet Access within Core MPLS Infrastructure - Procured with MPLS Port & Access or MPLS Bundled Services. Not available as a standalone dedicated internet access service.
24	Port Change Request for Circuit	ATS-MSN-CIR-PCR	
25	Port Expedite Request	ATS-MSN-CIR-PEXP	
26	One Static IP address	ATS-AAS-IPA-1S	NWN Support Services
27	Five Static IP addresses	ATS-AAS-IPA-5S	NWN Support Services
28	Twenty-nine Static IP addresses	ATS-AAS-IPA-29S	NWN Support Services
29	Mobile Connection 10M	ATS-AAS-MC-10M	NWN Support Services
30	Mobile Connection 20M	ATS-AAS-MC-20M	NWN Support Services
31	Mobile Connection 50M	ATS-AAS-MC-50M	NWN Support Services
32	Mobile Connection 100M	ATS-AAS-MC-100M	NWN Support Services

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
33	Mobile Connection 250M	ATS-AAS-MC-250M	NWN Support Services
34	Mobile Connection 500M	ATS-AAS-MC-500M	NWN Support Services
35	Setup for Mobile Connection	ATS-PRO-MC	NWN Support Services
36	MPLS port, access and Layer 3 routing device bundled service at 1 Mbps (NRC)	ATS-AAS-MPLS-R1N	Unbundled Mandatory Service for ATS-BUN-MPLS-R1M - Only available when purchased with Bundled Service ATS-MSN-MPLS-R1M
37	MPLS port, access and Layer 3 routing device bundled service at 1 Mbps (MRC)	ATS-MSN-MPLS-R1M	Unbundled Mandatory Service for ATS-BUN-MPLS-R1M - Only available when purchased with Bundled Service ATS-AAS-MPLS-R1N
38	MPLS port, access and Layer 3 routing device bundled service at 3 Mbps (NRC)	ATS-AAS-MPLS-R3N	Unbundled Mandatory Service for ATS-BUN-MPLS-R3M - Only available when purchased with Bundled Service ATS-MSN-MPLS-R3M
39	MPLS port, access and Layer 3 routing device bundled service at 3 Mbps (MRC)	ATS-MSN-MPLS-R3M	Unbundled Mandatory Service for ATS-BUN-MPLS-R3M - Only available when purchased with Bundled Service ATS-AAS-MPLS-R3N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
40	MPLS port, access and Layer 3 routing device bundled service at 4 Mbps (NRC)	ATS-AAS-MPLS-R4N	Unbundled Mandatory Service for ATS-BUN-MPLS-R4M - Only available with Bundled Service for ATS-MSN-MPLS-R4M
41	MPLS port, access and Layer 3 routing device bundled service at 4 Mbps (MRC)	ATS-MSN-MPLS-R4M	Unbundled Mandatory Service for ATS-BUN-MPLS-R4M - Only available with Bundled Service for ATS-AAS-MPLS-R4N
42	MPLS port, access and Layer 3 routing device bundled service at 5 Mbps (NRC)	ATS-AAS-MPLS-R5N	Unbundled Mandatory Service for ATS-BUN-MPLS-R5M - Only available with Bundled Service for ATS-MSN-MPLS-R5M
43	MPLS port, access and Layer 3 routing device bundled service at 5 Mbps (MRC)	ATS-MSN-MPLS-R5M	Unbundled Mandatory Service for ATS-BUN-MPLS-R5M - Only available with Bundled Service for ATS-AAS-MPLS-R5N
44	MPLS port, access and Layer 3 routing device bundled service at 7 Mbps (NRC)	ATS-AAS-MPLS-R7N	Unbundled Mandatory Service for ATS-BUN-MPLS-R7M - Only available with Bundled Service for ATS-MSN-MPLS-R7M
45	MPLS port, access and Layer 3 routing device bundled service at 7 Mbps (MRC)	ATS-MSN-MPLS-R7M	Unbundled Mandatory Service for ATS-BUN-MPLS-R7M - Only available with Bundled Service for ATS-AAS-MPLS-R7N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
46	MPLS port, access and Layer 3 routing device bundled service at 9 Mbps (NRC)	ATS-AAS-MPLS-R9N	Unbundled Mandatory Service for ATS-BUN-MPLS-R9M - Only available with Bundled Service for ATS-MSN-MPLS-R9M
47	MPLS port, access and Layer 3 routing device bundled service at 9 Mbps (MRC)	ATS-MSN-MPLS-R9M	Unbundled Mandatory Service for ATS-BUN-MPLS-R9M - Only available with Bundled Service for ATS-AAS-MPLS-R9N
48	MPLS port, access and Layer 3 routing device bundled service at 10 Mbps (NRC)	ATS-AAS-MPLS-R10N	Unbundled Mandatory Service for ATS-BUN-MPLS-R10M - Only available with Bundled Service for ATS-MSN-MPLS-R10M
49	MPLS port, access and Layer 3 routing device bundled service at 10 Mbps (MRC)	ATS-MSN-MPLS-R10M	Unbundled Mandatory Service for ATS-BUN-MPLS-R10M - Only available with Bundled Service for ATS-AAS-MPLS-R10N
50	MPLS port, access and Layer 3 routing device bundled service at 12 Mbps (NRC)	ATS-AAS-MPLS-R12N	Unbundled Mandatory Service for ATS-BUN-MPLS-R12M - Only available with Bundled Service for ATS-MSN-MPLS-R12M
51	MPLS port, access and Layer 3 routing device bundled service at 12 Mbps (MRC)	ATS-MSN-MPLS-R12M	Unbundled Mandatory Service for ATS-BUN-MPLS-R12M - Only available with Bundled Service for ATS-AAS-MPLS-R12N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
52	MPLS port, access and Layer 3 routing device bundled service at 15 Mbps (NRC)	ATS-AAS-MPLS-R15N	Unbundled Mandatory Service for ATS-BUN-MPLS-R15M - Only available with Bundled Service for ATS-MSN-MPLS-R15M
53	MPLS port, access and Layer 3 routing device bundled service at 15 Mbps (MRC)	ATS-MSN-MPLS-R15M	Unbundled Mandatory Service for ATS-BUN-MPLS-R15M - Only available with Bundled Service for ATS-AAS-MPLS-R15N
54	MPLS port, access and Layer 3 routing device bundled service at 20 Mbps (NRC)	ATS-AAS-MPLS-R20N	Unbundled Mandatory Service for ATS-BUN-MPLS-R20M - Only available with Bundled Service for ATS-MSN-MPLS-R20M
55	MPLS port, access and Layer 3 routing device bundled service at 20 Mbps (MRC)	ATS-MSN-MPLS-R20M	Unbundled Mandatory Service for ATS-BUN-MPLS-R20M - Only available with Bundled Service for ATS-AAS-MPLS-R20N
56	MPLS port, access and Layer 3 routing device bundled service at 30 Mbps (NRC)	ATS-AAS-MPLS-R30N	Unbundled Mandatory Service for ATS-BUN-MPLS-R30M - Only available with Bundled Service for ATS-MSN-MPLS-R30M
57	MPLS port, access and Layer 3 routing device bundled service at 30 Mbps (MRC)	ATS-MSN-MPLS-R30M	Unbundled Mandatory Service for ATS-BUN-MPLS-R30M - Only available with Bundled Service for ATS-AAS-MPLS-R30N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
58	MPLS port, access and Layer 3 routing device bundled service at 40 Mbps (NRC)	ATS-AAS-MPLS-R40N	Unbundled Mandatory Service for ATS-BUN-MPLS-R40M - Only available with Bundled Service for ATS-MSN-MPLS-R40M
59	MPLS port, access and Layer 3 routing device bundled service at 40 Mbps (MRC)	ATS-MSN-MPLS-R40M	Unbundled Mandatory Service for ATS-BUN-MPLS-R40M - Only available with Bundled Service for ATS-AAS-MPLS-R40N
60	MPLS port, access and Layer 3 routing device bundled service at 50 Mbps (NRC)	ATS-AAS-MPLS-R50N	Unbundled Mandatory Service for ATS-BUN-MPLS-R50M - Only available with Bundled Service for ATS-MSN-MPLS-R50M
61	MPLS port, access and Layer 3 routing device bundled service at 50 Mbps (MRC)	ATS-MSN-MPLS-R50M	Unbundled Mandatory Service for ATS-BUN-MPLS-R50M - Only available with Bundled Service for ATS-AAS-MPLS-R50N
62	MPLS port, access and Layer 3 routing device bundled service at 60 Mbps (NRC)	ATS-AAS-MPLS-R60N	Unbundled Mandatory Service for ATS-BUN-MPLS-R60M - Only available with Bundled Service for ATS-MSN-MPLS-R60M
63	MPLS port, access and Layer 3 routing device bundled service at 60 Mbps (MRC)	ATS-MSN-MPLS-R60M	Unbundled Mandatory Service for ATS-BUN-MPLS-R60M - Only available with Bundled Service for ATS-AAS-MPLS-R60N



<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
64	MPLS port, access and Layer 3 routing device bundled service at 70 Mbps (NRC)	ATS-AAS-MPLS-R70N	Unbundled Mandatory Service for ATS-BUN-MPLS-R70M - Only available with Bundled Service for ATS-MSN-MPLS-R70M
65	MPLS port, access and Layer 3 routing device bundled service at 70 Mbps (MRC)	ATS-MSN-MPLS-R70M	Unbundled Mandatory Service for ATS-BUN-MPLS-R70M - Only available with Bundled Service for ATS-AAS-MPLS-R70N
66	MPLS port, access and Layer 3 routing device bundled service at 80 Mbps (NRC)	ATS-AAS-MPLS-R80N	Unbundled Mandatory Service for ATS-BUN-MPLS-R80M - Only available with Bundled Service for ATS-MSN-MPLS-R80M
67	MPLS port, access and Layer 3 routing device bundled service at 80 Mbps (MRC)	ATS-MSN-MPLS-R80M	Unbundled Mandatory Service for ATS-BUN-MPLS-R80M - Only available with Bundled Service for ATS-AAS-MPLS-R80N
68	MPLS port, access and Layer 3 routing device bundled service at 90 Mbps (NRC)	ATS-AAS-MPLS-R90N	Unbundled Mandatory Service for ATS-BUN-MPLS-R90M - Only available with Bundled Service for ATS-MSN-MPLS-R90M
69	MPLS port, access and Layer 3 routing device bundled service at 90 Mbps (MRC)	ATS-MSN-MPLS-R90M	Unbundled Mandatory Service for ATS-BUN-MPLS-R90M - Only available with Bundled Service for ATS-AAS-MPLS-R90N



<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
70	MPLS port, access and Layer 3 routing device bundled service at 100 Mbps (NRC)	ATS-AAS-MPLS-R100N	Unbundled Mandatory Service for ATS-BUN-MPLS-R100M - Only available with Bundled Service for ATS-MSN-MPLS-100M
71	MPLS port, access and Layer 3 routing device bundled service at 100 Mbps (MRC)	ATS-MSN-MPLS-100M	Unbundled Mandatory Service for ATS-BUN-MPLS-R100M - Only available with Bundled Service for ATS-AAS-MPLS-100N
72	MPLS port, access and Layer 3 routing device bundled service at 150 Mbps (NRC)	ATS-AAS-MPLS-R150N	Unbundled Mandatory Service for ATS-BUN-MPLS-R150M - Only available with Bundled Service for ATS-MSN-MPLS-150M
73	MPLS port, access and Layer 3 routing device bundled service at 150 Mbps (MRC)	ATS-MSN-MPLS-150M	Unbundled Mandatory Service for ATS-BUN-MPLS-R150M - Only available with Bundled Service for ATS-AAS-MPLS-150N
74	MPLS port, access and Layer 3 routing device bundled service at 200 Mbps (NRC)	ATS-AAS-MPLS-R200N	Unbundled Mandatory Service for ATS-BUN-MPLS-R200M - Only available with Bundled Service for ATS-MSN-MPLS-200M
75	MPLS port, access and Layer 3 routing device bundled service at 200 Mbps (MRC)	ATS-MSN-MPLS-200M	Unbundled Mandatory Service for ATS-BUN-MPLS-R200M - Only available with Bundled Service for ATS-AAS-MPLS-200N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
76	MPLS port, access and Layer 3 routing device bundled service at 250 Mbps (NRC)	ATS-AAS-MPLS-R250N	Unbundled Mandatory Service for ATS-BUN-MPLS-R250M - Only available with Bundled Service for ATS-MSN-MPLS-R250M
77	MPLS port, access and Layer 3 routing device bundled service at 250 Mbps (MRC)	ATS-MSN-MPLS-R250M	Unbundled Mandatory Service for ATS-BUN-MPLS-R250M - Only available with Bundled Service for ATS-AAS-MPLS-R250N
78	MPLS port, access and Layer 3 routing device bundled service at 300 Mbps (NRC)	ATS-AAS-MPLS-R300N	Unbundled Mandatory Service for ATS-BUN-MPLS-R300M - Only available with Bundled Service for ATS-MSN-MPLS-300M
79	MPLS port, access and Layer 3 routing device bundled service at 300 Mbps (MRC)	ATS-MSN-MPLS-300M	Unbundled Mandatory Service for ATS-BUN-MPLS-R300M - Only available with Bundled Service for ATS-AAS-MPLS-300N
80	MPLS port, access and Layer 3 routing device bundled service at 400 Mbps (NRC)	ATS-AAS-MPLS-R400N	Unbundled Mandatory Service for ATS-BUN-MPLS-R400M - Only available with Bundled Service for ATS-MSN-MPLS-400M
81	MPLS port, access and Layer 3 routing device bundled service at 400 Mbps (MRC)	ATS-MSN-MPLS-400M	Unbundled Mandatory Service for ATS-BUN-MPLS-R400M - Only available with Bundled Service for ATS-AAS-MPLS-400N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
82	MPLS port, access and Layer 3 routing device bundled service at 500 Mbps (NRC)	ATS-AAS-MPLS-R500N	Unbundled Mandatory Service for ATS-BUN-MPLS-R500M - Only available with Bundled Service for ATS-MSN-MPLS-500M
83	MPLS port, access and Layer 3 routing device bundled service at 500 Mbps (MRC)	ATS-MSN-MPLS-500M	Unbundled Mandatory Service for ATS-BUN-MPLS-R500M - Only available with Bundled Service for ATS-AAS-MPLS-500N
84	MPLS port, access and Layer 3 routing device bundled service at 600 Mbps (NRC)	ATS-AAS-MPLS-R600N	Unbundled Mandatory Service for ATS-BUN-MPLS-R600M - Only available with Bundled Service for ATS-MSN-MPLS-600M
85	MPLS port, access and Layer 3 routing device bundled service at 600 Mbps (MRC)	ATS-MSN-MPLS-600M	Unbundled Mandatory Service for ATS-BUN-MPLS-R600M - Only available with Bundled Service for ATS-AAS-MPLS-600N
86	MPLS port, access and Layer 3 routing device bundled service at 700 Mbps (NRC)	ATS-AAS-MPLS-R700N	Unbundled Mandatory Service for ATS-BUN-MPLS-R700M - Only available with Bundled Service for ATS-MSN-MPLS-700M
87	MPLS port, access and Layer 3 routing device bundled service at 700 Mbps (MRC)	ATS-MSN-MPLS-700M	Unbundled Mandatory Service for ATS-BUN-MPLS-R700M - Only available with Bundled Service for ATS-AAS-MPLS-700N

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
88	MPLS port, access and Layer 3 routing device bundled service at 1 Gbps (NRC)	ATS-AAS-MPLS-R1GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R1G - Only available with Bundled Service for ATS-MSN-MPLS-R1GM
89	MPLS port, access and Layer 3 routing device bundled service at 1 Gbps (MRC)	ATS-MSN-MPLS-R1GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R1G - Only available with Bundled Service for ATS-AAS-MPLS-R1GN
90	MPLS port, access and Layer 3 routing device bundled service at 2 Gbps (NRC)	ATS-AAS-MPLS-R2GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R2G - Only available with Bundled Service for ATS-MSN-MPLS-R2GM
91	MPLS port, access and Layer 3 routing device bundled service at 2 Gbps (MRC)	ATS-MSN-MPLS-R2GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R2G - Only available with Bundled Service for ATS-AAS-MPLS-R2GN
92	MPLS port, access and Layer 3 routing device bundled service at 3 Gbps (NRC)	ATS-AAS-MPLS-R3GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R3G - Only available with Bundled Service for ATS-MSN-MPLS-R3GM
93	MPLS port, access and Layer 3 routing device bundled service at 3 Gbps (MRC)	ATS-MSN-MPLS-R3GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R3G - Only available with Bundled Service for ATS-AAS-MPLS-R3GN

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
94	MPLS port, access and Layer 3 routing device bundled service at 4 Gbps (NRC)	ATS-AAS-MPLS-R4GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R4G - Only available with Bundled Service for ATS-MSN-MPLS-R4GM
95	MPLS port, access and Layer 3 routing device bundled service at 4 Gbps (MRC)	ATS-MSN-MPLS-R4GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R4G - Only available with Bundled Service for ATS-AAS-MPLS-R4GN
96	MPLS port, access and Layer 3 routing device bundled service at 5 Gbps (NRC)	ATS-AAS-MPLS-R5GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R5G - Only available with Bundled Service for ATS-MSN-MPLS-R5GM
97	MPLS port, access and Layer 3 routing device bundled service at 5 Gbps (MRC)	ATS-MSN-MPLS-R5GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R5G - Only available with Bundled Service for ATS-AAS-MPLS-R5GN
98	MPLS port, access and Layer 3 routing device bundled service at 6 Gbps (NRC)	ATS-AAS-MPLS-R6GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R6G - Only available with Bundled Service for ATS-MSN-MPLS-R6GM
99	MPLS port, access and Layer 3 routing device bundled service at 6 Gbps (MRC)	ATS-MSN-MPLS-R6GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R6G - Only available with Bundled Service for ATS-AAS-MPLS-R6GN

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
100	MPLS port, access and Layer 3 routing device bundled service at 7 Gbps (NRC)	ATS-AAS-MPLS-R7GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R7G - Only available with Bundled Service for ATS-MSN-MPLS-R7GM
101	MPLS port, access and Layer 3 routing device bundled service at 7 Gbps (MRC)	ATS-MSN-MPLS-R7GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R7G - Only available with Bundled Service for ATS-AAS-MPLS-R7GN
102	MPLS port, access and Layer 3 routing device bundled service at 8 Gbps (NRC)	ATS-AAS-MPLS-R8GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R8G - Only available with Bundled Service for ATS-MSN-MPLS-R8GM
103	MPLS port, access and Layer 3 routing device bundled service at 8 Gbps (MRC)	ATS-MSN-MPLS-R8GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R8G - Only available with Bundled Service for ATS-AAS-MPLS-R8GN
104	MPLS port, access and Layer 3 routing device bundled service at 9 Gbps (NRC)	ATS-AAS-MPLS-R9GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R9G - Only available with Bundled Service for ATS-MSN-MPLS-R9GM
105	MPLS port, access and Layer 3 routing device bundled service at 9 Gbps (MRC)	ATS-MSN-MPLS-R9GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R9G - Only available with Bundled Service for ATS-AAS-MPLS-R9GN

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
106	MPLS port, access and Layer 3 routing device bundled service at 10 Gbps (NRC)	ATS-AAS-MPLS-R10GN	Unbundled Mandatory Service for ATS-BUN-MPLS-R10G - Only available with Bundled Service for ATS-MSN-MPLS-R10GM
107	MPLS port, access and Layer 3 routing device bundled service at 10 Gbps (MRC)	ATS-MSN-MPLS-R10GM	Unbundled Mandatory Service for ATS-BUN-MPLS-R10G - Only available with Bundled Service for ATS-AAS-MPLS-R10GN
108	Out-of-band access to the managed layer 3 routing device (NRC)	ATS-AAS-MPLS-ROBAN	Unbundled Mandatory Service for ATS-BUN-MPLS-ROBA - Only available with Bundled Service for ATS-MSN-MPLS-ROBAM
109	Out-of-band access to the managed layer 3 routing device (MRC)	ATS-MSN-MPLS-ROBAM	Unbundled Mandatory Service for ATS-BUN-MPLS-ROBA - Only available with Bundled Service for ATS-AAS-MPLS-ROBAN
110	Managed WLAN-WAP 802.11AC-NWN-Provided	NWNCA-WLAN11AC	Fully Managed WLAN Service that includes design and implementation of WLAN equipment plus includes: remote, proactive 24x7 monitoring of equipment; management of PoE equipment including health checks, incident

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			assessment & resolution;; coordination of equipment vendor support response; and scheduled maintenance & monthly analysis reports Fully Managed WLAN Service that includes design and implementation of WLAN equipment plus includes: remote, proactive 24x7 monitoring of equipment; management of PoE equipment including health checks, incident assessment & resolution;; coordination of equipment vendor support response; and scheduled maintenance & monthly analysis reports.
111	Managed WLAN-WAP 802.11N-NWN-Provided	NWNCA-WLAN11N	Fully Managed WLAN Service that includes design and implementation of WLAN equipment plus includes: remote,



Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			proactive 24x7 monitoring of equipment; management of PoE equipment including health checks, incident assessment & resolution;; coordination of equipment vendor support response; and scheduled maintenance & monthly analysis reports.
112	Managed WLAN-Wireless Controller-NWN-Provided	NWNCA-WLANCTR	Fully Managed WLAN Service that includes design and implementation of WLAN equipment plus includes: remote, proactive 24x7 monitoring of equipment; management of PoE equipment including health checks, incident assessment & resolution;; coordination of equipment vendor support response; and scheduled maintenance & monthly analysis

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
			reports.
113	Remote Proactive Monitoring LAN Infrastructure Services - Customer Owned Equipment/Managed Take-Over	NWNCA-PoEMON	MLAN or WLAN Monitoring Services includes remote, proactive 24x7 monitoring of equipment; management of PoE equipment including health checks, incident assessment & resolution;; coordination of equipment vendor support response; and scheduled maintenance & monthly performance and health analysis reports.
114	NWN Fully Managed LAN-Implementation Services for Customer Owned Equipment (1-50 sites)	NWNCA-LANIMPL1	Technical Services for configuration and installation of Customer Owned LAN equipment.
115	NWN Fully Managed LAN-Implementation Services for Customer Owned Equipment (51-250 sites)	NWNCA-LANIMPL2	Technical Services for configuration and installation of Customer Owned LAN equipment.

<b>Line Item</b>	<b>Feature Name</b>	<b>Bidder's Product Identifier</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>
116	NWN Fully Managed LAN-Implementation Services for Customer Owned Equipment (251-500 sites)	NWNCA-LANIMPL3	Technical Services for configuration and installation of Customer Owned LAN equipment.
117	NWN Fully Managed LAN-Implementation Services for Customer Owned Equipment (500 + sites)	NWNCA-LANIMPL4	Technical Services for configuration and installation of Customer Owned LAN equipment.
118	NWN Professional and Technical Services	Several: See Items 119-128 below	Supplemental 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 network changes. These activities will be defined on a per Customer basis (detailed Scope of Work required) with the defined deliverable being a

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			design/configuration document. Pricing is based on the below Professional services rates
119	NWN Technical Services – Junior Engineer Standard Hours/Regular Rate (8am – 5pm local time)	NWNCA-TSJR	2-4 Years of experience working in an enterprise level IT environment.
120	NWN Technical Services – Junior Engineer Non-Standard Hours	NWNCA-TSJROT	2-4 Years of experience working in an enterprise level IT environment.
121	NWN Technical Services – Senior Engineer Standard Hours/Regular Rate (8am – 5pm local time)	NWNCA-TSSR	At least 7 years of experience that is directly related to the duties and responsibilities specified.
122	NWN Technical Services – Senior Engineer Non-Standard Hours	NWNCA-TSSROT	At least 7 years of experience that is directly related to the duties and responsibilities specified.
123	NWN Technical Services – Expert Engineer Standard	NWNCA-TSEXP	7+ years of experience with IT project management or technical experience.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
	Hours/Regular Rate (8am – 5pm local time)		<p>7+ years of experience with IT design for a Customer, including requirement definition and execution.</p> <p>7+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule.</p> <p>7+ years of experience leading cross-functional teams and staff of all levels.</p>
124	NWN Technical Services – Expert Engineer Non-Standard Hours	NWNCA-TSEXPOT	<p>7+ years of experience with IT project management or technical experience.</p> <p>7+ years of experience with IT design for a Customer, including requirement definition and execution.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			<p>7+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule.</p> <p>7+ years of experience leading cross-functional teams and staff of all levels.</p>
125	NWN Technical Services – Senior Design Engineer Standard Hours/Regular Rate (8am – 5pm local time)	NWNCA-PSSR	<p>10+ years of experience with IT project management or technical experience.</p> <p>10+ years of experience with IT design for A Customer, including requirement definition and execution.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			<p>10+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule.</p> <p>12+ years of experience leading cross-functional teams and staff of all levels.</p>
126	NWN Technical Services – Senior Design Engineer Non-Standard Hours	NWNCA-PSSROT	<p>10+ years of experience with IT project management or technical experience.</p> <p>10+ years of experience with IT design for A Customer, including requirement definition and execution.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			<p>10+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule.</p> <p>12+ years of experience leading cross-functional teams and staff of all levels.</p>
127	NWN Technical Services – Expert Design Engineer Standard Hours/Regular Rate (8am – 5pm local time)	NWNCA-PSEXP	<p>10+ years of experience with IT project management or technical experience.</p> <p>10+ years of experience with IT design for A Customer, including requirement definition and execution.</p>



Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			10+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule. 12+ years of experience leading cross-functional teams and staff of all levels.
128	NWN Technical Services – Expert Design Engineer Non-Standard Hours	NWNCA-PSEX POT	10+ years of experience with IT project management or technical experience. 10+ years of experience with IT design for A Customer, including requirement definition and execution.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			10+ years of experience developing project plans including a project plan that includes the charter, scope, project management approach, management plans, statement of work, cost estimates, schedule. 12+ years of experience leading cross-functional teams and staff of all levels.

## 20.3 OTHER SERVICES

### 20.3.1 Hourly Rates for Services

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

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

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

Regular Hours in accordance with the State of California Department of Industrial Relations.

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

20.3.2 Services Related Infrastructure (SRI)

The Contractor shall offer infrastructure service as defined below.

20.3.2.1 Extended Demarcation Wiring Services

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

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

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

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

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

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

1. The wire/cable pathway is blocked, and cannot be cleared without significant effort or damage to the Customer site;

2. The wire/cable pathway is in an asbestos or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Upon written release provided by either the Customer or by the CALNET Program.

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

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

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

Bidder shall provide the Extended Demarcation Wiring Services described in Table 20.3.2.1

**Table 20.3.2.1 – Extended Demarcation Wiring Services**

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
1	Extended Demarcation - Copper – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.		ATS-3PN-DMCCOP	<b>Yes</b>
2	Extended Demarcation - Copper – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.		ATS-3PN-DMCCOP-AH	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
3	Extended Demarcation - Copper – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.		ATS-3PN-DMCCOP-AHW	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
4	Extended Demarcation - Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.		ATS-3PN-DMCCOP25	Yes

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
5	Extended Demarcation - Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.		ATS-3PN-DMCCOP25-AH	<b>Yes</b>



Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
6	Extended Demarcation - Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.		ATS-3PN-DMCCOP25-AHW	Yes

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
7	Extended Demarcation - Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.		ATS-3PN-DMCFIB	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
8	Extended Demarcation - Optical Fiber Link - Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.		ATS-3PN-DMCFIB-AH	<b>Yes</b>

<b>Line Item</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Bidder's Product Description, Restrictions and Limitations</b>	<b>Bidder's Product Identifier</b>	<b>Bidder Meets or Exceeds? Yes or No</b>
9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.		ATS-3PN-DMCFIB-AHW	<b>Yes</b>

#### 20.3.2.2 Unsolicited Services Related Infrastructure

Bidder may offer additional unsolicited Services Related Infrastructure in Table 20.3.2.2.

**Table 20.3.2.2 – Unsolicited Services Related Infrastructure**

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

### 20.3.3 Services Related Hourly Support

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

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

In Cost Worksheet 20.3.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten hours per dispatch/occurrence.

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

The Contractor shall offer emergency restoration services as detailed in Table 20.3.3

**Table 20.3.3 – Services Related Hourly Support**

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

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

## 20.4 SERVICE LEVEL AGREEMENTS (SLA)

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

### 20.4.1 Service Level Agreement Format

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

1. SLA Name – Each SLA Name must be unique;
2. Definition - Describes what performance metric will be measured;
3. Measurements Process - Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure

compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;

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

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

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

#### 20.4.2 Technical Requirements versus SLA Objectives

Sections 20.2 (MPLS Services) and 20.3 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

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

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

#### 20.4.3 Methods of Outage Reporting: Customer or Contractor

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

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

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

#### 20.4.4 Bidder Response to Service Level Agreements

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

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

#### 20.4.5 Contractor SLA Management Plan

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

1. Contractor SLA Manager and supporting staff responsibilities;
2. Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;
3. Creation and delivery of SLA Reports (SOW Business Requirements Section G.10.5). The Contractor shall include a sample report in accordance with SOW Business Requirements Section G.10.5, SLA Reports for the following: SLA Service Performance Report (SOW Business Requirements Section G10.5.1), SLA Provisioning Report (SOW Business Requirements Section G.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements Section G.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements Section G.10.5.4). The Contractor shall commit to a monthly due date. The

reports shall be provided to the CALNET Program via the Private Oversight Website (SOW Business Requirements Section G.10.2);

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

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

#### 20.4.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET Technical SLAs (Section 20.4.8):

1. With the exception of the Provisioning SLA (Section 20.4.8.9), the total SLA rights and remedies for any given month shall not exceed the sum of 100% of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
2. If a circuit or service fails to meet one or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET SLAs and remedies for services provided by Subcontractors and/or Affiliates;
4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA; and,
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges.

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

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

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

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

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

8. To the extent that Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), The State will be entitled to the same rights and/or remedies therein. The Contractor shall present the SLAs to CALNET Program for possible inclusion via amendments;
9. The Contractor shall apply CALNET DNCS SLAs and remedies to services provided in all areas the Contractor provides service and/or open to competition (as defined by the CPUC). Any SLAs and remedies negotiated between Contractor and Incumbent Local Exchange Carriers in territories closed to competition shall be passed through to the CALNET DNCS Customer;
10. The election by CALNET Program of any SLA remedy covered by this Contract shall not exclude or limit CALNET Program or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;
13. The Customer Escalation Process and/or the CALNET CMO Escalation Process shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
14. Trouble reporting and restoration shall be provided 24x7 for CALNET services;

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

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

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

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

17. The Contractor shall provide a CALNET DNCS SLA Manager responsible for CALNET DNCS SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET Program SLA oversight, report issues, and problem resolution concerns. The CALNET DNCS SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;
18. The Contractor shall provide Customer and CALNET Program support for SLA inquiries and issue resolution; and,
19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET DNCS Customer.

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

**20.4.7 Trouble Ticket Stop Clock Conditions**

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 20.4.7.a, which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) or Customer provisioning Service Request for each application of an SCC.

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

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

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

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

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

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

**Table 20.4.7.a – Stop Clock Conditions**

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

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

Line Item	Stop Clock Condition (SCC)	SCC Definition
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET DNCS service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.

Line Item	Stop Clock Condition (SCC)	SCC Definition
14	FORCE MAJEURE	Force Majeure events, as defined in the eVAQ General Provisions - Telecommunications, Section 28 (Force Majeure).
15	CUSTOMER ENVIRONMENTAL	An outage directly caused by customer premise environmental conditions, which are outside the control and responsibility of the Contractor. This includes a non-secured location, excessive heat or lack of cooling. If determined later that the environmental conditions were not the cause of the service outage, or a result of the Contractor modifying Contractor provided equipment without Customer's approval, the Customer Environmental SCC will not apply.

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

The Contractor shall provide and manage the following Technical SLAs.

**20.4.8 Technical Service Level Agreements (SLAs)**

**20.4.8.1 Availability (M-S)**

**SLA Name:** Availability

**Definition:**

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

**Measurement Process:**

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



**Services:**

MPLS

**Objective A:**

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

Service Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
DS1	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	P
Ethernet	≥ 99.2%	≥ 99.5%	≥ 99.8%	P

**Rights and Remedies:**

1. Per Occurrence:

- N/A

2. Monthly Aggregated Measurements:

- First month to fail to meet the committed SLA objective shall result in a 15% credit or refund of the TMRC.
- The second consecutive month to fail to meet the committed SLA objective shall result in a 30% credit or refund of TMRC.
- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 50% credit or refund of the TMRC.

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

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

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

**Definition:**

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

Failure of two or more service types, or  
Failure of ten access circuits, or

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

**Services:**

MPLS

**Objectives:**

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	≤ 3 hours	≤ 2 hours	≤ 1 hour	P

**Rights and Remedies:**

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

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

20.4.8.3 Catastrophic Outage 2 (CAT 2) (M-S)

**SLA Name:** Catastrophic Outage 2 (CAT 2)

**Definition:**

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

**Measurement Process:**

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

**Services:**

MPLS

**Objectives:**

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P

**Rights and Remedies:**

1. Per Occurrence:

- 100% credit or refund of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault.

2. Monthly Aggregated Measurements:

- N/A

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

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

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

**Definition:**

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

**Services:**

MPLS

**Objectives:**

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS	≤ 30 Minutes	N/A	≤ 15 Minutes	P

**Rights and Remedies:**

1. Per Occurrence:

- 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) not meeting the committed objective for each Cat 3 fault.

2. Monthly Aggregated Measurements:

- N/A

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

20.4.8.5 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 CMO shall determine the sample interval, provided that a minimum of 100 pings or more shall constitute a 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

**Objective(s):**

Based on a 1,000 byte ping:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS $\geq$ 1.536 Mbps to < 10 Mbps	< 400ms	N/A	< 340ms	P
MPLS $\geq$ 11 Mbps to < 100 Mbps	< 400ms	N/A	< 340ms	P
MPLS $\geq$ 100 Mbps	< 400ms	N/A	< 340ms	P

**Rights and Remedies:**

1. Per Occurrence:

- N/A

2. Monthly Aggregated Measurements:

- 25% credit or refund of the TMRC per occurrence for the reported service.
- The second consecutive month service fails to meet the committed SLA objectives shall result in a 35% rebate of TMRC.
- Each additional consecutive month service fails to meet the committed SLA objective shall result in a 50% rebate of the TMRC.

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

20.4.8.6 Excessive Outage (M-S)

**SLA Name:** Excessive Outage

**Definition:**

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

### Measurement Process:

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

### Services:

MPLS

### Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	16 Hours	12 Hours	8 Hours	P

### Rights and Remedies:

1. Per Occurrence:

- 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.
- Upon request from the Customer or the CALNET Program, the Contractor shall provide a briefing on the excessive outage restoration.

2. Monthly Aggregated Measurements:

- N/A

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

#### 20.4.8.7 Managed Service Proactive Notification (M-S)

**SLA Name:** Managed Service Proactive Notification

**Definition:**

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

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

**Measurement Process:**

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

**Services:**

MPLS Access Transport Speeds  
MPLS Port Transport Speeds  
MPLS Port, Access and Layer 3 Bundled Transport Speeds

**Objectives:**

15 Minutes

**Rights and Remedies:**

1. Per Occurrence:
  - Internet Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period.
2. Monthly Aggregated Measurements:
  - N/A



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

20.4.8.8 Notification

**SLA Name:** Notification

**Definition:**

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

**Measurement Process:**

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

**Services:**

All services

**Objectives:**

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

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

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

**Rights and Remedies:**

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

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

20.4.8.9 Provisioning (M-S)

**SLA Name:** Provisioning

**Definition:**

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

**Provisioning SLAs have two objectives:**

Objective 1: Individual service installation; and,

Objective 2: Successful Install Monthly Percentage by service type.

Note: Provisioning timelines include extended demarcation wiring when appropriate.

**Measurement Process:**

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

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

#### Services:

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

Service (Features must be installed with service except when listed below.	Committed Interval Days	Coordinated/Managed Project
MPLS Access Transport Speeds	35	Coordinated/Managed Project
MPLS Port Transport Speeds	35	Coordinated/Managed Project
MPLS Port, Access and Layer 3 Bundled Transport Speeds	45	Coordinated/Managed Project

#### Objectives:

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

Objective 2: Monthly Average percent by service type:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS Access Transport Speeds	≥ 90%	N/A	≥ 95%	P
MPLS Port Transport Speeds	≥ 90%	N/A	≥ 95%	P

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MPLS Port, Access and Layer 3 Bundled Transport Speeds	≥ 90%	N/A	≥ 95%	P

**Rights and Remedies:**

1. Per Occurrence:

- Objective 1: Individual service installations: 50% of installation fee credited to the Customer for any missed committed objective.

2. Monthly Aggregated Measurements:

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

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

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

**SLA Name:** Time To Repair (TTR)

**Definition:**

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

**Measurement Process:**

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

**Services:**

MPLS

### Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MPLS	6 Hours	5 Hours	4 Hours	P

### Rights and Remedies:

1. Per Occurrence:

- First month the service fails to meet the committed SLA objective shall result in a 25% credit or refund of TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.

2. Monthly Aggregated Measurements:

- N/A

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

#### 20.4.8.11 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 this requirement and shall meet or exceed it? Yes

#### 20.4.8.12 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 20.3.8 for each unsolicited offering determined by the CALNET Program not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

#### 20.4.8.13 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in Section 20.4.8.

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