

IFB C4DNCS19
Data Networks and Communications Services

CATEGORY 24 – FLAT RATE INTERNET SERVICES

Crown Castle

CATALOG B

July 23, 2020

Issued by:

STATE OF CALIFORNIA

California Department of Technology Statewide
Procurement

PO Box 1810

Rancho Cordova, CA 95741

TABLE OF CONTENTS

24.2.5.1.B – INTERNET FLAT RATE SERVICE (INFRA) 3
 Table 24.2.5.1.b – Internet Flat Rate Service (InFRa)3

24.2.5.2 INTERNET FLAT RATE WITH MANAGED ROUTER SERVICE
(INFRAM) 13
 Table 24.2.5.2.a – Internet Flat Rate with Managed Router Service 14

24.2.7 ADDITIONAL INTERNET SERVICES 33
 Table 24.2.7 – Additional Internet Services33

24.4.4 DDOS DETECTION AND MITIGATION SERVICE 34
 Table 24.4.4.a – DDoS Detection and Mitigation Service34

24.5.2.1 EXTENDED DEMARCATION WIRING SERVICES 37
 Table 24.5.2.1 – Extended Demarcation Wiring Services37

24.5.3 SERVICES RELATED HOURLY SUPPORT 45
 Table 24.5.3 – Services Related Hourly Support45

CATEGORY 24 – Flat Rate Internet Services

24.2.5.1.b – Internet Flat Rate Service (InFRa)

Contractor’s Description of Service:

Dedicated Internet Access with an assigned bandwidth commitment which shall be the maximum bandwidth commitment (Committed Rate subscribed to).

Geographic Availability:

Greater Los Angeles, Inland Empire and Orange County, Greater San Diego. Other areas in California may be available.

Service is subject to availability. In cases where service is not available to a specific location, special construction charges may apply. Special construction cannot be ordered using the CALNET contract and must be procured through other methods.

State Associated Administrative Fee Charge - Services identified below with “Yes” in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer’s invoice.

Table 24.2.5.1.b – Internet Flat Rate Service (InFRa)

#	Feature Name	Contractor’s Product ID	Feature Description	Contractor’s Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
1	InFRa @ 1.544 Mbps	CCF17012a	Internet Flat Rate Service (InFRa) at 1.544 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 150.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
2	InFRa @ 5 Mbps	CCF170125	Internet Flat Rate Service (InFRa) at 5 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 215.00	Each	Yes	Yes	Required
3	InFRa @ 10 Mbps	CCF17012InF	Internet Flat Rate Service (InFRa) at 10 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 366.00	Each	Yes	Yes	Required
4	InFRa @ 15 Mbps	CCF1701315	Internet Flat Rate Service (InFRa) at 15 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 369.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
5	InFRa @ 20 Mbps	CCF17013InF	Internet Flat Rate Service (InFRa) at 20 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 369.00	Each	Yes	Yes	Required
6	InFRa @ 25 Mbps	CCF1701425	Internet Flat Rate Service (InFRa) at 25 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 370.00	Each	Yes	Yes	Required
7	InFRa @ 30 Mbps	CCF17014	Internet Flat Rate Service (InFRa) at 30 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 370.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
8	InFRa @ 35 Mbps	CCF1701535	Internet Flat Rate Service (InFRa) at 35 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 372.00	Each	Yes	Yes	Required
9	InFRa @ 40 Mbps	CCF17015	Internet Flat Rate Service (InFRa) at 40 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 372.00	Each	Yes	Yes	Required
10	InFRa @ 45 Mbps	CCF1701645	Internet Flat Rate Service (InFRa) at 45 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 375.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
11	InFRa @ 50 Mbps	CCF17016InF	Internet Flat Rate Service (InFRa) at 50 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 375.00	Each	Yes	Yes	Required
12	InFRa @ 55 Mbps	CCF1701755	Internet Flat Rate Service (InFRa) at 55 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 382.00	Each	Yes	Yes	Required
13	InFRa @ 60 Mbps	CCF17017	Internet Flat Rate Service (InFRa) at 60 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 382.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
14	InFRa @ 100 Mbps	CCF17021InF	Internet Flat Rate Service (InFRa) at 100 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 461.00	Each	Yes	Yes	Required
15	InFRa @ 150 Mbps	CCF17022InF	Internet Flat Rate Service (InFRa) at 150 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 552.00	Each	Yes	Yes	Required
16	InFRa @ 200 Mbps	CCF17023	Internet Flat Rate Service (InFRa) at 200 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 562.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
17	InFRa @ 500 Mbps	CCF17026InF	Internet Flat Rate Service (InFRa) at 500 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 869.00	Each	Yes	Yes	Required
18	InFRa @ 1 Gbps	CCF17031InF	Internet Flat Rate Service (InFRa) at 1 Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 1,767.00	Each	Yes	Yes	Required
19	InFRa @ 10 Gbps	CCF170310InF	Internet Flat Rate Service (InFRa) at 10 Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 6,508.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
20	InFRa @ 300 Mbps	CCF17024	Internet Flat Rate Service (InFRa) at 300 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 665.00	Each	Yes	Yes	Required
21	InFRa @ 400 Mbps	CCF17025	Internet Flat Rate Service (InFRa) at 400 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 729.00	Each	Yes	Yes	Required
22	InFRa @ 600 Mbps	CCF17027	Internet Flat Rate Service (InFRa) at 600 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 948.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
23	InFRa @ 700 Mbps	CCF17028	Internet Flat Rate Service (InFRa) at 700 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 1,030.00	Each	Yes	Yes	Required
24	InFRa @ 800 Mbps	CCF17029	Internet Flat Rate Service (InFRa) at 800 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 1,141.00	Each	Yes	Yes	Required
25	InFRa @ 900 Mbps	CCF17030	Internet Flat Rate Service (InFRa) at 900 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA	\$ 0.00	\$ 1,281.00	Each	Yes	Yes	Required

24.2.5.2 Internet Flat Rate with Managed Router Service (InFRaM)

Contractor's Description of Service:

Dedicated Internet Access with an assigned bandwidth commitment which shall be the maximum bandwidth commitment (Committed Rate subscribed to) and is inclusive of a managed IP enabled routing device.

Geographic Availability:

Greater Los Angeles, Inland Empire and Orange County, Greater San Diego. Other areas in California may be available.

Service is subject to availability. In cases where service is not available to a specific location, special construction charges may apply. Special construction cannot be ordered using the CALNET contract and must be procured through other methods.

State Associated Administrative Fee Charge - Services identified below with "Yes" in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer's invoice.

Table 24.2.5.2.a – Internet Flat Rate with Managed Router Service

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
1	InFRaM @ 1.544 Mbps	CCF17012-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 1.544 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 0.00	\$ 350.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
2	InFRaM @ 5 Mbps	CCF17012-MR2	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 5 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 410.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
3	InFRaM @ 10 Mbps	CCF17012-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 10 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 561.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
4	InFRaM @ 15 Mbps	CCF17013-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 15 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 564.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
5	InFRaM @ 20 Mbps	CCF17013-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 20 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 564.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
6	InFRaM @ 25 Mbps	CCF17014-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 25 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 565.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
7	InFRaM @ 30 Mbps	CCF17014-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 30 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 565.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
8	InFRaM @ 35 Mbps	CCF17015-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 35 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 567.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
9	InFRaM @ 40 Mbps	CCF17015-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 40 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 567.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
10	InFRaM @ 45 Mbps	CCF17016-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 45 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 570.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
11	InFRaM @ 50 Mbps	CCF17016-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 50 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 570.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
12	InFRaM @ 55 Mbps	CCF17017-MR1	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 55 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 577.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
13	InFRaM @ 60 Mbps	CCF17017-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 60 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 577.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
14	InFRaM @ 100 Mbps	CCF17021-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 100 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 656.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
15	InFRaM @ 150 Mbps	CCF17022-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 150 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 747.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
16	InFRaM @ 200 Mbps	CCF17023-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 200 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 757.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
17	InFRaM @ 500 Mbps	CCF17026-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 500 Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 1,064.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
18	InFRaM @ 1 Gbps	CCF17031-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 1 Gbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 200.00	\$ 1,962.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
19	InFRaM @ 10 Gbps	CCF170310-MR	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 10 Gbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: SMF, LC Network-side Interface: SMF, LC Protocol: IPv4/v6 over Ethernet Upload Speed: Committed Rate Subscribed to Product Description: DIA. BGP or static routing; customer is responsible for providing space and power.	\$ 1,500.00	\$ 6,703.00	Each	Yes	Yes	Required

24.2.7 Additional Internet Services

Contractor's Description of Service:

[Type Description Here]

Geographic Availability:

[Type Description Here]

State Associated Administrative Fee Charge - Services identified below with "Yes" in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer's invoice.

Table 24.2.7 – Additional Internet Services

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
---	--------------	-------------------------	---------------------	--	-------------------------------	--	-----------------	-----------------------	----------------------------	---------------------------

24.4.4 DDoS Detection and Mitigation Service

Contractor's Description of Service:

Distributed Denial of Service is a DDoS defense product which includes monitoring, attack detection and mitigation. Must be an internet access customer to utilize this service.

Geographic Availability:

Greater Los Angeles, Inland Empire and Orange County, Greater San Diego. Other areas in California may be available.

Service is subject to availability. In cases where service is not available to a specific location, special construction charges may apply. Special construction cannot be ordered using the CALNET contract and must be procured through other methods.

State Associated Administrative Fee Charge - Services identified below with "Yes" in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer's invoice.

Table 24.4.4.a – DDoS Detection and Mitigation Service

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
1	DDoS Mitigation 1.544–10 Mbps	CCF17012-DD	DDoS Mitigation Services for 1.544–10 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 366.00	Each	Yes	Yes	Required
2	DDoS Mitigation 15 Mbps	CCF17013-DD	DDoS Mitigation Services for 15 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 369.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
3	DDoS Mitigation 25 Mbps	CCF17014-DD	DDoS Mitigation Services for 25 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 370.00	Each	Yes	Yes	Required
4	DDoS Mitigation 50 Mbps	CCF17016-DD	DDoS Mitigation Services for 50 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 375.00	Each	Yes	Yes	Required
5	DDoS Mitigation 100 Mbps	CCF17021-DD	DDoS Mitigation Services for 100 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 461.00	Each	Yes	Yes	Required
6	DDoS Mitigation 250 Mbps	CCF17024-DD	DDoS Mitigation Services for 250 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 665.00	Each	Yes	Yes	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
7	DDoS Mitigation 500 Mbps	CCF17026-DD	DDoS Mitigation Services for 500 Mbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 869.00	Each	Yes	Yes	Required
8	DDoS Mitigation 1 Gbps	CCF17031-DD	DDoS Mitigation Services for 1 Gbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 1,767.00	Each	Yes	Yes	Required
9	DDoS Mitigation 5 Gbps	CCF17032-DD	DDoS Mitigation Services for 5 Gbps of traffic flow.	DDoS Defense includes: Monitoring, Attack Detection, and Unlimited Mitigation	\$ 0.00	\$ 5,255.55	Each	Yes	Yes	Required

24.5.2.1 Extended Demarcation Wiring Services

Contractor’s Description of Service:

Includes wiring and cable related tasks required to extend the service from the Contractor's minimum point of entry (MPOE) to the Customer defined termination point.

Geographic Availability:

Greater Los Angeles, Inland Empire and Orange County, Greater San Diego. Other areas in California may be available.

State Associated Administrative Fee Charge - Services identified below with “Yes” in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer’s invoice.

Table 24.5.2.1 – Extended Demarcation Wiring Services

#	Feature Name	Contractor’s Product ID	Feature Description	Contractor’s Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
1	Extended Demarcation - Copper – Regular Hours	CCF19504-CP	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.		\$ 150.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
2	Extended Demarcation - Copper – Overtime Hours	CCF19505-CP	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.		\$ 187.00	N/A	Installation	No	No	Required
3	Extended Demarcation - Copper – Sunday and Holiday Hours	CCF19506-CP	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.		\$ 235.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
4	Extended Demarcation - Copper 25 Pair – Regular Hours	CCF19504-CP25	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.		\$ 900.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
5	Extended Demarcation - Copper 25 Pair – Overtime Hours	CCF19505-CP25	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.		\$ 1,125.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
6	Extended Demarcation - Copper 25 Pair – Sunday and Holiday Hours	CCF19506-CP25	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.		\$ 1,425.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
7	Extended Demarcation - Optical Fiber Link – Regular Hours	CCF19504	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.		\$ 1,000.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
8	Extended Demarcation - Optical Fiber Link – Overtime Hours	CCF19505	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.		\$ 1,050.00	N/A	Installation	No	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	CCF19506	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.		\$ 1,050.00	N/A	Installation	No	No	Required

24.5.3 Services Related Hourly Support

Contractor's Description of Service:

Hourly Labor for a dispatched field technician to diagnose and/or repair a service impacting issue outside of the scope of Contractor responsibility or in cases where a dispatch occurred, and no trouble is found. Any costs for the repair are the sole responsibility of the Customer and shall be agreed to by the Customer prior to the repair.

Geographic Availability:

Greater Los Angeles, Inland Empire and Orange County, Greater San Diego. Other areas in California may be available.

State Associated Administrative Fee Charge - Services identified below with "Yes" in the SAAF Applied column will have a 2.5% fee applied to the Monthly Recurring Charge or usage. Charges below do not include the SAAF. The SAAF will appear as a separate line on the customer's invoice.

Table 24.5.3 – Services Related Hourly Support

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
1	Field Service Repair Technician Regular Hours	CCF19501	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.		\$ 200.00	N/A	Hour	Yes	No	Required

#	Feature Name	Contractor's Product ID	Feature Description	Contractor's Description, Restrictions and Limitations	Non-Recurring Charge Per Item	Monthly Recurring Charge/Item per Unit	Unit of Measure	SAAF Applied (Yes/No)	Delegation Needed (Yes/No)	Required or Discretionary
2	Field Service Repair Technician Overtime Hours	CCF19502	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.		\$ 300.00	N/A	Hour	Yes	No	Required
3	Field Service Repair Technician Sunday and Holiday Hours	CCF19503	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.		\$ 400.00	N/A	Hour	Yes	No	Required