

IFB C4DNCS19  
Data Networks and Communications Services

CATEGORY 24 – FLAT RATE INTERNET SERVICES

**WaveDivision Holdings, LLC dba Astound Business  
Solutions**

**CATALOG B**

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## CATEGORY 24 – Flat Rate Internet Services

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

**Contractor’s Description of Service:**

The services shall consist of a dedicated Internet port and transport, on the Contractor’s private network, from the Customer site to the nearest Contractor Point-of-Presence (POP). The service shall include all equipment, cabling and labor required to provide a User-to-Network Interface (UNI) at the Customer premise Minimum Point of Entry (MPOE).

**Geographic Availability:**

The State of California

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	WB-2400-00000005	Internet Flat Rate Service (InFRa) at 1.544 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$387.00	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	WB-2400-00000005	Internet Flat Rate Service (InFRa) at 5 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$387.00	Each	Yes	Yes	Required
3	InFRa @ 10 Mbps	WB-2400-00000010	Internet Flat Rate Service (InFRa) at 10 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$387.00	Each	Yes	Yes	Required
4	InFRa @ 15 Mbps	WB-2400-00000015	Internet Flat Rate Service (InFRa) at 15 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)		\$442.00	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
				Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access						
5	InFRa @ 20 Mbps	WB-2400-00000020	Internet Flat Rate Service (InFRa) at 20 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$442.00	Each	Yes	Yes	Required
6	InFRa @ 25 Mbps	WB-2400-00000025	Internet Flat Rate Service (InFRa) at 25 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$450.00	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	InFRa @ 30 Mbps	WB-2400-00000030	Internet Flat Rate Service (InFRa) at 30 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$450.00	Each	Yes	Yes	Required
8	InFRa @ 35 Mbps	WB-2400-00000035	Internet Flat Rate Service (InFRa) at 35 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$460.00	Each	Yes	Yes	Required
9	InFRa @ 40 Mbps	WB-2400-00000040	Internet Flat Rate Service (InFRa) at 40 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS		\$460.00	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
				Upload Speed: symmetrical Product Description: Dedicated Internet Access						
10	InFRa @ 45 Mbps	WB-2400-00000045	Internet Flat Rate Service (InFRa) at 45 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$471.00	Each	Yes	Yes	Required
11	InFRa @ 50 Mbps	WB-2400-00000050	Internet Flat Rate Service (InFRa) at 50 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$471.00	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	InFRa @ 55 Mbps	WB-2400-00000055	Internet Flat Rate Service (InFRa) at 55 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$490.00	Each	Yes	Yes	Required
13	InFRa @ 60 Mbps	WB-2400-00000060	Internet Flat Rate Service (InFRa) at 60 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$490.00	Each	Yes	Yes	Required
14	InFRa @ 100 Mbps	WB-2400-00000100	Internet Flat Rate Service (InFRa) at 100 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS		\$575.00	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
				Upload Speed: symmetrical Product Description: Dedicated Internet Access						
15	InFRa @ 150 Mbps	WB-2400-00000150	Internet Flat Rate Service (InFRa) at 150 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$654.00	Each	Yes	Yes	Required
16	InFRa @ 200 Mbps	WB-2400-00000200	Internet Flat Rate Service (InFRa) at 200 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$654.00	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	WB-2400-00000500	Internet Flat Rate Service (InFRa) at 500 Mbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$849.00	Each	Yes	Yes	Required
18	InFRa @ 1 Gbps	WB-2400-00001000	Internet Flat Rate Service (InFRa) at 1 Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$1,152.00	Each	Yes	Yes	Required
19	InFRa @ 10 Gbps	WB-2400-00010000	Internet Flat Rate Service (InFRa) at 10 Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 10GbE  Protocol: EoMPLS		\$6,811.00	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
				Upload Speed: symmetrical Product Description: Dedicated Internet Access						
20	InFRa @ 5 Gbps	WB-2400-00005000	Internet flat rate service (InFRa) at 5Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 5GbE  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$3,668.00	Each	Yes	Yes	Required
21	InFRa @ 20 Gbps	WB-2400-00020000	Internet flat rate service (InFRa) at 20Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 20GbE  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$13,000.00	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
22	InFRa @ 40 Gbps	WB-2400-00040000	Internet flat rate service (InFRa) at 40Gbps. Includes dedicated Internet port and transport.	Interface/Access Type: Ethernet Network-side Interface: 40GbE  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access		\$20,000.00	Each	Yes	Yes	Required

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

### Contractor's Description of Service:

The services shall consist of a dedicated Internet Port and Transport from the Customer site to the nearest contractor POP. The service shall include all equipment, cabling and labor required to provide a UNI at the Customer premise MPOE and a Contractor owned, maintained and managed IP enabled routing device.

### Geographic Availability:

The State of California

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	WB-2400-10000005	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router		\$486.00	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	WB-2400-10000005	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router:		\$486.00	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	WB-2400-10000010	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router:		\$486.00	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	WB-2400-10000015	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router:		\$541.00	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	WB-2400-10000020	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router:		\$541.00	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	WB-2400-10000025	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$549.00	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	WB-2400-10000030	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$549.00	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	WB-2400-10000035	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$559.00	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	WB-2400-10000040	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$559.00	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	WB-2400-10000045	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$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	WB-2400-10000050	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$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	WB-2400-10000055	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$589.00	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	WB-2400-10000060	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$589.00	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	WB-2400-10000100	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$674.00	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	WB-2400-10000150	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$753.00	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	WB-2400-10000200	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$753.00	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	WB-2400-10000500	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$1,199.00	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	WB-2400-10001000	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: Ethernet Network-side Interface: 1 Mbps up to 1 GbE (Gigabit Ethernet)  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$1,951.00	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	WB-2400-10010000	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: Ethernet Network-side Interface: 10GbE  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$8,811.00	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	InFRaM @ 5 Gbps	WB-2400-10005000	Internet Flat Rate Service with Managed IP Enabled Routing Device (InFRaM) at 5 Gbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed IP enabled routing device.	Interface/Access Type: Ethernet Network-side Interface: 5GbE  Protocol: EoMPLS Upload Speed: symmetrical Product Description: Dedicated Internet Access with Managed Router.		\$5,668.00	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:

A network based Distributed Denial of Service (DDoS) detection and mitigation service, in support of Contractor's Internet services. All hardware/software necessary to provide service shall reside in the Contractors network and shall be maintained, monitored and supported by the Contractor. Mitigation shall occur in the Contractor IP Network before traffic reaches Customer edge router. Contractor shall establish User and Entity Behavior Analytical (UEBA) traffic patterns to minimize false positives during the detection/mitigation process and perform periodic "tuning" of normal traffic patterns established. The Contractor shall analyze, identify, report and alert on anomalies in Customer traffic under DDoS attacks. Upon detection of a DDoS attack, Contractor shall reroute traffic to a network based mitigation center where DDoS attack packets are identified and dropped. Valid packets shall be routed to the Customer edge router. Upon Contractor determination that the DDoS attack has subsided, Contractor shall restore the normal routing of Customer traffic. The solution shall mitigate volumetric, protocol or resource, and application layer (Layers 3, 4 & 7) attacks. The offering shall defend against Network flood attacks (SYN, SYN-ACK, TCP, UDP, IP, ICMP, etc.)

### Geographic Availability:

The State of California

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	WB-2400-30000100	DDoS Mitigation Services for 1.544–10 Mbps of traffic flow.			\$350.00	Each	Yes	Yes	Required
2	DDoS Mitigation 15 Mbps	WB-2400-30000100	DDoS Mitigation Services for 15 Mbps of traffic flow.			\$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
3	DDoS Mitigation 25 Mbps	WB-2400-30000100	DDoS Mitigation Services for 25 Mbps of traffic flow.			\$350.00	Each	Yes	Yes	Required
4	DDoS Mitigation 50 Mbps	WB-2400-30000100	DDoS Mitigation Services for 50 Mbps of traffic flow.			\$350.00	Each	Yes	Yes	Required
5	DDoS Mitigation 100 Mbps	WB-2400-30000100	DDoS Mitigation Services for 100 Mbps of traffic flow.			\$350.00	Each	Yes	Yes	Required
6	DDoS Mitigation 250 Mbps	WB-2400-30001000	DDoS Mitigation Services for 250 Mbps of traffic flow.			\$1,000.00	Each	Yes	Yes	Required
7	DDoS Mitigation 500 Mbps	WB-2400-30001000	DDoS Mitigation Services for 500 Mbps of traffic flow.			\$1,000.00	Each	Yes	Yes	Required
8	DDoS Mitigation 1 Gbps	WB-2400-30001000	DDoS Mitigation Services for 1 Gbps of traffic flow.			\$1,000.00	Each	Yes	Yes	Required
9	DDoS Mitigation 5 Gbps	WB-2400-30010000	DDoS Mitigation Services for 5 Gbps of traffic flow.			\$5,000.00	Each	Yes	Yes	Required

24.5.2.1 Extended Demarcation Wiring Services

**Contractor's Description of Service:**

The service includes the provision of Extended Demarcation (Extended Demarc) wiring to support the services covered by this IFB C4DNCS19 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 MPOE.

**Geographic Availability:**

The State of California

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	WB-2400-50000001	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.		\$500.00	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	WB-2400-50000002	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.		\$550.00	N/A	Installation	No	No	Required
3	Extended Demarcation -Copper – Sunday and Holiday Hours	WB-2400-50000002	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.		\$550.00	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	WB-2400-50000003	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.		\$500.00	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	WB-2400-50000004	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.		\$550.00	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	WB-2400-50000004	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.		\$550.00	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	WB-2400-50000005	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.		\$500.00	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	WB-2400-50000006	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.		\$550.00	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	WB-2400-50000006	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.		\$550.00	N/A	Installation	No	No	Required

### 24.5.3 Services Related Hourly Support

**Contractor's Description of Service:**

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractor's responsibilities. Work performed under this Section 24.5.3 is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

**Geographic Availability:**

The State of California

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	WB-2400-60000001	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.		\$65.00	N/A	Hour	Yes	No	Required
2	Field Service Repair Technician Overtime Hours	WB-2400-60000002	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.		\$130.00	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
3	Field Service Repair Technician Sunday and Holiday Hours	WB-2400-60000002	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.		\$130.00	N/A	Hour	Yes	No	Required