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Data Networks and Communications Services  
CATEGORY 20 – MPLS Data Network

**Granite Telecommunications. LLC**

**CATALOG B**

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## Category 20 –MPLS Data Network

### 20.2.9 MPLS Transport Speeds

#### 20.2.9.1 MPLS Port Transport Speeds

##### Contractor’s Description of Service:

Granite’s MPLS solution at one endpoint for each of the speeds contracted. All of the port speeds are handed off to the end user over a Cisco termination Network Interface Device (NID) or Customer Premises Equipment (CPE) on an Ethernet port.

##### Geographic Availability:

Statewide

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 20.2.9.1.a – MPLS Port Transport Speeds**

#	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	MPLS Port Service at 1 Mbps	MPLS_GRT_1	MPLS Port service at minimum line rate of 1 Mbps		N/A	\$170.00	Port	Yes	Yes	Required
2	MPLS Port service at 3 Mbps	MPLS_GRT_2	MPLS Port service at minimum line rate of 3 Mbps		N/A	\$180.00	Port	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	MPLS Port service at 4 Mbps	MPLS_GRT_3	MPLS Port service at minimum line rate of 4 Mbps		N/A	\$180.00	Port	Yes	Yes	Required
4	MPLS Port service at 5 Mbps	MPLS_GRT_4	MPLS Port service at minimum line rate of 5 Mbps		N/A	\$200.00	Port	Yes	Yes	Required
5	MPLS Port service at 7 Mbps	MPLS_GRT_5	MPLS Port service at minimum line rate of 7 Mbps		N/A	\$220.00	Port	Yes	Yes	Required
6	MPLS Port service at 9 Mbps	MPLS_GRT_6	MPLS Port service at minimum line rate of 9 Mbps		N/A	\$200.00	Port	Yes	Yes	Required
7	MPLS Port service at 10 Mbps	MPLS_GRT_7	MPLS Port service at minimum line rate of 10 Mbps		N/A	\$200.00	Port	Yes	Yes	Required
8	MPLS Port service at 12 Mbps	MPLS_GRT_8	MPLS Port service at minimum line rate of 12 Mbps		N/A	\$260.00	Port	Yes	Yes	Required
9	MPLS Port service at 15 Mbps	MPLS_GRT_9	MPLS Port service at minimum line rate of 15 Mbps		N/A	\$260.00	Port	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	MPLS Port service at 20 Mbps	MPLS_GRT_10	MPLS Port service at minimum line rate of 20 Mbps		N/A	\$260.00	Port	Yes	Yes	Required
11	MPLS Port service at 30 Mbps	MPLS_GRT_11	MPLS Port service at minimum line rate of 30 Mbps		N/A	\$320.00	Port	Yes	Yes	Required
12	MPLS Port service at 40 Mbps	MPLS_GRT_12	MPLS Port service at minimum line rate of 40 Mbps		N/A	\$320.00	Port	Yes	Yes	Required
13	MPLS Port service at 50 Mbps	MPLS_GRT_13	MPLS Port service at minimum line rate of 50 Mbps		N/A	\$350.00	Port	Yes	Yes	Required
14	MPLS Port service at 60 Mbps	MPLS_GRT_14	MPLS Port service at minimum line rate of 60 Mbps		N/A	\$520.00	Port	Yes	Yes	Required
15	MPLS Port service at 70 Mbps	MPLS_GRT_15	MPLS Port service at minimum line rate of 70 Mbps		N/A	\$520.00	Port	Yes	Yes	Required
16	MPLS Port service at 80 Mbps	MPLS_GRT_16	MPLS Port service at minimum line rate of 80 Mbps		N/A	\$520.00	Port	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	MPLS Port service at 90 Mbps	MPLS_GRT_17	MPLS Port service at minimum line rate of 90 Mbps		N/A	\$520.00	Port	Yes	Yes	Required
18	MPLS Port service at 100 Mbps	MPLS_GRT_18	MPLS Port service at minimum line rate of 100 Mbps		N/A	\$550.00	Port	Yes	Yes	Required
19	MPLS Port service at 150 Mbps	MPLS_GRT_19	MPLS Port service at minimum line rate of 150 Mbps		N/A	\$630.00	Port	Yes	Yes	Required
20	MPLS Port service at 200 Mbps	MPLS_GRT_20	MPLS Port service at minimum line rate of 200 Mbps		N/A	\$710.00	Port	Yes	Yes	Required
21	MPLS Port service at 250 Mbps	MPLS_GRT_21	MPLS Port service at minimum line rate of 250 Mbps		N/A	\$730.00	Port	Yes	Yes	Required
22	MPLS Port service at 300 Mbps	MPLS_GRT_22	MPLS Port service at minimum line rate of 300 Mbps		N/A	\$990.00	Port	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	MPLS Port service at 400 Mbps	MPLS_GRT_23	MPLS Port service at minimum line rate of 400 Mbps		N/A	\$990.00	Port	Yes	Yes	Required
24	MPLS Port service at 500 Mbps	MPLS_GRT_24	MPLS Port service at minimum line rate of 500 Mbps		N/A	\$990.00	Port	Yes	Yes	Required
25	MPLS Port service at 600 Mbps	MPLS_GRT_25	MPLS Port service at minimum line rate of 600 Mbps		N/A	\$1,280.00	Port	Yes	Yes	Required
26	MPLS Port service at 700 Mbps	MPLS_GRT_26	MPLS Port service at minimum line rate of 700 Mbps		N/A	\$1,280.00	Port	Yes	Yes	Required
27	MPLS Port service at 1 Gbps	MPLS_GRT_27	MPLS Port service at minimum line rate of 1 Gbps		N/A	\$1,320.00	Port	Yes	Yes	Required
28	MPLS Port service at 2 Gbps	MPLS_GRT_28	MPLS Port service at minimum line rate of 2 Gbps		N/A	\$2,870.00	Port	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
29	MPLS Port service at 3 Gbps	MPLS_GRT_29	MPLS Port service at minimum line rate of 3 Gbps		N/A	\$3,140.00	Port	Yes	Yes	Required
30	MPLS Port service at 4 Gbps	MPLS_GRT_30	MPLS Port service at minimum line rate of 4 Gbps		N/A	\$3,060.00	Port	Yes	Yes	Required
31	MPLS Port service at 5 Gbps	MPLS_GRT_31	MPLS Port service at minimum line rate of 5 Gbps		N/A	\$3,350.00	Port	Yes	Yes	Required
32	MPLS Port service at 6 Gbps	MPLS_GRT_32	MPLS Port service at minimum line rate of 6 Gbps		N/A	\$3,610.00	Port	Yes	Yes	Required
33	MPLS Port service at 7 Gbps	MPLS_GRT_33	MPLS Port service at minimum line rate of 7 Gbps		N/A	\$3,610.00	Port	Yes	Yes	Required
34	MPLS Port service at 8 Gbps	MPLS_GRT_34	MPLS Port service at minimum line rate of 8 Gbps		N/A	\$3,710.00	Port	Yes	Yes	Required
35	MPLS Port service at 9 Gbps	MPLS_GRT_35	MPLS Port service at minimum line rate of 9 Gbps		N/A	\$3,710.00	Port	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
36	MPLS Port service at 10 Gbps	MPLS_GRT_36	MPLS Port service at minimum line rate of 10 Gbps		N/A	\$3,800.00	Port	Yes	Yes	Required

### 20.2.9.2 MPLS Port and Access Bundled Transport Speeds

#### Contractor's Description of Service:

Granite's MPLS solution includes transport options to one endpoint for each of the speeds contracted. All of the port speeds are delivered over dedicated Ethernet access circuits and handed off to the end user over a Cisco termination Network Interface Device (NID) or Customer Premises Equipment (CPE) on an Ethernet port

#### Geographic Availability:

Statewide

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

#	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	MPLS Port and Access service at 1 Mbps	MPLS_GRT_P &A_1	MPLS Port and Access service at minimum line rate of 1 Mbps		N/A	\$510.00	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	MPLS Port and Access service at 3 Mbps	MPLS_GRT_P &A_2	MPLS Port and Access service at minimum line rate of 3 Mbps		N/A	\$560.00	Each	Yes	Yes	Required
3	MPLS Port and Access service at 4 Mbps	MPLS_GRT_P &A_3	MPLS Port and Access service at minimum line rate of 4 Mbps		N/A	\$560.00	Each	Yes	Yes	Required
4	MPLS Port and Access service at 5 Mbps	MPLS_GRT_P &A_4	MPLS Port and Access service at minimum line rate of 5 Mbps		N/A	\$620.00	Each	Yes	Yes	Required
5	MPLS Port and Access service at 7 Mbps	MPLS_GRT_P &A_5	MPLS Port and Access service at minimum line rate of 7 Mbps		N/A	\$670.00	Each	Yes	Yes	Required
6	MPLS Port and Access service at 9 Mbps	MPLS_GRT_P &A_6	MPLS Port and Access service at minimum line rate of 9 Mbps		N/A	\$620.00	Each	Yes	Yes	Required
7	MPLS Port and Access service at 10 Mbps	MPLS_GRT_P &A_7	MPLS Port and Access service at minimum line rate of 10 Mbps		N/A	\$620.00	Each	Yes	Yes	Required
8	MPLS Port and Access service at 12 Mbps	MPLS_GRT_P &A_8	MPLS Port and Access service at minimum line rate of 12 Mbps		N/A	\$780.00	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	MPLS Port and Access service at 15 Mbps	MPLS_GRT_P &A_9	MPLS Port and Access service at minimum line rate of 15 Mbps		N/A	\$780.00	Each	Yes	Yes	Required
10	MPLS Port and Access service at 20 Mbps	MPLS_GRT_P &A_10	MPLS Port and Access service at minimum line rate of 20 Mbps		N/A	\$780.00	Each	Yes	Yes	Required
11	MPLS Port and Access service at 30 Mbps	MPLS_GRT_P &A_11	MPLS Port and Access service at minimum line rate of 30 Mbps		N/A	\$960.00	Each	Yes	Yes	Required
12	MPLS Port and Access service at 40 Mbps	MPLS_GRT_P &A_12	MPLS Port and Access service at minimum line rate of 40 Mbps		N/A	\$960.00	Each	Yes	Yes	Required
13	MPLS Port and Access service at 50 Mbps	MPLS_GRT_P &A_13	MPLS Port and Access service at minimum line rate of 50 Mbps		N/A	\$1,050.00	Each	Yes	Yes	Required
14	MPLS Port and Access service at 60 Mbps	MPLS_GRT_P &A_14	MPLS Port and Access service at minimum line rate of 60 Mbps		N/A	\$1,590.00	Each	Yes	Yes	Required
15	MPLS Port and Access service at 70 Mbps	MPLS_GRT_P &A_15	MPLS Port and Access service at minimum line rate of 70 Mbps		N/A	\$1,590.00	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	MPLS Port and Access service at 80 Mbps	MPLS_GRT_P &A_16	MPLS Port and Access service at minimum line rate of 80 Mbps		N/A	\$1,590.00	Each	Yes	Yes	Required
17	MPLS Port and Access service at 90 Mbps	MPLS_GRT_P &A_17	MPLS Port and Access service at minimum line rate of 90 Mbps		N/A	\$1,590.00	Each	Yes	Yes	Required
18	MPLS Port and Access service at 100 Mbps	MPLS_GRT_P &A_18	MPLS Port and Access service at minimum line rate of 100 Mbps		N/A	\$1,670.00	Each	Yes	Yes	Required
19	MPLS Port and Access service at 150 Mbps	MPLS_GRT_P &A_19	MPLS Port and Access service at minimum line rate of 150 Mbps		N/A	\$1,890.00	Each	Yes	Yes	Required
20	MPLS Port and Access service at 200 Mbps	MPLS_GRT_P &A_20	MPLS Port and Access service at minimum line rate of 200 Mbps		N/A	\$2,170.00	Each	Yes	Yes	Required
21	MPLS Port and Access service at 250 Mbps	MPLS_GRT_P &A_21	MPLS Port and Access service at minimum line rate of 250 Mbps		N/A	\$2,200.00	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	MPLS Port and Access service at 300 Mbps	MPLS_GRT_P &A_22	MPLS Port and Access service at minimum line rate of 300 Mbps		N/A	\$2,990.00	Each	Yes	Yes	Required
23	MPLS Port and Access service at 400 Mbps	MPLS_GRT_P &A_23	MPLS Port and Access service at minimum line rate of 400 Mbps		N/A	\$2,990.00	Each	Yes	Yes	Required
24	MPLS Port and Access service at 500 Mbps	MPLS_GRT_P &A_24	MPLS Port and Access service at minimum line rate of 500 Mbps		N/A	\$2,990.00	Each	Yes	Yes	Required
25	MPLS Port and Access service at 600 Mbps	MPLS_GRT_P &A_25	MPLS Port and Access service at minimum line rate of 600 Mbps		N/A	\$3,900.00	Each	Yes	Yes	Required
26	MPLS Port and Access service at 700 Mbps	MPLS_GRT_P &A_26	MPLS Port and Access service at minimum line rate of 700 Mbps		N/A	\$3,900.00	Each	Yes	Yes	Required
27	MPLS Port and Access service at 1 Gbps	MPLS_GRT_P &A_27	MPLS Port and Access service at minimum line rate of 1 Gbps		N/A	\$3,990.00	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
28	MPLS Port and Access service at 2 Gbps	MPLS_GRT_P &A_28	MPLS Port and Access service at minimum line rate of 2 Gbps		N/A	\$8,680.00	Each	Yes	Yes	Required
29	MPLS Port and Access service at 3 Gbps	MPLS_GRT_P &A_29	MPLS Port and Access service at minimum line rate of 3 Gbps		N/A	\$9,500.00	Each	Yes	Yes	Required
30	MPLS Port and Access service at 4 Gbps	MPLS_GRT_P &A_30	MPLS Port and Access service at minimum line rate of 4 Gbps		N/A	\$9,270.00	Each	Yes	Yes	Required
31	MPLS Port and Access service at 5 Gbps	MPLS_GRT_P &A_31	MPLS Port and Access service at minimum line rate of 5 Gbps		N/A	\$10,170.00	Each	Yes	Yes	Required
32	MPLS Port and Access service at 6 Gbps	MPLS_GRT_P &A_32	MPLS Port and Access service at minimum line rate of 6 Gbps		N/A	\$10,930.00	Each	Yes	Yes	Required
33	MPLS Port and Access service at 7 Gbps	MPLS_GRT_P &A_33	MPLS Port and Access service at minimum line rate of 7 Gbps		N/A	\$10,930.00	Each	Yes	Yes	Required
34	MPLS Port and Access service at 8 Gbps	MPLS_GRT_P &A_34	MPLS Port and Access service at minimum line rate of 8 Gbps		N/A	\$11,220.00	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
35	MPLS Port and Access service at 9 Gbps	MPLS_GRT_P &A_35	MPLS Port and Access service at minimum line rate of 9 Gbps		N/A	\$11,220.00	Each	Yes	Yes	Required
36	MPLS Port and Access service at 10 Gbps	MPLS_GRT_P &A_36	MPLS Port and Access service at minimum line rate of 10 Gbps		N/A	\$11,520.00	Each	Yes	Yes	Required

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

#	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	MPLS port, access and Layer 3 routing device bundled service at 1 Mbps	MPLS_GRT_B undle_1	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Mbps		N/A	\$550.00	Each	Yes	Yes	Required
2	MPLS port, access and Layer 3 routing device bundled service at 3 Mbps	MPLS_GRT_B undle_2	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Mbps		N/A	\$600.00	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	MPLS port, access and Layer 3 routing device bundled service at 4 Mbps	MPLS_GRT_Bundle_3	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Mbps		N/A	\$600.00	Each	Yes	Yes	Required
4	MPLS port, access and Layer 3 routing device bundled service at 5 Mbps	MPLS_GRT_Bundle_4	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Mbps		N/A	\$660.00	Each	Yes	Yes	Required
5	MPLS port, access and Layer 3 routing device bundled service at 7 Mbps	MPLS_GRT_Bundle_5	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Mbps		N/A	\$710.00	Each	Yes	Yes	Required
6	MPLS port, access and Layer 3 routing device bundled service at 9 Mbps	MPLS_GRT_Bundle_6	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Mbps		N/A	\$660.00	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	MPLS port, access and Layer 3 routing device bundled service at 10 Mbps	MPLS_GRT_Bundle_7	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Mbps		N/A	\$660.00	Each	Yes	Yes	Required
8	MPLS port, access and Layer 3 routing device bundled service at 12 Mbps	MPLS_GRT_Bundle_8	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 12 Mbps		N/A	\$820.00	Each	Yes	Yes	Required
9	MPLS port, access and Layer 3 routing device bundled service at 15 Mbps	MPLS_GRT_Bundle_9	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 15 Mbps		N/A	\$820.00	Each	Yes	Yes	Required
10	MPLS port, access and Layer 3 routing device bundled service at 20 Mbps	MPLS_GRT_Bundle_10	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 20 Mbps		N/A	\$820.00	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	MPLS port, access and Layer 3 routing device bundled service at 30 Mbps	MPLS_GRT_Bundle_11	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 30 Mbps		N/A	\$1,000.00	Each	Yes	Yes	Required
12	MPLS port, access and Layer 3 routing device bundled service at 40 Mbps	MPLS_GRT_Bundle_12	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 40 Mbps		N/A	\$1,000.00	Each	Yes	Yes	Required
13	MPLS port, access and Layer 3 routing device bundled service at 50 Mbps	MPLS_GRT_Bundle_13	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 50 Mbps		N/A	\$1,090.00	Each	Yes	Yes	Required
14	MPLS port, access and Layer 3 routing device bundled service at 60 Mbps	MPLS_GRT_Bundle_14	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 60 Mbps		N/A	\$1,620.00	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	MPLS port, access and Layer 3 routing device bundled service at 70 Mbps	MPLS_GRT_Bundle_15	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 70 Mbps		N/A	\$1,620.00	Each	Yes	Yes	Required
16	MPLS port, access and Layer 3 routing device bundled service at 80 Mbps	MPLS_GRT_Bundle_16	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 80 Mbps		N/A	\$1,620.00	Each	Yes	Yes	Required
17	MPLS port, access and Layer 3 routing device bundled service at 90 Mbps	MPLS_GRT_Bundle_17	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 90 Mbps		N/A	\$1,620.00	Each	Yes	Yes	Required
18	MPLS port, access and Layer 3 routing device bundled service at 100 Mbps	MPLS_GRT_Bundle_18	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 100 Mbps		N/A	\$1,710.00	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	MPLS port, access and Layer 3 routing device bundled service at 150 Mbps	MPLS_GRT_Bundle_19	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 150 Mbps		N/A	\$1,930.00	Each	Yes	Yes	Required
20	MPLS port, access and Layer 3 routing device bundled service at 200 Mbps	MPLS_GRT_Bundle_20	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 200 Mbps		N/A	\$2,200.00	Each	Yes	Yes	Required
21	MPLS port, access and Layer 3 routing device bundled service at 250 Mbps	MPLS_GRT_Bundle_21	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 250 Mbps		N/A	\$2,240.00	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	MPLS port, access and Layer 3 routing device bundled service at 300 Mbps	MPLS_GRT_Bundle_22	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 300 Mbps		N/A	\$3,030.00	Each	Yes	Yes	Required
23	MPLS port, access and Layer 3 routing device bundled service at 400 Mbps	MPLS_GRT_Bundle_23	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 400 Mbps		N/A	\$3,030.00	Each	Yes	Yes	Required
24	MPLS port, access and Layer 3 routing device bundled service at 500 Mbps	MPLS_GRT_Bundle_24	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 500 Mbps		N/A	\$3,030.00	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
25	MPLS port, access and Layer 3 routing device bundled service at 600 Mbps	MPLS_GRT_Bundle_25	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 600 Mbps		N/A	\$3,930.00	Each	Yes	Yes	Required
26	MPLS port, access and Layer 3 routing device bundled service at 700 Mbps	MPLS_GRT_Bundle_26	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 700 Mbps		N/A	\$3,930.00	Each	Yes	Yes	Required
27	MPLS port, access and Layer 3 routing device bundled service at 1 Gbps	MPLS_GRT_Bundle_27	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 1 Gbps		N/A	\$4,030.00	Each	Yes	Yes	Required
28	MPLS port, access and Layer 3 routing device bundled service at 2 Gbps	MPLS_GRT_Bundle_28	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 2 Gbps		N/A	\$8,720.00	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
29	MPLS port, access and Layer 3 routing device bundled service at 3 Gbps	MPLS_GRT_Bundle_29	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 3 Gbps		N/A	\$9,540.00	Each	Yes	Yes	Required
30	MPLS port, access and Layer 3 routing device bundled service at 4 Gbps	MPLS_GRT_Bundle_30	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 4 Gbps		N/A	\$9,310.00	Each	Yes	Yes	Required
31	MPLS port, access and Layer 3 routing device bundled service at 5 Gbps	MPLS_GRT_Bundle_31	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 5 Gbps		N/A	\$10,210.00	Each	Yes	Yes	Required
32	MPLS port, access and Layer 3 routing device bundled service at 6 Gbps	MPLS_GRT_Bundle_32	MPLS port, access and Layer 3 routing device bundled service at a minimum line rate of 6 Gbps		N/A	\$10,960.00	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
33	MPLS port, access and Layer 3 routing device bundled service at 7 Gbps	MPLS_GRT_Bundle_33	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 7 Gbps		N/A	\$10,960.00	Each	Yes	Yes	Required
34	MPLS port, access and Layer 3 routing device bundled service at 8 Gbps	MPLS_GRT_Bundle_34	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 8 Gbps		N/A	\$11,260.00	Each	Yes	Yes	Required
35	MPLS port, access and Layer 3 routing device bundled service at 9 Gbps	MPLS_GRT_Bundle_35	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 9 Gbps		N/A	\$11,260.00	Each	Yes	Yes	Required
36	MPLS port, access and Layer 3 routing device bundled service at 10 Gbps	MPLS_GRT_Bundle_36	MPLS port, access and Layer 3 routing device bundled service at minimum line rate of 10 Gbps		N/A	\$11,560.00	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
37	Out-of-band access to the managed layer 3 routing device	MPLS_GRT_Bundle_37	Out-of-band emergency access capability for emergency access to the managed layer 3 routing device.		N/A	\$50.00	Each	Yes	Yes	Required

## **20.2.10 Additional MPLS Services and Features**

### **Contractor's Description of Service:**

Devices and services listed in section 20.2.10 Additional MPLS Services and Features include cellular data connectivity hardware and data plans. This allows CALNET users to have internet-based VPN connectivity to sites that are either remote and MPLS services are not available or as a backup connection that allows the CALNET agency a non-wireline backup connection for MPLS network sites. Configuration of VPN connectivity can be done by the CALNET agency or by Granite as a managed service. Hardware listed includes building and mobile devices and configurations for flexibility of implementation options. An additional feature of 20.2.10 allows the paring of other services in additional CALNET categories to build a robust network infrastructure that is flexible and robust, such as SD-WAN.

### **Geographic Availability:**

Statewide

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 20.2.10 – Additional MPLS Services and Features**

#	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	1 GB -- Pooled Plan - Data, Hotspot, and Tablet	LTE_GRT_1		The 1GB pooled plan includes 1GB of data per month, which may be shared by all users on the account. Granite's Data, Hotspot, and Tablet Plan offers all 4 major US and multiple Canadian/International Mobile Operators available on one platform. Granite's price includes its dedicated Premier support team that helps our customers manage their data usage through Cross Carrier Pooling, Proactive alerts and the ability to customize billing and provide customized reports.	N/A	\$29.46	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	5 GB -- Pooled Plan - Data, Hotspot, and Tablet	LTE_GRT_2		The 5GB pooled plan includes 5GB of data per month, which may be shared by all users on the account. Granite's Data, Hotspot, and Tablet Plan offers all 4 major US and multiple Canadian/International Mobile Operators available on one platform. Granite's price includes its dedicated Premier support team that helps our customers manage their data usage through Cross Carrier Pooling, Proactive alerts and the ability to customize billing and provide customized reports.	N/A	\$58.93	Each	Yes	Yes	Required
3	NetCloud License Load	LTE_GRT_213		Factory Load NetCloud License file	\$26.02	N/A	Each	Yes	Yes	Required
4	Cat 4 LTE modem (for AER series, ARC CBA850, and COR series products with dock)	LTE_GRT_216		Cat 4 LTE modem (for AER series, ARC CBA850, and COR series products with dock)	\$227.63	N/A	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	LTE Advanced (Cat 6) modem (for AER1600/1650, 2100, AER3100/3150, CBA850, and COR series products with dock)	LTE_GRT_217		LTE Advanced (Cat 6) modem (for AER1600/1650, 2100, AER3100/3150, CBA850, and COR series products with dock)	\$365.85	N/A	Each	Yes	Yes	Required
6	LTE Advanced (600 Mbps) modem for AT&T/FirstNet	LTE_GRT_218		LTE Advanced (600 Mbps) modem for AT&T/FirstNet	\$447.15	N/A	Each	Yes	Yes	Required
7	LTE Advanced Pro (1200Mbps) modem upgrade for Branch. Includes AER2200 & AER1600 doors and 4 black antennas	LTE_GRT_219		LTE Advanced Pro (1200Mbps) modem upgrade for Branch. Includes AER2200 & AER1600 doors and 4 black antennas	\$487.80	N/A	Each	Yes	Yes	Required
8	LTE Advanced Pro (1200Mbps) modem upgrade for LTE Branch Adapter. Includes CBA850 door and 4 white antennas	LTE_GRT_220		LTE Advanced Pro (1200Mbps) modem upgrade for LTE Branch Adapter. Includes CBA850 door and 4 white antennas	\$487.80	N/A	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	LTE Advanced Pro (1200Mbps) modem upgrade for Mobile. Includes IBR1700 & COR Dock doors, no antennas	LTE_GRT_221		LTE Advanced Pro (1200Mbps) modem upgrade for Mobile. Includes IBR1700 & COR Dock doors, no antennas	\$487.80	N/A	Each	Yes	Yes	Required
10	LTE Advanced Pro (1200Mbps) modem upgrade for Branch. Includes AER2200 & AER1600 doors and 4 black antennas	LTE_GRT_222		LTE Advanced Pro (1200Mbps) modem upgrade for Branch. Includes AER2200 & AER1600 doors and 4 black antennas	\$487.80	N/A	Each	Yes	Yes	Required
11	LTE Advanced Pro (1200Mbps) modem upgrade for LTE Branch Adapter. Includes CBA850 door and 4 white antennas	LTE_GRT_223		LTE Advanced Pro (1200Mbps) modem upgrade for LTE Branch Adapter. Includes CBA850 door and 4 white antennas	\$487.80	N/A	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	LTE Advanced Pro (1200Mbps) modem upgrade for Mobile. Includes IBR1700 & COR Dock doors, no antennas	LTE_GRT_224		LTE Advanced Pro (1200Mbps) modem upgrade for Mobile. Includes IBR1700 & COR Dock doors, no antennas	\$487.80	N/A	Each	Yes	Yes	Required
13	SIM, Verizon 2FF can be activated on Verizon Retail or VPP account	LTE_GRT_225		SIM, Verizon 2FF can be activated on Verizon Retail or VPP account	\$8.13	N/A	Each	Yes	Yes	Required
14	SIM, AT&T 2FF AT&T Retail or AT&T APEX (Partner Exchange) rate plans. Not compatible with AT&T IoT/Jasper or FirstNet platform based accounts	LTE_GRT_226		SIM, AT&T 2FF AT&T Retail or AT&T APEX (Partner Exchange) rate plans. Not compatible with AT&T IoT/Jasper or FirstNet platform based accounts	\$8.13	N/A	Each	Yes	Yes	Required
15	SIM, T-Mobile 2FF Retail Triple Punch SIM SKU ZZZ260R060	LTE_GRT_227		SIM, T-Mobile 2FF Retail Triple Punch SIM SKU ZZZ260R060	\$8.13	N/A	Each	Yes	Yes	Required
16	SIM, Sprint SIMGLW106Q 2FF Retail for LP6	LTE_GRT_228		SIM, Sprint SIMGLW106Q 2FF Retail for LP6	\$8.13	N/A	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	LTE MIMO 2x2 antenna, indoor/outdoor	LTE_GRT_229		LTE MIMO 2x2 antenna, indoor/outdoor	\$121.94	N/A	Each	Yes	Yes	Required
18	10.5dBi 700 MHz - 2700 MHz wide band directional antenna (Yagi/Log-Periodic) for outside mounting	LTE_GRT_230		10.5dBi 700 MHz - 2700 MHz wide band directional antenna (Yagi/Log-Periodic) for outside mounting	\$81.29	N/A	Each	Yes	Yes	Required
19	Omni directional antenna, indoor/outdoor	LTE_GRT_231		Omni directional antenna, indoor/outdoor	\$121.94	N/A	Each	Yes	Yes	Required
20	12" mag-mount antenna with SMA male connector, 12.5 foot cable	LTE_GRT_232		12" mag-mount antenna with SMA male connector, 12.5 foot cable	\$36.58	N/A	Each	Yes	Yes	Required
21	4" Mini mag-mount antennas with SMA male connector, 12.5 foot cable	LTE_GRT_233		4" Mini mag-mount antennas with SMA male connector, 12.5 foot cable	\$24.38	N/A	Each	Yes	Yes	Required
22	GPS-GLONASS screw mount antenna with 3M cable	LTE_GRT_234		GPS-GLONASS screw mount antenna with 3M cable	\$81.29	N/A	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	GPS-GLONASS mag-mount antenna with 3M cable	LTE_GRT_235		GPS-GLONASS mag-mount antenna with 3M cable	\$28.45	N/A	Each	Yes	Yes	Required
24	3-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) screw mount antenna with 3M cables	LTE_GRT_236		3-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) screw mount antenna with 3M cables	\$304.87	N/A	Each	Yes	Yes	Required
25	3-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) adhesive mount antenna with 2M cables	LTE_GRT_237		3-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) adhesive mount antenna with 2M cables	\$146.33	N/A	Each	Yes	Yes	Required
26	5-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) & two WiFi 2.4/5GHz WiFi screw mount antenna with 3M cables	LTE_GRT_238		5-in-1 GPS-GLONASS & two cellular (3G/4G/LTE) & two WiFi 2.4/5GHz WiFi screw mount antenna with 3M cables	\$325.20	N/A	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
27	Low profile 5-in-1 MIMO LTE, MIMO WiFi (2.4/5Ghz), & GPS screw mount antenna with 5M cables	LTE_GRT_239		Low profile 5-in-1 MIMO LTE, MIMO WiFi (2.4/5Ghz), & GPS screw mount antenna with 5M cables	\$325.20	N/A	Each	Yes	Yes	Required
28	White, 700MHz-2.7 GHz 3G/4G/LTE 2dBi/3dBi antenna with SMA connector (1x)	LTE_GRT_240		White, 700MHz-2.7 GHz 3G/4G/LTE 2dBi/3dBi antenna with SMA connector (1x)	\$12.19	N/A	Each	Yes	Yes	Required
29	Black, 700MHz-2.7 GHz LTE/4G/3G 2dBi/3dBi 5" antenna with SMA connector (1x)	LTE_GRT_241		Black, 700MHz-2.7 GHz LTE/4G/3G 2dBi/3dBi 5" antenna with SMA connector (1x)	\$11.37	N/A	Each	Yes	Yes	Required
30	Mini black, 600MHz-2.7 GHz LTE/4G/3G 4.5" 2/3 dBi antenna with SMA connector (1x)	LTE_GRT_242		Mini black, 600MHz-2.7 GHz LTE/4G/3G 4.5" 2/3 dBi antenna with SMA connector (1x)	\$10.56	N/A	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
31	Black, Universal 600MHz-6GHz 3G/4G/LTE 2dBi/3dBi 6" antenna with SMA connector (1x)	LTE_GRT_243		Black, Universal 600MHz-6GHz 3G/4G/LTE 2dBi/3dBi 6" antenna with SMA connector (1x)	\$12.19	N/A	Each	Yes	Yes	Required
32	White, Universal 600MHz-6GHz 3G/4G/LTE 2dBi/3dBi 6" antenna with SMA connector (1x)	LTE_GRT_244		White, Universal 600MHz-6GHz 3G/4G/LTE 2dBi/3dBi 6" antenna with SMA connector (1x)	\$12.19	N/A	Each	Yes	Yes	Required
33	White, 600MHz-2.7 GHz LTE/4G/3G 4.5" 2/3 dBi antenna with SMA connector (1x) CBA550 replacement	LTE_GRT_245		White, 600MHz-2.7 GHz LTE/4G/3G 4.5" 2/3 dBi antenna with SMA connector (1x) CBA550 replacement	\$10.56	N/A	Each	Yes	Yes	Required
34	Dual-band 2.4/5.0 GHz external WiFi antenna for AER3100, AER2100, IBR900, IBR1100 (single antenna)	LTE_GRT_246		Dual-band 2.4/5.0 GHz external WiFi antenna for AER3100, AER2100, IBR900, IBR1100 (single antenna)	\$12.19	N/A	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
35	Car charger for 12V product for CBA750B, CBA850, MBR1400 and MBR1200B	LTE_GRT_247		Car charger for 12V product for CBA750B, CBA850, MBR1400 and MBR1200B	\$20.32	N/A	Each	Yes	Yes	Required
36	Vehicle power adapter for COR	LTE_GRT_248		Vehicle power adapter for COR	\$20.32	N/A	Each	Yes	Yes	Required
37	Standard replacement 3A power supply for AER1600/AER1650 /CBA850	LTE_GRT_249		Standard replacement 3A power supply for AER1600/AER1650/CBA850	\$24.38	N/A	Each	Yes	Yes	Required
38	COR IBR1100/IBR1150 and IBR900/IBR950 extended temperature (-30C to 70C) power supply (line cord not included)	LTE_GRT_250		COR IBR1100/IBR1150 and IBR900/IBR950 extended temperature (-30C to 70C) power supply (line cord not included)	\$56.90	N/A	Each	Yes	Yes	Required
39	AER2200, AER31x0 54V 2.22A (60W PoE budget) power supply (C14 line cord not included)	LTE_GRT_251		AER2200, AER31x0 54V 2.22A (60W PoE budget) power supply (C14 line cord not included)	\$81.29	N/A	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
40	AER2200 high power supply for up to 4 ports of PoE+ .at (30W) power (120W PoE budget) (C14 line cord not included)	LTE_GRT_252		AER2200 high power supply for up to 4 ports of PoE+ .at (30W) power (120W PoE budget) (C14 line cord not included)	\$121.94	N/A	Each	Yes	Yes	Required
41	COR IBR1700, IBR900/IBR950, IBR600B/IBR650B, IBR600C/IBR650C power supply for North America (-20C to 60C)	LTE_GRT_253		COR IBR1700, IBR900/IBR950, IBR600B/IBR650B, IBR600C/IBR650C power supply for North America (-20C to 60C)	\$20.32	N/A	Each	Yes	Yes	Required
42	COR IBR1700, IBR900/IBR950 power supply includes US, EU, UK, AU Adapter (-20C to 60C)	LTE_GRT_254		COR IBR1700, IBR900/IBR950 power supply includes US, EU, UK, AU Adapter (-20C to 60C)	\$20.32	N/A	Each	Yes	Yes	Required
43	PoE Injector (powers AP22, CBA850) includes US line cord (C6)	LTE_GRT_255		PoE Injector (powers AP22, CBA850) includes US line cord (C6)	\$32.51	N/A	Each	Yes	Yes	Required
44	US line cord for COR extended temperature power supplies (C8)	LTE_GRT_256		US line cord for COR extended temperature power supplies (C8)	\$8.12	N/A	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
45	US line cord for AER3100/AER3150 , AER2200 high power 60W & 120W PoE budget, power supplies (C14)	LTE_GRT_257		US line cord for AER3100/AER3150, AER2200 high power 60W & 120W PoE budget, power supplies (C14)	\$8.12	N/A	Each	Yes	Yes	Required
46	3 meter power and GPIO cable (direct wire) for IBR1700, IBR11x0, IBR9x0, IBR6x0, IBR6x0B, IBR6x0C	LTE_GRT_258		3 meter power and GPIO cable (direct wire) for IBR1700, IBR11x0, IBR9x0, IBR6x0, IBR6x0B, IBR6x0C	\$11.78	N/A	Each	Yes	Yes	Required
47	9 wire GPIO cable for IBR6x0B, IBR6x0C and IBR9x0. Adds 4 GPIO, 2nd ignition sense, redundant power	LTE_GRT_259		9 wire GPIO cable for IBR6x0B, IBR6x0C and IBR9x0. Adds 4 GPIO, 2nd ignition sense, redundant power	\$40.64	N/A	Each	Yes	Yes	Required
48	AER rack mount flexible cellular antenna lead for 2nd modem or active GPS (1x)	LTE_GRT_260		AER rack mount flexible cellular antenna lead for 2nd modem or active GPS (1x)	\$16.25	N/A	Each	Yes	Yes	Required
49	Serial DB9 to GPIO cable, 3 meters	LTE_GRT_261		Serial DB9 to GPIO cable, 3 meters	\$14.63	N/A	Each	Yes	Yes	Required
50	RJ45 rollover serial console cable 7ft	LTE_GRT_262		RJ45 rollover serial console cable 7ft	\$8.12	N/A	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
51	RJ45 rollover serial console cable 14ft	LTE_GRT_263		RJ45 rollover serial console cable 14ft	\$11.37	N/A	Each	Yes	Yes	Required
52	Demo 2x10 GPIO cable for COR Extensibility Dock	LTE_GRT_264		Demo 2x10 GPIO cable for COR Extensibility Dock	\$40.64	N/A	Each	Yes	Yes	Required
53	COR extensibility port to serial cable	LTE_GRT_265		COR extensibility port to serial cable	\$65.03	N/A	Each	Yes	Yes	Required
54	OBD-II adapter kit for IBR1700 (includes one OBD-II adapter and one 15 foot Male/Male Null Modem DB9 serial cable)	LTE_GRT_266		OBD-II adapter kit for IBR1700 (includes one OBD-II adapter and one 15 foot Male/Male Null Modem DB9 serial cable)	\$202.44	N/A	Each	Yes	Yes	Required
55	NEMA 4X enclosure, 12x10x6in, for ARC and COR	LTE_GRT_267		NEMA 4X enclosure, 12x10x6in, for ARC and COR	\$182.92	N/A	Each	Yes	Yes	Required
56	Steel backplane, 12x10in, for ARC and COR NEMA enclosure	LTE_GRT_268		Steel backplane, 12x10in, for ARC and COR NEMA enclosure	\$24.38	N/A	Each	Yes	Yes	Required
57	Strain relief connector with nut, for enclosure, 0.375-0.5in	LTE_GRT_269		Strain relief connector with nut, for enclosure, 0.375-0.5in	\$16.25	N/A	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
58	DIN rail mounting bracket for IBR1100/IBR1150/IBR200	LTE_GRT_270		DIN rail mounting bracket for IBR1100/IBR1150/IBR200	\$24.38	N/A	Each	Yes	Yes	Required
59	CBA850 wall / ceiling bracket	LTE_GRT_271		CBA850 wall / ceiling bracket	\$36.58	N/A	Each	Yes	Yes	Required
60	Barrel to 4-pin power adapter (for COR products)	LTE_GRT_272		Barrel to 4-pin power adapter (for COR products)	\$6.50	N/A	Each	Yes	Yes	Required
61	Rollover adapter for RJ45 Ethernet Cable M/F	LTE_GRT_273		Rollover adapter for RJ45 Ethernet Cable M/F	\$9.75	N/A	Each	Yes	Yes	Required
62	Mag mount kit for IBR11x0, IBR9x0, IBR6x0B, IBR350, IBR1100 Dual-Modem Dock, COR Extensibility Dock (includes 4 ring magnets, 4 M4 screws and 4 nuts)	LTE_GRT_274		Mag mount kit for IBR11x0, IBR9x0, IBR6x0B, IBR350, IBR1100 Dual-Modem Dock, COR Extensibility Dock (includes 4 ring magnets, 4 M4 screws and 4 nuts)	\$12.19	N/A	Each	Yes	Yes	Required
63	Dual-modem dock for IBR1100/IBR1150 series routers	LTE_GRT_275		Dual-modem dock for IBR1100/IBR1150 series routers	\$105.68	N/A	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
64	COR extensibility dock for IBR600B/IBR650B, IBR600C/IBR650C and IBR900/IBR950 series routers	LTE_GRT_276		COR extensibility dock for IBR600B/IBR650B, IBR600C/IBR650C and IBR900/IBR950 series routers	\$146.33	N/A	Each	Yes	Yes	Required
65	Rack-mount kit for AER2200 (includes 2 wing brackets and 8 M4 screws)	LTE_GRT_277		Rack-mount kit for AER2200 (includes 2 wing brackets and 8 M4 screws)	\$28.45	N/A	Each	Yes	Yes	Required
66	Rack-mount kit for IBR1700 (includes 2 wing brackets and 4 M4 screws)	LTE_GRT_278		Rack-mount kit for IBR1700 (includes 2 wing brackets and 4 M4 screws)	\$28.45	N/A	Each	Yes	Yes	Required
67	Rack-mount kit for CR4250 (includes 2 wing brackets and 8 M3x5 screws)	LTE_GRT_279		Rack-mount kit for CR4250 (includes 2 wing brackets and 8 M3x5 screws)	\$56.90	N/A	Each	Yes	Yes	Required
68	Rugged, enterprise-class, router with embedded LTE Advanced (Cat 6) modem and WiFi for all North American carriers	LTE_GRT_280		Rugged, enterprise-class, router with embedded LTE Advanced (Cat 6) modem and WiFi for all North American carriers	\$731.70	N/A	Each	Yes	Yes	Required

### 20.3.2.1 Extended Demarcation Wiring Services

#### Contractor's Description of Service:

Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment will include 300 feet or less of cable as well as feature specific hardware. Associated troubleshooting, testing, and labeling is included.

#### Geographic Availability:

Statewide

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 20.3.2.1 – 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	NI_GRT_1	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.	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$373.17	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	NI_GRT_2	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.	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$466.94	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
3	Extended Demarcation - Copper – Sunday and Holiday Hours	NI_GRT_3	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.	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$815.52	N/A	Installation	No	No	Required

4	Extended Demarcation - Copper 25 Pair – Regular Hours	NI_GRT_4	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$2,326.43	N/A	Installation	No	No	Required
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#	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
			testing, and labeling.							

5	Extended Demarcation - Copper 25 Pair – Overtime Hours	NI_GRT_5	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$2,626.50	N/A	Installation	No	No	Required
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#	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
			testing, and labeling.							

6	Extended Demarcation - Copper 25 Pair – Sunday and Holiday Hours	NI_GRT_6	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$2,956.32	N/A	Installation	No	No	Required
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#	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
			testing, and labeling.							

7	Extended Demarcation - Optical Fiber Link – Regular Hours	NI_GRT_7	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$2,724.64	N/A	Installation	No	No	Required
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#	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
			testing and labeling.							

8	Extended Demarcation - Optical Fiber Link – Overtime Hours	NI_GRT_8	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$3,212.25	N/A	Installation	No	No	Required
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#	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
			testing and labeling.							

9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	NI_GRT_9	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,	To provide this service, Granite assumes customer has adequate pathways. Programming of electronic equipment is not included.	\$3,729.60	N/A	Installation	No	No	Required
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#	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
			testing and labeling.							

### 20.3.3 Services Related Hourly Support

#### Contractor's Description of Service:

A Field Technician properly trained to an expert level for the service will be 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

#### Geographic Availability:

Statewide

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 20.3.3 – 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	NI_GRT_10	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.	Includes labor only and accounts for time from dispatch to job completion.	\$75.02	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	NI_GRT_11	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.	Includes labor only and accounts for time from dispatch to job completion.	\$112.52	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	NI_GRT_12	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.	Includes labor only and accounts for time from dispatch to job completion.	\$150.03	N/A	Hour	Yes	No	Required