



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
Master Agreement

Order Date: 2017-10-03

CORRECT ORDER NUMBER
 MUST APPEAR ON ALL PACKAGES,
 INVOICES, AND SHIPPING PAPERS.
 QUESTIONS CONCERNING THIS
 ORDER SHOULD BE DIRECTED TO
 THE DEPARTMENT CONTACT.

| | |
|--|--|
| Order Number: CMA 0212 0212 SWC0000000002 | Procurement Folder: 198422 |
| Document Name: Change Order # 2 Telecommunications Transport | Reason for Modification: Change Order 2 to correct pricing, clarify contract language, and add zero-dollar services. |
| Document Description: Telecommunications Transport - Change Order # 2 | |
| Procurement Type: Central Master Agreement | |
| Buyer Name: Stephanie L Gale | |
| Telephone: (304) 558-8801 | |
| Email: stephanie.l.gale@wv.gov | |
| Shipping Method: Best Way | Effective Start Date: 2016-07-01 |
| Free on Board: FOB Dest, Freight Prepaid | Effective End Date: 2019-06-30 |

| VENDOR | DEPARTMENT CONTACT |
|---|--|
| Vendor Customer Code: 000000190764 VERIZON BUSINESS PO BOX 660794 DALLAS TX 752660794 US Vendor Contact Phone: (800) 334-7692 Extension: Discount Percentage: 0.0000 Discount Days: 0 | Requestor Name: Andrew Lore Requestor Phone: (304) 957-8267 Requestor Email: andrew.c.lore@wv.gov |

| INVOICE TO | SHIP TO |
|---|---|
| VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER No City WV 99999 US | STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US |

AGENCY COPY

| | |
|---------------------------|-----------------|
| Total Order Amount | Open End |
|---------------------------|-----------------|

W Hall 10/11/17

| | | |
|---|---|---|
| PURCHASING DIVISION AUTHORIZATION SIGNED BY: <i>Linda Harper</i> DATE: <i>10-6-17</i> ELECTRONIC SIGNATURE ON FILE | ATTORNEY GENERAL APPROVAL AS TO FORM SIGNED BY: <i>[Signature]</i> DATE: <i>[Signature]</i> ELECTRONIC SIGNATURE ON FILE | ENCUMBRANCE CERTIFICATION SIGNED BY: <i>Beverly Tolson</i> DATE: <i>[Signature]</i> ELECTRONIC SIGNATURE ON FILE |
|---|---|---|

10-11-17

Extended Description:

Change Order # 2

Change Order # 2 is issued to add language to Pricing Page to accurately reconcile invoices, correct pricing inadvertently changed in Change Order #1, and add zero-dollar services, according to all terms, conditions, and specifications contained in the original contract.

All provisions of the original Contract and subsequent Change Orders not modified herein shall remain in full force and effect.

Effective 10/1/2017

| Line | Commodity Code | Manufacturer | Model No | Unit | Unit Price |
|------|---------------------|-------------------|----------|------|------------|
| 1 | 81161700 | | | EA | \$0.000000 |
| | Service From | Service To | | | |
| | | | | | |

Commodity Line Description: Telecommunications Data Transport Services

Extended Description:

Telecommunications Data Transport Services

September 14, 2017

Office of Technology
Attn: Justin McAllister
1900 Kanawha Blvd E
Charleston, WV 25305

RE: Telecommunications Transport Master Agreement (CMA SWC*02) Change request

Dear Mr. McAllister:

Verizon requests an administrative change order to clarify rate element descriptions for linking the invoice terminology to the contract terminology, to add service option language and to correct two rates – Extension of Circuit demarcation and Expedite Charge. These changes will provide for increased accuracy and efficiency in the State's auditing of invoices for services ordered from the contract. A onetime adjustment will be made back to the installation date to reflect the below components that will now be zero rate. There is no cost change associated with these revisions.

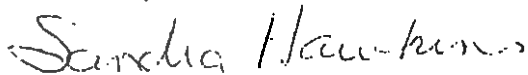
In support of this change request, Verizon provides the following:

- **Local Loop, billing description on price sheet, refers to a portion of a transport data circuit. All circuits offered in the contract contain a local loop component. The term 'Local Loop' should be added to the pricing sheet for each type of data circuit offered (Private Line, Switched Ethernet, Frame Relay, ATM and MPLS).**
- **Port Recurring refers to a PIP Dedicated Standard Port. 'Port Recurring' terminology should be added to the pricing sheet in the PIP Dedicated Standard Port section.**
- **EF Real Time, QOS/COS, and Gold Car all mean the same thing – the pricing sheet should be revised to include and link these terms.**
- **Multiple Virtual Routing and Forwarding (VRF) is an optional service that is required to support the multiple VPNs for state agencies needing more than one routed connection or separation of routing domains. This optional service was identified during the post-award engineering design meetings with the WVOT. This zero-rated service should be added to the pricing sheet.**
- **Standard Select Reporting is an optional service that is included in the MNS (Monitor/Notify) service. This optional service was identified during the post-award engineering design meetings with the WVOT. This zero-rated service should be added to the pricing sheet.**
- **As a result of the initial post-award design meeting for the WV Libraries Commission, there is an additional EF Real Time/QOS/COS/Gold Car speed of zero (0) identified to drive efficiencies rated at zero cost. This description and \$0 rate should be added to the pricing sheet.**

Finally, the published contract on the Purchasing Division's website contains inaccurate prices for 'Extension of Circuit demarcation' and 'Expedite Charge'. The original contracts rates were inadvertently altered in Change Order 1, and this Change Order will correct those rates to reflect the original agreement. The Extension of Circuit demarcation is \$150 per hour and the expedite Charge (per request) is \$1500. These corrections are included in the pricing sheet and as a result of these changes the overall dollar value of the contract does not increase

Verizon commits to provide the best service possible. I look forward to continuing our business relationship and building an even stronger partnership with the State of West Virginia

Sincerely,



Sandra Hawkins
Senior Account Manager
Authorized Contact
Verizon
304-356-3395
sandra.k.hawkins@verizon.com

State of WV - SWC000000002
Telecommunications Transport Contract
Central Master Agreement
Attachment C: COST SHEET
CHANGE ORDER #2

| Description of Service | Billing Descriptions | Monthly Recurring Cost (MRC) | Non-Recurring Cost (NRC) |
|--|---------------------------|------------------------------|--------------------------|
| Priced as Ethernet Access Local Loop (EA) to MPLS replacing Private Line | | | |
| Private Line DS0 (Priced as 1Mbps EA to MPLS - Port Required) | Local loop DS0 | \$383.00 | \$0.00 |
| Private Line DS1 (Priced as 3Mbps EA to MPLS - Port Required) | Local loop DS1 | \$338.00 | \$0.00 |
| Private Line DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local loop DS3 | \$810.00 | \$0.00 |
| Priced as Ethernet Access Local Loop (EA) to MPLS replacing Switched Ethernet | | | |
| Switched Ethernet 1Mbps (Priced as EA to MPLS - Port Required) | Local Loop 1Mbps | \$383.00 | \$0.00 |
| Switched Ethernet 3Mbps (Priced as EA to MPLS - Port Required) | Local Loop 3Mbps | \$338.00 | \$0.00 |
| Switched Ethernet 5Mbps (Priced as EA to MPLS - Port Required) | Local Loop 5Mbps | \$372.00 | \$0.00 |
| Switched Ethernet 10Mbps (Priced as EA to MPLS - Port Required) | Local Loop 10Mbps | \$422.00 | \$0.00 |
| Switched Ethernet 20Mbps (Priced as EA to MPLS - Port Required) | Local Loop 20Mbps | \$538.00 | \$0.00 |
| Switched Ethernet 25Mbps (Priced as EA to MPLS - Port Required) | Local Loop 25Mbps | \$857.00 | \$0.00 |
| Switched Ethernet 50Mbps (Priced as EA to MPLS - Port Required) | Local Loop 50Mbps | \$810.00 | \$0.00 |
| Switched Ethernet 75Mbps (Priced as EA to MPLS - Port Required) | Local Loop 75Mbps | \$935.00 | \$0.00 |
| Switched Ethernet 100Mbps (Priced as EA to MPLS - Port Required) | Local Loop 100Mbps | \$935.00 | \$0.00 |
| Switched Ethernet 150Mbps (Priced as EA to MPLS - Port Required) | Local Loop 150Mbps | \$1,068.00 | \$0.00 |
| Switched Ethernet 200Mbps (Priced as EA to MPLS - Port Required) | Local Loop 200Mbps | \$1,068.00 | \$0.00 |
| Switched Ethernet 250Mbps (Priced as EA to MPLS - Port Required) | Local Loop 250Mbps | \$1,103.00 | \$0.00 |
| Switched Ethernet 300Mbps (Priced as EA to MPLS - Port Required) | Local Loop 300Mbps | \$1,103.00 | \$0.00 |
| Switched Ethernet 350Mbps (Priced as EA to MPLS - Port Required) | Local Loop 350Mbps | \$1,157.00 | \$0.00 |
| Switched Ethernet 450Mbps (Priced as EA to MPLS - Port Required) | Local Loop 450Mbps | \$1,202.00 | \$0.00 |
| Switched Ethernet 500Mbps (Priced as EA to MPLS - Port Required) | Local Loop 500Mbps | \$1,202.00 | \$0.00 |
| Switched Ethernet 1Gbps (Priced as EA to MPLS - Port Required) | Local Loop 1Gbps | \$1,334.00 | \$0.00 |
| Switched Ethernet 2Gbps (Priced as EA to MPLS - Port Required) | Local Loop 2Gbps | \$1,947.00 | \$0.00 |
| Switched Ethernet 3Gbps (Priced as EA to MPLS - Port Required) | Local Loop 3Gbps | \$2,298.00 | \$0.00 |
| Switched Ethernet 4Gbps (Priced as EA to MPLS - Port Required) | Local Loop 4Gbps | \$2,705.00 | \$0.00 |
| Switched Ethernet 5Gbps (Priced as EA to MPLS - Port Required) | Local Loop 5Gbps | \$3,181.00 | \$0.00 |
| Switched Ethernet 6Gbps (Priced as EA to MPLS - Port Required) | Local Loop 6Gbps | \$3,737.00 | \$0.00 |
| Switched Ethernet 7Gbps (Priced as EA to MPLS - Port Required) | Local Loop 7Gbps | \$4,387.00 | \$0.00 |
| Switched Ethernet 8Gbps (Priced as EA to MPLS - Port Required) | Local Loop 8Gbps | \$5,149.00 | \$0.00 |
| Switched Ethernet 9Gbps (Priced as EA to MPLS - Port Required) | Local Loop 9Gbps | \$6,042.00 | \$0.00 |
| Switched Ethernet 10Gbps (Priced as EA to MPLS - Port Required) | Local Loop 10Gbps | \$7,090.00 | \$0.00 |
| Priced as Ethernet Access Local Loop (EA) to MPLS replacing Frame Relay | | | |
| Frame Relay 64K (Priced as 1Mbps EA to MPLS - Port Required) | Local Loop 64K 1Mbps | \$383.00 | \$0.00 |
| Frame Relay 256K (Priced as 1Mbps EA to MPLS - Port Required) | Local Loop 256K 1Mbps | \$383.00 | \$0.00 |
| Frame Relay 512K (Priced as 1Mbps EA to MPLS - Port Required) | Local Loop 512K 1Mbps | \$383.00 | \$0.00 |
| Frame Relay T1 (Priced as 3Mbps EA to MPLS - Port Required) | Local loop T-1 3Mbps | \$338.00 | \$0.00 |
| Multilink Bonded T1s (2) (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop T1s (2) 3Mbps | \$338.00 | \$0.00 |
| Multilink Bonded T1s (3) (Priced as 5Mbps EA to MPLS - Port Required) | Local Loop T1s (3) 5Mbps | \$372.00 | \$0.00 |
| Multilink Bonded T1s (4) (Priced as 10Mbps EA to MPLS - Port Required) | Local Loop T1s (4) 10Mbps | \$422.00 | \$0.00 |
| Multilink Bonded T1s (5) (Priced as 10Mbps EA to MPLS - Port Required) | Local Loop T1s (5) 10Mbps | \$422.00 | \$0.00 |
| Multilink Bonded T1s (6) (Priced as 10Mbps EA to MPLS - Port Required) | Local Loop T1s (6) 10Mbps | \$422.00 | \$0.00 |
| Frame Relay 3Mbps (Priced as 3Mbps EA to MPLS - Port Required) | Local loop 3Mbps 3Mbps | \$338.00 | \$0.00 |
| Frame Relay 6Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 6Mbps 10Mbps | \$422.00 | \$0.00 |
| Frame Relay 9Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 9Mbps 10Mbps | \$422.00 | \$0.00 |

CHANGE ORDER #2

| | | | |
|--|-----------------------|----------|--------|
| Frame Relay DS0 (Priced as 1Mbps EA to MPLS - Port Required) | Local Loop DS0 1Mbps | \$383.00 | \$0.00 |
| Frame Relay DS1 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop DS1 3Mbps | \$338.00 | \$0.00 |
| Fractional Frame Relay DS1 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop DS1 3Mbps | \$338.00 | \$0.00 |
| Frame Relay DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| Fractional Frame Relay DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |

Priced as Ethernet Access Local Loop (EA) to MPLS (Porting ATM)

| | | | |
|--|--------------------------|------------|--------|
| ATM T1 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop T-1 3Mbps | \$338.00 | \$0.00 |
| ATM 3Mbps (Priced as 3Mbps EA to MPLS - Port Required) | Local loop 3Mbps 3Mbps | \$338.00 | \$0.00 |
| ATM 6Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 6Mbps 10Mbps | \$422.00 | \$0.00 |
| ATM 9Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 9Mbps 10Mbps | \$422.00 | \$0.00 |
| ATM 12Mbps (Priced as 20Mbps EA to MPLS - Port Required) | Local loop 12Mbps 20Mbps | \$538.00 | \$0.00 |
| ATM DS1 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop DS1 3Mbps | \$338.00 | \$0.00 |
| ATM DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| ATM Fractional DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| ATM OC3 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop OC3 3Mbps | \$338.00 | \$0.00 |
| ATM OC12 (Priced as 450Mbps EA to MPLS - Port Required) | Local Loop OC12 450Mbps | \$1,202.00 | \$0.00 |
| ATM OC48 (Priced as 3000Mbps EA to MPLS - Port Required) | Local Loop OC48 3000Mbps | \$2,298.00 | \$0.00 |

Ethernet Access Local Loop (EA) to MPLS

| | | | |
|--|--------------------------|------------|--------|
| MPLS P2P T1 (Priced as 3Mbps EA to MPLS - Port Required) | Local loop T-1 3Mbps | \$338.00 | \$0.00 |
| MPLS P2P DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| MPLS Frame Relay 64K (Priced as 1Mbps EA to MPLS - Port Required) | Local Loop 64K 1Mbps | \$383.00 | \$0.00 |
| MPLS Frame Relay T1 (Priced as 1.55Mbps T-1 to MPLS - Port Required) | Local Loop T1 | \$456.00 | \$0.00 |
| MPLS Frame Relay DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| MPLS ATM T1 (Priced as 3Mbps EA to MPLS - Port Required) | Local loop T-1 3Mbps | \$338.00 | \$0.00 |
| MPLS ATM 3Mbps (Priced as 3Mbps EA to MPLS - Port Required) | Local loop 3Mbps 3Mbps | \$338.00 | \$0.00 |
| MPLS ATM 6Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 6Mbps 10Mbps | \$422.00 | \$0.00 |
| MPLS ATM 9Mbps (Priced as 10Mbps EA to MPLS - Port Required) | Local loop 9Mbps 10Mbps | \$422.00 | \$0.00 |
| MPLS ATM 12Mbps (Priced as 20Mbps EA to MPLS - Port Required) | Local loop 12Mbps 20Mbps | \$538.00 | \$0.00 |
| MPLS ATM DS3 (Priced as 50Mbps EA to MPLS - Port Required) | Local Loop DS3 50Mbps | \$810.00 | \$0.00 |
| MPLS ATM OC3 (Priced as 3Mbps EA to MPLS - Port Required) | Local Loop OC3 3Mbps | \$338.00 | \$0.00 |
| MPLS Ethernet 1Mbps (Port Required) | Local Loop 1Mbps | \$383.00 | \$0.00 |
| MPLS Ethernet 3Mbps (Port Required) | Local Loop 3Mbps | \$338.00 | \$0.00 |
| MPLS Ethernet 5Mbps (Port Required) | Local Loop 5Mbps | \$372.00 | \$0.00 |
| MPLS Ethernet 10Mbps (Port Required) | Local Loop 10Mbps | \$422.00 | \$0.00 |
| MPLS Ethernet 20Mbps (Port Required) | Local Loop 20Mbps | \$538.00 | \$0.00 |
| MPLS Ethernet 25Mbps (Port Required) | Local Loop 25Mbps | \$810.00 | \$0.00 |
| MPLS Ethernet 75Mbps (Port Required) | Local Loop 50Mbps | \$935.00 | \$0.00 |
| MPLS Ethernet 100Mbps (Port Required) | Local Loop 75Mbps | \$935.00 | \$0.00 |
| MPLS Ethernet 150Mbps (Port Required) | Local Loop 100Mbps | \$1,068.00 | \$0.00 |
| MPLS Ethernet 200Mbps (Port Required) | Local Loop 150Mbps | \$1,068.00 | \$0.00 |
| MPLS Ethernet 250Mbps (Port Required) | Local Loop 200Mbps | \$1,103.00 | \$0.00 |
| MPLS Ethernet 300Mbps (Port Required) | Local Loop 250Mbps | \$1,103.00 | \$0.00 |
| MPLS Ethernet 350Mbps (Port Required) | Local Loop 300Mbps | \$1,157.00 | \$0.00 |
| MPLS Ethernet 400Mbps (Port Required) | Local Loop 350Mbps | \$1,157.00 | \$0.00 |
| MPLS Ethernet 450Mbps (Port Required) | Local Loop 450Mbps | \$1,202.00 | \$0.00 |
| MPLS Ethernet 500Mbps (Port Required) | Local Loop 500Mbps | \$1,202.00 | \$0.00 |
| MPLS Ethernet 1Gbps (Port Required) | Local Loop 1Gbps | \$1,334.00 | \$0.00 |
| MPLS Ethernet 2Gbps (Port Required) | Local Loop 2Gbps | \$1,947.00 | \$0.00 |
| MPLS Ethernet 3Gbps (Port Required) | Local Loop 3Gbps | \$2,298.00 | \$0.00 |
| MPLS Ethernet 4Gbps (Port Required) | Local Loop 4Gbps | \$2,705.00 | \$0.00 |
| MPLS Ethernet 5Gbps (Port Required) | Local Loop 5Gbps | \$3,181.00 | \$0.00 |
| MPLS Ethernet 6Gbps (Port Required) | Local Loop 6Gbps | \$3,737.00 | \$0.00 |
| MPLS Ethernet 7Gbps (Port Required) | Local Loop 7Gbps | \$4,387.00 | \$0.00 |
| MPLS Ethernet 8Gbps (Port Required) | Local Loop 8Gbps | \$5,149.00 | \$0.00 |
| MPLS Ethernet 9Gbps (Port Required) | Local Loop 9Gbps | \$6,042.00 | \$0.00 |
| MPLS Ethernet 10Gbps (Port Required) | Local Loop 10Gbps | \$7,090.00 | \$0.00 |

PIP Dedicated Standard Port - Port Recurring QOS/COS can be included here or indicated in the next section.

| | | | |
|-----------------|----------------------|---------|--------|
| Ethernet 1 Mbps | Port Recurring 1Mbps | \$65.00 | \$0.00 |
|-----------------|----------------------|---------|--------|

CHANGE ORDER #2

| | | | |
|--------------------|-------------------------|-------------|--------|
| Ethernet 3 Mbps | Port Recurring 3Mbps | \$96.00 | \$0.00 |
| Ethernet 5 Mbps | Port Recurring 5Mbps | \$113.00 | \$0.00 |
| Ethernet 10 Mbps | Port Recurring 10Mbps | \$153.00 | \$0.00 |
| Ethernet 20 Mbps | Port Recurring 20Mbps | \$235.00 | \$0.00 |
| Ethernet 30 Mbps | Port Recurring 30Mbps | \$252.00 | \$0.00 |
| Ethernet 50 Mbps | Port Recurring 50Mbps | \$302.00 | \$0.00 |
| Ethernet 90 Mbps | Port Recurring 90Mbps | \$472.00 | \$0.00 |
| Ethernet 100 Mbps | Port Recurring 100Mbps | \$570.00 | \$0.00 |
| Ethernet 300 Mbps | Port Recurring 300Mbps | \$1,390.00 | \$0.00 |
| Ethernet 500 Mbps | Port Recurring 500Mbps | \$2,014.00 | \$0.00 |
| Ethernet 1000 Mbps | Port Recurring 1000Mbps | \$2,970.00 | \$0.00 |
| Ethernet 2000 Mbps | Port Recurring 2000Mbps | \$5,726.00 | \$0.00 |
| Ethernet 5000 Mbps | Port Recurring 5000Mbps | \$13,093.00 | \$0.00 |

QOS/COS Charge - If QOS/COS is not included in PIP Dedicated Standard Port Charge immediately preceding this section, please indicate that charge

| Gold CAR/ (QOS/COS)/(EF Real Time) Speed | | MRC | NRC |
|---|----------------------|--------|--------|
| 0 Mbps (New PIP Port - CO #2) | EF Real Time 0Mbps | \$0.00 | \$0.00 |
| 5 Mbps | EF Real Time 5Mbps | \$0.00 | \$0.00 |
| 10 Mbps | EF Real Time 10Mbps | \$0.00 | \$0.00 |
| 20 Mbps | EF Real Time 20Mbps | \$0.00 | \$0.00 |
| 30 Mbps | EF Real Time 30Mbps | \$0.00 | \$0.00 |
| 50 Mbps | EF Real Time 50Mbps | \$0.00 | \$0.00 |
| 90 Mbps | EF Real Time 90Mbps | \$0.00 | \$0.00 |
| 300 Mbps | EF Real Time 300Mbps | \$0.00 | \$0.00 |

Miscellaneous Costs and information

| | | |
|---|--|---|
| Extension of Circuit demarcation, per Hour | | Hourly Rate \$150.00 |
| Expedite Charge, per Circuit | | Cost per Circuit Expedited \$1,500.00 |
| Multiple Virtual Routing and Forwarding (VRF) Service (New CO#2) | | \$0.00 |
| Standard Select Reporting Service (New CO#2) | | \$0.00 |