



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: 2017-01-03

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 MPLS07EE	Procurement Folder: 289205
Document Name: MPLS07EE - Multi-Protocol Label Switching & Services	Reason for Modification:
Document Description: MPLS07EE-Emergency-Multi-Protocol Label Switching & Services	
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: 2017-01-01
Free on Board: FOB Dest, Freight Prepaid	Effective End Date: 2017-12-31

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: 30	Requestor Name: Laura E Hooper Requestor Phone: (304) 558-5472 Requestor Email: laura.e.hooper@wv.gov

INVOICE TO	SHIP TO
ALL STATE AGENCIES VARIOUS 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
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<i>Call you 1/10/17</i> PURCHASING DIVISION AUTHORIZATION SIGNED BY: <i>[Signature]</i> DATE: 4/19/17 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>[Signature]</i> DATE: <i>[Signature]</i> ELECTRONIC SIGNATURE ON FILE
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1-25-17

JAN 26 2017

Extended Description:

Statewide/Emergency Contract - MPLS07EE

This twelve (12) month Emergency contract is for the purpose of the continuation of existing multi-protocol label switching and services for all Statewide agencies during the transition period and implementing the disentanglement provisions of Section 3.16.12 of MPLS07, incorporating all terms & conditions, pricing, specifications and authorized Change Orders of the MPLS07 and MPLS07E contract herein.

Line	Commodity Code	Manufacturer	Model No	Unit	Unit Price
1	83121703			EA	\$0.000000
	Service From	Service To			

Commodity Line Description: Internet related services

Extended Description:

Multi-Protocol Label Switching and Services

December 28, 2016

State of West Virginia
Attn: Gail Given
Office of Technology
1900 Kanawha Blvd E
Bldg. 5, 10th Floor
Charleston WV 25305

RE: Emergency Replacement Contract

Dear Mrs. Given:

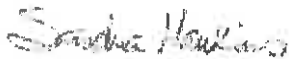
Per the email dated November 7, West Virginia Office of Technology is requesting another Emergency Replacement Contract which is necessary to continue supporting the current operating environment without change or disruption of services for the period January 1, 2017 to December 31, 2017 during which time certain provisions of the original MPLS07 contract, 'Section 3.16.12 Disentanglement', are to commence and be completed. WVOT is requesting another Emergency Replacement Contract according to all Terms and Conditions, Pricing and Specifications contained in the original MPLS07 Contract including all authorized Changes Orders.

Verizon is agreeable to an additional twelve (12) month Emergency Replacement Contract for the purpose of continuation of the existing services during the transition period and implementing the disentanglement provisions of Section 3.16.12 of MPLS07, subject to and incorporating all terms & conditions, pricing, specifications and authorized Change Orders contained in the original MPLS07 Contract. Notwithstanding the foregoing, Verizon understands that new service requests must be provided either from the DTATRANS contract or separately bid with WVOT approval.

Verizon's acceptance of another Emergency Replacement Contract is contingent upon: (i) co-prime Frontier's agreement to the above, and (ii) Frontier's agreement to continue supporting the Coordinated Performance Agreement between Verizon and Frontier under the same terms and conditions. Frontier's support is necessary in order to provision the existing services (including; billing, ordering, repair, etc.) as they are today.

Thank you again for the opportunity to provide your telecommunications needs.

Sincerely,



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



December 30, 2016

Gale Given
Chief Technology Officer
Department of Administration
West Virginia Office of Technology
1900 Kanawha Blvd E
Charleston, WV 25305

Re: MPLS07

Dear Ms. Given:

Frontier West Virginia Inc. ("Frontier") agrees with the State of West Virginia, by and through its authorized agency or agencies, to an Emergency Replacement Contract according to all Terms and Conditions, Pricing and Specifications contained in MPLS07, including all authorized Change Orders, for the period of January 1, 2017 to December 31, 2017, inclusive, provided that, consistent with Section 3.16.12 of MPLS07, the West Virginia Office of Technology ("WVOT") adopts a mutually agreeable written Disentanglement Transition Plan, including a timeline and milestones, on or before January 31, 2017, unless otherwise expressly agreed or extended in writing.

Frontier understands that agencies and/or Verizon will address appropriate submission of future orders under the DATA'TRANS contract, as may be necessary in lieu of orders pursuant to the MPLS07 contract, also placed through Verizon.

Sincerely,

A handwritten signature in black ink, appearing to be "Elena Kilpatrick", written over a large, light-colored oval shape.

Elena Kilpatrick

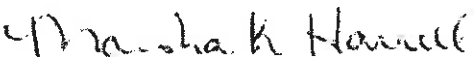
November 4, 2011

David Tincher, Director
West Virginia Purchasing Division
P.O. Box 50130
Charleston, WV 25305

Re: MPLS07

Dear Director Tincher:

You have asked that Verizon Business explain how Verizon West Virginia Inc. (now Frontier West Virginia Inc.) became a party to the MPLS07 contract. Verizon Business notes that the signature block for the Verizon entities on the WV-96 Agreement Addendum, made part of the MPLS07 contract, reflects that Verizon Business Network Services, Inc. executed the agreement on behalf of both MCI Communications Services, Inc. d/b/a Verizon Business Services ("Verizon Business") and Verizon West Virginia Inc. ("Verizon West Virginia"). Both Verizon Business and Verizon West Virginia had delegated signature authority to Verizon Business Network Services, Inc. for purposes of executing the MPLS07 contract and, thus, making Verizon West Virginia and Verizon Business original signatories to the MPLS07 contract.

Sincerely, 

Marsha K Harrell
Senior Consultant
Contract Management

Verizon Business Network Services, Inc.

Corporate Policy Statement

Policy No.: CPS-103
Issued: December 6, 2010
Subject: Authority to Approve Transactions



**APPENDIX 4
VERIZON BUSINESS
CPS-103 LETTER OF DELEGATION OF AUTHORITY
FORM 101**

Within the authority granted to me in CPS-103, "Authority to Approve Transactions," I delegate

Patricia L Myers, Manager, Pricing & Contract Management
Marsha K Harrell, Senior Consultant, Pricing & Contract Management
Lisa M Guignard, Director, Pricing & Contract Management; and
Christopher W McKeown, Manager, Pricing

the authority to perform the following function:

Execute and deliver Verizon Business Customer Contracts and Proposals requiring "wet ink" signatures, including any and all auxiliary documents and amendments related thereto, that are duly approved in accordance with then-applicable Verizon Business corporate policies, including the use of stamp-bearing facsimile of my signature in accordance with *Security Procedures for Anthony Racine, Vice President, Pricing & Contract Management, Blue Ink Stamp Policy.*

This will be effective beginning on July 1, 2011 and ending on June 30, 2012 or before if rescinded by me.

(Annual delegations must be completed by July 1st of each respective year and may not exceed one year from their effective date. Delegations with a start date other than July 1st should also include an end date of the subsequent June 30 or earlier.)

Distribution:

- The person delegated authority must retain a copy of Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date.
- The person granting the delegation must retain the Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date; send a copy to the delegate, the group Chief Financial Officer, and Corporate Finance Compliance at corporatefinancecompliance@core.verizon.com; and ensure the delegation is entered into the Accounts Payable system when appropriate.

Approved By:

Signature

Date

Name

VZ ID

VP, Pricing & Contract Management

Responsibility Code or Cost Center Code

Delegate's Signature - Lisa M Guignard

Delegate's Signature - Patricia L Myers

Delegate's Signature - Marsha K Harrell

Delegate's Signature - Christopher W McKeown

Corporate Policy Statement

Policy No.: CPS-103
Issued: December 6, 2010
Subject: Authority to Approve Transactions



**APPENDIX 4
VERIZON BUSINESS
CPS 103 LETTER OF DELEGATION OF AUTHORITY
FORM 101**

Within the authority granted to me in CPS-103, "Authority to Approve Transactions," I delegate

Patricia L Myers, Manager, Pricing & Contract Management (VZ ID [redacted])
Marsha K Harrell, Senior Consultant, Pricing & Contract Management (VZ ID [redacted]) and
Jacquelyn A Whiting, Director, Pricing & Contract Management (VZ ID [redacted])

the authority to perform the following function:

Execute and deliver Verizon Business Customer Contracts and Proposals requiring "wet ink" signatures, including any and all ancillary documents and amendments related thereto, that are duly approved in accordance with then-applicable Verizon Business corporate policies, including the use of stamp bearing facsimile of my signature in accordance with *Security Procedure for Anthony Recine, SVP & CMO, Blue Ink Stamp Policy.*

This will be effective beginning on July 1, 2016 and ending on June 30, 2017 or before if rescinded by me.

Annual delegations must be completed by July 1st of each respective year and may not exceed one year from their effective date. Delegations with a start date other than July 1st should also include an end date of the subsequent June 30 or earlier.

Distribution:

- The person delegated authority must retain a copy of Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date.
- The person granting the delegation must retain the Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date; send a copy to the delegate, the group Chief Financial Officer, and Corporate Finance Compliance at corporatefinance@vzw.com and ensure the delegation is entered into the Accounts Payable system when appropriate

Approved By

Anthony Recine 6/1/16
Signature Date

Anthony Recine [redacted]
Name VZ ID

SVP & CMO [redacted]

[redacted]
Responsibility Code or Cost Center Code

Jacquelyn A Whiting 6/7/16
Delegate's Signature Jacquelyn A Whiting

Patricia L Myers 6/6/16
Delegate's Signature Patricia L Myers

Marsha K Harrell 6/2/16
Delegate's Signature Marsha K Harrell

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
Core	OOT Core		
Core	OOT Core		
	1 Bureau of Employment Programs (BEP)	1900 Kanawha Blvd, East, Building 6	Charleston
	2 Bureau of Employment Programs (BEP)	200 West Main Street	Clarksburg
	3 Bureau of Employment Programs (BEP)	300 New River Town Center	Beckley
	4 Bureau of Employment Programs (BEP)	16 Sterling Drive	Bridgeport
	5 Bureau of Employment Programs (BEP)	1321 Plaza East	Charleston
	6 Bureau of Employment Programs (BEP)	1023 N Randolph Ave	Elkins
	7 Bureau of Employment Programs (BEP)	2699 Park Avenue, Suite 240	Huntington
	8 Bureau of Employment Programs (BEP)	3554 Teays Valley Rd,	Hurricane
	9 Bureau of Employment Programs (BEP)	21 Red Oaks Shopping Center	Lewisburg
	10 Bureau of Employment Programs (BEP)	300 Prosperity Lane Suite 277	Logan
	11 Bureau of Employment Programs (BEP)	891 Auto Parts Place, Suite 1314	Martinsburg
	12 Bureau of Employment Programs (BEP)	151 Robert C Byrd Industrial Park Road, suite 1	Moorefield
	13 Bureau of Employment Programs (BEP)	304 Scott Ave	Morgantown
	14 Bureau of Employment Programs (BEP)	257 North State Route 2,	New Martinsville
	15 Bureau of Employment Programs (BEP)	300 Lakeview Center	Parkersburg
	16 Bureau of Employment Programs (BEP)	225 Sixth Street	Point Pleasant
	17 Bureau of Employment Programs (BEP)	195 Davis Street	Princeton Bluefield
	18 Bureau of Employment Programs (BEP)	830 Northside Drive, Suite 123	Summersville
	19 Bureau of Employment Programs (BEP)	100 Municipal Plaza, Suite 300	Weirton
	20 Bureau of Employment Programs (BEP)	110 Park Ave. Suite 100	Welch
	21 Rehabilitation Services	1275 Warwood Ave.	Wheeling
	22 Rehabilitation Services	120 West 1st Avenue	Williamson
	23 Rehabilitation Services	800 New River Town Center	Beckley
	24 Rehabilitation Services	500 Quarrier Street, Suite 500	Charleston
	25 Rehabilitation Services	107 Capitol St	Charleston
	26 Rehabilitation Services	4701 MacCorkle Ave. SE	Kanawha City
	27 Rehabilitation Services	107 Cambridge Place	Clarksburg
	28 Rehabilitation Services	1025 North Randolph Avenue	Elkins
	29 Rehabilitation Services	2699 Park Ave, Suite 200	Huntington
	30 Rehabilitation Services	1004 Baron Drive	Institute
	31 Rehabilitation Services	67 North Tomado Way	Keyser
	32 Rehabilitation Services	777 N. Jefferson St	Lewisburg
	33 Rehabilitation Services	891 Auto Parts Place, Suite 131	Martinsburg
	34 Rehabilitation Services	151 Robert C Byrd Industrial Park Road, suite 3	Moorefield
	35 Rehabilitation Services	124 South High St	Morgantown
	36 Rehabilitation Services	316 Howard Ave	Mullens
	37 Rehabilitation Services	10 McJunkin Road	Nitro
	38 Rehabilitation Services	549 Mall Road	Oak Hill
	39 Rehabilitation Services	400 5th St	Parkersburg
	40 Rehabilitation Services	195 Davis St	Princeton
	41 Rehabilitation Services	209 5th St	Pt Pleasant
	42 Rehabilitation Services	24939 Northwestern Pike	Romney
	43 Rehabilitation Services	714 Wells St	Sistersville
	44 Rehabilitation Services	321 Market St	Spencer
	45 Rehabilitation Services	830 Northside Drive, Suite 113	Summersville
	46 Rehabilitation Services	100 Municipal Plaza, Suite 200	Weirton
	47 Department of Environmental Protection (DEP)	110 Park Ave	Welch
	48 Department of Environmental Protection (DEP)	100 Market Place Plaza, Suite 38	Weston
	49 Department of Environmental Protection (DEP)	101 Cambridge Place	Bridgeport
	50 Department of Environmental Protection (DEP)	601 57th Street, SE	Charleston
	51 Department of Environmental Protection (DEP)	4994 Elk River Road	Elkview
	52 Department of Environmental Protection (DEP)	2031 Pleasant Valley Rd	Fairmont
	53 Department of Environmental Protection (DEP)	Route 20 South	French Creek
	54 Department of Environmental Protection (DEP)	367 Gus Douglas Lane	Charleston
	55 Department of Environmental Protection (DEP)	1101 George Kostas Dr.	Logan
	56 Department of Environmental Protection (DEP)	254 Industrial Drive	Oak Hill
	57 Department of Environmental Protection (DEP)	2311 Ohio Ave.	Parkersburg
	58 Department of Environmental Protection (DEP)	105 South Railroad Street	Philippi
	59 Department of Environmental Protection (DEP)	22288 Northwestern Pike,	Romney
		18 Putnam Village	Teays Valley
		331 Court St. Suite 204	Welch

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
60	Department of Environmental Protection (DEP)	131A Peninsula St	Wheeling
61	Tax & Revenue	1206 Quarrier St	Charleston
62	Tax & Revenue	1001 Lee Street	Charleston
63	Tax & Revenue	1124 Smith Street	Charleston
64	Tax & Revenue	1900 Kanawha Blvd E., West Wing - Capitol Complex 3 rd Fl	Charleston
65	Tax & Revenue	407 Neville St, Suite 109	Beckley
66	Tax & Revenue	200 West Main Street	Clarksburg
67	Tax & Revenue	2699 Park Ave, Suite 230	Huntington
68	Tax & Revenue	397 Mid Atlantic Parkway	Martinsburg
69	Tax & Revenue	400 5 th Street	Parkersburg
70	Tax & Revenue	40 14 th Street, Suite 101	Wheeling
71	Department of Motor Vehicles (DMV)	107 Pinecrest Dr.	Beckley
72	Department of Motor Vehicles (DMV)	105 Platinum Dr. Suite D	Bridgeport
73	Department of Motor Vehicles (DMV)	24 Ruland Rd.	Kearneysville
74	Department of Motor Vehicles (DMV)	1356 Hansford Street	Charleston
75	Department of Motor Vehicles (DMV)	1900 Kanawha Blvd East	Charleston
76	Department of Motor Vehicles (DMV)	1029 N Randolph Ave.	Elkins
77	Department of Motor Vehicles (DMV)	209 Marion Square	Fairmont
78	Department of Motor Vehicles (DMV)	295 Skidmore Lane	Flatwoods
79	Department of Motor Vehicles (DMV)	100 Thorn Creek Road, Suite 300	Franklin
80	Department of Motor Vehicles (DMV)	208 Hale Street	Charleston
81	Department of Motor Vehicles (DMV)	801 Madison Ave.	Huntington
82	Department of Motor Vehicles (DMV)	14 Kanawha Mall	Kanawha City
83	Department of Motor Vehicles (DMV)	148 Maplewood Ave	Lewisburg
84	Department of Motor Vehicles (DMV)	428 Main Street	Logan
85	Department of Motor Vehicles (DMV)	38 Severna Parkway	Martinsburg
86	Department of Motor Vehicles (DMV)	410 South Main Street	Moorefield
87	Department of Motor Vehicles (DMV)	1525 Deckers Creek Blvd.	Morgantown
88	Department of Motor Vehicles (DMV)	400 Teletech Dr. Ste 100	Moundsville
89	Department of Motor Vehicles (DMV)	627 Lubeck Avenue	Parkersburg
90	Department of Motor Vehicles (DMV)	198 Davis Street	Princeton
91	Department of Motor Vehicles (DMV)	1408 Kanawha Street	Pt. Pleasant
92	Department of Motor Vehicles (DMV)	1806 Washington Street	Records
93	Department of Motor Vehicles (DMV)	22278 Northwestern Plke	Romney
94	Department of Motor Vehicles (DMV)	115 Church Street	Spencer
95	Department of Motor Vehicles (DMV)	Suite 100 Municipal Plaza Route 2 and Cove Rd.	Weirton
96	Department of Motor Vehicles (DMV)	92 McDowell Street	Weich
97	Department of Motor Vehicles (DMV)	2600 Eoff Street	Wheeling
98	Department of Motor Vehicles (DMV)	225 E. 3rd Ave.	Williamson
99	Department of Motor Vehicles (DMV)	116 Liberty Square	Hurricane
100	Department of Transportation (DOT)	10800 Northwestern Turnpike	New Creek
101	Department of Transportation (DOT)	1121 N Randolph Ave	Elkins
102	Department of Transportation (DOT)	1510 Grafton Road	Morgantown
103	Department of Transportation (DOT)	1317 Hansford St	Charleston
104	Department of Transportation (DOT)	1510 Kanawha Blvd E	Charleston
105	Department of Transportation (DOT)	300 Capitol Street, Sutes 1010 & 1002	Charleston
106	Department of Transportation (DOT)	146 Stonehouse Road	Lewisburg
107	Department of Transportation (DOT)	2120 Northwestern Turnpike	Burlington
108	Department of Transportation (DOT)	8174 Old Logan Rd	Chapmanville
109	Department of Transportation (DOT)	1 DOT Dr	Moundsville
110	Department of Transportation (DOT)	624 Depot St	Parkersburg
111	Department of Transportation (DOT)	2462 Murphys Run Rd	Bridgeport
112	Department of Transportation (DOT)	120 Water Plant Dr	Moorefield
113	Department of Transportation (DOT)	269 Charleston Rd	Spencer
114	Department of Transportation (DOT)	56 DOH Drive	Romney
115	Department of Transportation (DOT)	119 Railcross Rd	Clarksburg
116	Department of Transportation (DOT)	937 US Route 19 South	Weston
117	Department of Transportation (DOT)	281 Tunnel Hill Rd	Salem
118	Department of Transportation (DOT)	368 Old Route 73	Bruceton Mills
119	Department of Transportation (DOT)	95 Goshen Rd	Morgantown
120	Department of Transportation (DOT)	3870 National Rd	Triadelphia
121	Department of Transportation (DOT)	1 Highway Garage Rd	Williamson

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
122	Department of Transportation (DOT)	4476 Triplett Ridge Rd	Clay
123	Department of Transportation (DOT)	410 South Main St	Moorefield
124	Department of Health and Human Services (DHHR)	1 Jerry Lane	Augusta
125	Department of Health and Human Services (DHHR)	74 Periwinkle Lane	Barboursville
126	Department of Health and Human Services (DHHR)	407 Neville Street	Beckley
127	Department of Health and Human Services (DHHR)	1600 Harper Road	Beckley
128	Department of Health and Human Services (DHHR)	100 East Prince Street	Beckley
129	Department of Health and Human Services (DHHR)	105 S. Eisenhower Dr	Beckley
130	Department of Health and Human Services (DHHR)	228 Ragland Road	Beckley
131	Department of Health and Human Services (DHHR)	192 Industrial Park Lane	Beech Bottom
132	Department of Health and Human Services (DHHR)	84 1 Regal Court	Berkeley Springs
133	Department of Health and Human Services (DHHR)	187 South Green Street	Berkeley Springs
134	Department of Health and Human Services (DHHR)	1644 Valley Road	Berkeley Springs
135	Department of Health and Human Services (DHHR)	34 Auction Lane	Buckhannon
136	Department of Health and Human Services (DHHR)	16 North Locust Street	Buckhannon
137	Department of Health and Human Services (DHHR)	33 Southfork Plaza Drive	Buckhannon
138	Department of Health and Human Services (DHHR)	408 Alexander Street	Cedar Grove
139	Department of Health and Human Services (DHHR)	239 Willow Springs Dr	Charles Town
140	Department of Health and Human Services (DHHR)	231 Capitol Street, Suite 200	Charleston
141	Department of Health and Human Services (DHHR)	1716 Pennsylvania Ave	Charleston
142	Department of Health and Human Services (DHHR)	101 Dee Dr.	Charleston
143	Department of Health and Human Services (DHHR)	619 Virginia Street W	Charleston
144	Department of Health and Human Services (DHHR)	800 Pennsylvania Ave	Charleston
145	Department of Health and Human Services (DHHR)	1900 Virginia St	Charleston
146	Department of Health and Human Services (DHHR)	350 Capitol St	Charleston
147	Department of Health and Human Services (DHHR)	231 Capitol Street	Charleston
148	Department of Health and Human Services (DHHR)	1321 Plaza East	Charleston
149	Department of Health and Human Services (DHHR)	4710 Chimney Drive	Charleston
150	Department of Health and Human Services (DHHR)	108 Lee Street	Charleston
151	Department of Health and Human Services (DHHR)	Kanawa Blvd	Charleston
152	Department of Health and Human Services (DHHR)	900 Bullit Street	Charleston
153	Department of Health and Human Services (DHHR)	808 B Street, Suite G	Charleston
154	Department of Health and Human Services (DHHR)	1012 Kanawha Blvd East	Charleston
155	Department of Health and Human Services (DHHR)	1701 5th Avenue	Charleston
156	Department of Health and Human Services (DHHR)	633 West Pike Street	Clarksburg
157	Department of Health and Human Services (DHHR)	110 North Sixth Street, Suite 3	Clarksburg
158	Department of Health and Human Services (DHHR)	115 South 4th Street	Clarksburg
159	Department of Health and Human Services (DHHR)	330 West Main Street	Clarksburg
160	Department of Health and Human Services (DHHR)	315 North Ohio Avenue	Clarksburg
161	Department of Health and Human Services (DHHR)	104 East Main Street, Colonial Village, Suite 2C	Clarksburg
162	Department of Health and Human Services (DHHR)	94 Main Street	Clay
163	Department of Health and Human Services (DHHR)	452 Main Street	Clay
164	Department of Health and Human Services (DHHR)	213 Kenmore Drive	Danville
165	Department of Health and Human Services (DHHR)	4190 W. Washington St	Dunbar
166	Department of Health and Human Services (DHHR)	124 Court St, Suite 3	Elizabeth
167	Department of Health and Human Services (DHHR)	88 Senior Circle	Elizabeth
168	Department of Health and Human Services (DHHR)	1027 North Randolph Avenue	Elkins
169	Department of Health and Human Services (DHHR)	230 Heaven Ave	Elkins
170	Department of Health and Human Services (DHHR)	201 Henry Avenue	Elkins
171	Department of Health and Human Services (DHHR)	1200 Harrison Avenue	Elkins
172	Department of Health and Human Services (DHHR)	107 Davis Street	Elkins
173	Department of Health and Human Services (DHHR)	300 Second Street	Fairmont
174	Department of Health and Human Services (DHHR)	401 Guffey Street	Fairmont
175	Department of Health and Human Services (DHHR)	Hennen Building, 118 Adams Street, Suites 201A	Fairmont
176	Department of Health and Human Services (DHHR)	532 Pennsylvania Avenue	Fairmont
177	Department of Health and Human Services (DHHR)	1400 Virginia Street	Fayetteville
178	Department of Health and Human Services (DHHR)	202 Church Street	Fayetteville
179	Department of Health and Human Services (DHHR)	156 Resource Lane, Foster, WV	Foster
180	Department of Health and Human Services (DHHR)	100 Thorn Creek Road, Suite 200	Franklin
181	Department of Health and Human Services (DHHR)	223 Mill Road	Franklin
182	Department of Health and Human Services (DHHR)	299 Confederate Road	Franklin
183	Department of Health and Human Services (DHHR)	71 Wayne St	Ft Gay

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
184	Department of Health and Human Services (DHHR)	537 Enterprise Drive	Gassaway
185	Department of Health and Human Services (DHHR)	1493 WV Highway 5 East	Glennville
186	Department of Health and Human Services (DHHR)	809 Mineral Road	Glennville
187	Department of Health and Human Services (DHHR)	212- 1 East Main Street	Glennville
188	Department of Health and Human Services (DHHR)	235 Barrett Street	Grafton
189	Department of Health and Human Services (DHHR)	718 West Main Street	Grafton
190	Department of Health and Human Services (DHHR)	4 Harmon Center	Grafton
191	Department of Health and Human Services (DHHR)	101 Beech Street	Grafton
192	Department of Health and Human Services (DHHR)	85 Industrial Drive	Grantsville
193	Department of Health and Human Services (DHHR)	186 Hospital Dr	Grantsville
194	Department of Health and Human Services (DHHR)	8209 Court Avenue	Hamlin
195	Department of Health and Human Services (DHHR)	8008 Court Avenue	Hamlin
196	Department of Health and Human Services (DHHR)	220 W. Main Street	Harrisville
197	Department of Health and Human Services (DHHR)	126 West Main Street	Harrisville
198	Department of Health and Human Services (DHHR)	161 Pleasant Street	Hinton
199	Department of Health and Human Services (DHHR)	312 Third Avenue	Hinton
200	Department of Health and Human Services (DHHR)	320 Summers St, Suite A	Hinton
201	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
202	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
203	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
204	Department of Health and Human Services (DHHR)	2899 Park Avenue - Suite 100	Huntington
205	Department of Health and Human Services (DHHR)	703 7th Street	Huntington
206	Department of Health and Human Services (DHHR)	611 7th Avenue	Huntington
207	Department of Health and Human Services (DHHR)	6187 US Route 60 East Ste. #12	Huntington
208	Department of Health and Human Services (DHHR)	1948 Wiltshire Road	Keameysville
209	Department of Health and Human Services (DHHR)	1685 Cornell Street	Keyser
210	Department of Health and Human Services (DHHR)	Harley O Staggers, Sr Drive	Keyser
211	Department of Health and Human Services (DHHR)	18351 Veterans Memorial Highway	Kingwood
212	Department of Health and Human Services (DHHR)	106 West Main Street	Kingwood
213	Department of Health and Human Services (DHHR)	60 Albright Rd Suite #2	Kingwood
214	Department of Health and Human Services (DHHR)	150 Maplewood Avenue	Lewisburg
215	Department of Health and Human Services (DHHR)	106 Back Valley Road	Lindsie
216	Department of Health and Human Services (DHHR)	130 Stratton Street	Logan
217	Department of Health and Human Services (DHHR)	300 Stratton St	Logan
218	Department of Health and Human Services (DHHR)	19 Circle Drive Rm. 214	Logan
219	Department of Health and Human Services (DHHR)	102 Third St	Logan
220	Department of Health and Human Services (DHHR)	2 Edray Business Park	Marlinton
221	Department of Health and Human Services (DHHR)	900 Tenth Avenue	Marlinton
222	Department of Health and Human Services (DHHR)	819 Third Avenue	Marlinton
223	Department of Health and Human Services (DHHR)	433 Mid-Atlantic Parkway	Martinsburg
224	Department of Health and Human Services (DHHR)	800 South Queen Street	Martinsburg
225	Department of Health and Human Services (DHHR)	321 A Lutz Avenue	Martinsburg
226	Department of Health and Human Services (DHHR)	99 Tavern Road	Martinsburg
227	Department of Health and Human Services (DHHR)	33 Mountain Heart Lane	Matheny
228	Department of Health and Human Services (DHHR)	210 Main Street	Middlebourne
229	Department of Health and Human Services (DHHR)	149 Robert C. Byrd Industrial Park Road	Moorefield
230	Department of Health and Human Services (DHHR)	411 Spring Avenue, Suite 101	Moorefield
231	Department of Health and Human Services (DHHR)	721 North Main Street, Suite 105,	Moorefield
232	Department of Health and Human Services (DHHR)	114 South High Street	Morgantown
233	Department of Health and Human Services (DHHR)	1090 Eimer W. Prince Drive	Morgantown
234	Department of Health and Human Services (DHHR)	190 Hartfield Road	Morgantown
235	Department of Health and Human Services (DHHR)	965 Hartman Run Road	Morgantown
236	Department of Health and Human Services (DHHR)	400 Teltech Drive, Suite 2	Moundsville
237	Department of Health and Human Services (DHHR)	500 Teltech Drive	Moundsville
238	Department of Health and Human Services (DHHR)	100 North Court Street	New Cumberland
239	Department of Health and Human Services (DHHR)	1236 North State Route 2	New Martinsville
240	Department of Health and Human Services (DHHR)	1822 E. Main St	Oak Hill
241	Department of Health and Human Services (DHHR)	28 Trinity Lane	Oceana
242	Department of Health and Human Services (DHHR)	425 South Fourth Avenue	Paden City
243	Department of Health and Human Services (DHHR)	430 South 2nd Avenue	Paden City
244	Department of Health and Human Services (DHHR)	400 5th Street	Parkersburg
245	Department of Health and Human Services (DHHR)	211 Sixth Street	Parkersburg

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
246	Department of Health and Human Services (DHHR)	4421 Emerson Avenue, Suite 102	Parkersburg
247	Department of Health and Human Services (DHHR)	9346 Seneca Trail	Parsons
248	Department of Health and Human Services (DHHR)	53 Kless Drive	Petersburg
249	Department of Health and Human Services (DHHR)	23 Hospital Drive	Petersburg
250	Department of Health and Human Services (DHHR)	93 South Grove Street	Petersburg
251	Department of Health and Human Services (DHHR)	209 South Main Street	Phillipi
252	Department of Health and Human Services (DHHR)	49 Mattaliano Drive	Phillipi
253	Department of Health and Human Services (DHHR)	23 Wabash Avenue	Phillipi
254	Department of Health and Human Services (DHHR)	1767 Bearhole Road	Pineville
255	Department of Health and Human Services (DHHR)	Bank and 44 Cedar Street	Pineville
256	Department of Health and Human Services (DHHR)	710 Viand Street	Point Pleasant
257	Department of Health and Human Services (DHHR)	216 5th St	Point Pleasant
258	Department of Health and Human Services (DHHR)	701 22nd Street	Point Pleasant
259	Department of Health and Human Services (DHHR)	200 Davis Street	Princeton
260	Department of Health and Human Services (DHHR)	978 Blue Prince Road	Princeton
261	Department of Health and Human Services (DHHR)	1411 North Washker Street	Princeton
262	Department of Health and Human Services (DHHR)	107 East Fourth Avenue	ranson
263	Department of Health and Human Services (DHHR)	2139 Cedar Lakes Road	Ripley
264	Department of Health and Human Services (DHHR)	504 South Church Street	Ripley
265	Department of Health and Human Services (DHHR)	800 South Church St, Suite 2	Ripley
266	Department of Health and Human Services (DHHR)	Route 50 East	Romney
267	Department of Health and Human Services (DHHR)	24940 North Western Pike	Romney
268	Department of Health and Human Services (DHHR)	9207 Seneca Trail, South	Ronceverte
269	Department of Health and Human Services (DHHR)	25 Red Oak Shopping Center	Ronceverte
270	Department of Health and Human Services (DHHR)	214 W Edgar Ave.	Ronceverte
271	Department of Health and Human Services (DHHR)	22 Herbert avenue	Smithburg
272	Department of Health and Human Services (DHHR)	313 Maccorkle Ave SW	South Charleston
273	Department of Health and Human Services (DHHR)	677 Ripley Road, Suite 3	Spencer
274	Department of Health and Human Services (DHHR)	200 Main Street	Spencer
275	Department of Health and Human Services (DHHR)	1655 South Pleasants Highway	St. Marys
276	Department of Health and Human Services (DHHR)	605 Cherry St	St. Marys
277	Department of Health and Human Services (DHHR)	707 Professional Park Drive	Summersville
278	Department of Health and Human Services (DHHR)	1 Steven Road	Summersville
279	Department of Health and Human Services (DHHR)	1020 Broad St.	Summersville
280	Department of Health and Human Services (DHHR)	852 Northside Drive, Suite 22	Summersville
281	Department of Health and Human Services (DHHR)	1936 Sutton Lane	Sutton
282	Department of Health and Human Services (DHHR)	495 1/2 Old Turnpike Road	Sutton
283	Department of Health and Human Services (DHHR)	19 Putnam Village Shopping Center	Teays Valley
284	Department of Health and Human Services (DHHR)	150 Hopmont Dr	Terra Alta
285	Department of Health and Human Services (DHHR)	174 Route 3	Union
286	Department of Health and Human Services (DHHR)	1301 34th Street	Vienna
287	Department of Health and Human Services (DHHR)	26452 E Lynn Rd	Wayne
288	Department of Health and Human Services (DHHR)	590 Railroad Avenue	Wayne
289	Department of Health and Human Services (DHHR)	203 Kenova Avenue	Wayne
290	Department of Health and Human Services (DHHR)	110 North Main Street	Webster Springs
291	Department of Health and Human Services (DHHR)	324 Miller Mountain Drive, Suite A	Webster Springs
292	Department of Health and Human Services (DHHR)	80 North Main Street	Webster Springs
293	Department of Health and Human Services (DHHR)	100 Municipal Plaza, Suite 600	Weirton
294	Department of Health and Human Services (DHHR)	3622 B West Street	Weirton
295	Department of Health and Human Services (DHHR)	2819 Pennsylvania Av, Suite 1	Weirton
296	Department of Health and Human Services (DHHR)	840 Virginia Avenue	Welch
297	Department of Health and Human Services (DHHR)	454 McDowell Street	Welch
298	Department of Health and Human Services (DHHR)	830 Virginia Avenue	Welch
299	Department of Health and Human Services (DHHR)	17 McDowell Street	Welch
300	Department of Health and Human Services (DHHR)	632 Main Street	Wellsburg
301	Department of Health and Human Services (DHHR)	11522 Ohio River Road	West Columbia
302	Department of Health and Human Services (DHHR)	60 Pennsylvania Street	West Union
303	Department of Health and Human Services (DHHR)	91 Arnold Avenue	Weston
304	Department of Health and Human Services (DHHR)	125 Court Avenue	Weston
305	Department of Health and Human Services (DHHR)	239 Court Street	Weston
306	Department of Health and Human Services (DHHR)	936 Sharpe Hospital Road	Weston
307	Department of Health and Human Services (DHHR)	2 Brown Ave.	Weston

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
308	Department of Health and Human Services (DHHR)	69 16th Street	Wheeling
309	Department of Health and Human Services (DHHR)	1500 Chapline Street, Rm 106	Wheeling
310	Department of Health and Human Services (DHHR)	1060 Chapline Street	Wheeling
311	Department of Health and Human Services (DHHR)	1025 Main Street, Suite 510	Wheeling
312	Department of Health and Human Services (DHHR)	46 18th Street	Wheeling
313	Department of Health and Human Services (DHHR)	203 East 3rd Avenue	Williamson
314	Department of Health and Human Services (DHHR)	First Ave & Logan St, 2nd Floor	Williamson
315	Department of Health and Human Services (DHHR)	215 Logan Street, Suite 40	Williamson
316	Department of Health and Human Services (DHHR)	3405 Winfield Road	Winfield
317	Department of Health and Human Services (DHHR)	3282 WINFIELD RD UNIT BUS 2	WINFIELD
318	Department of Health and Human Services (DHHR)	3408 Winfield Rd.	Winfield
319	Department of Natural Resources (DNR)	1336 State Street	Gassaway
320	Department of Natural Resources (DNR)	1110 Railroad Street	Farmington
321	Department of Natural Resources (DNR)	4056 Pigeon Creek Road	Oakvale
322	Department of Natural Resources (DNR)	3405 Pipestem Drive	Pipestem
323	Department of Natural Resources (DNR)	1684 Black Water Lodge Road	Davis
324	Department of Natural Resources (DNR)	Route 97 Saulsville Mountain Road	Mullins
325	Department of Natural Resources (DNR)	1240 Paul E. Malone Road	Grafton
326	Department of Natural Resources (DNR)	2008 Robert C Byrd Drive	Beckley
327	Department of Natural Resources (DNR)	738 Ward Road	Elkins
328	Department of Natural Resources (DNR)	1 Depot Street	Romney
329	Department of Natural Resources (DNR)	1163 Wildlife Road.	Point Pleasant
330	Department of Natural Resources (DNR)	324 4th Avenue	South Charleston
331	Department of Natural Resources (DNR)	4300 1st Avenue	Nitro
332	Department of Natural Resources (DNR)	618 Cacapon Lodge Drive	Berkley Springs
333	Department of Natural Resources (DNR)	5601 Long Branch Road	Barboursville
334	Division of Corrections (Corrections)	313 Anthony Center Dr.	White Sulphur Springs
335	Division of Corrections (Corrections)	999 11th St.	Moundsville
336	Division of Corrections (Corrections)	3225 Robert C Byrd Drive	Beckley
337	Division of Corrections (Corrections)	3049 Robert C. Byrd Drive Suite 100	Beckley
338	Division of Corrections (Corrections)	1389 Plaza East	Charleston
339	Division of Corrections (Corrections)	607 Brooks St	Charleston
340	Division of Corrections (Corrections)	215 West Main St	Clarksburg
341	Division of Corrections (Corrections)	4319 Denmar Rd	Hillsboro
342	Division of Corrections (Corrections)	1200 Harrison Avenue	Elkins
343	Division of Corrections (Corrections)	1513 Harrison Ave	Elkins
344	Division of Corrections (Corrections)	103 Academy Street	Glennville
345	Division of Corrections (Corrections)	1236 5th Ave	Huntington
346	Division of Corrections (Corrections)	801 Madison Ave. Room 202	Huntington
347	Division of Corrections (Corrections)	Route 250 South	Huttonsville
348	Division of Corrections (Corrections)	102 North Main St	Keyser
349	Division of Corrections (Corrections)	11264 Ohio River Rd	West Columbia
350	Division of Corrections (Corrections)	101 S. Court St	Lewisburg
351	Division of Corrections (Corrections)	229 Stratton St. Room 306	Logan
352	Division of Corrections (Corrections)	38 Grapevine Road	Martinsburg
353	Division of Corrections (Corrections)	1520 Winchester Ave	Martinsburg
354	Division of Corrections (Corrections)	60 Court St.	Welch
355	Division of Corrections (Corrections)	901 8th St	Moundsville
356	Division of Corrections (Corrections)	1 Mountainside Way	Mt Olive
357	Division of Corrections (Corrections)	112 Northern Regional Correctional Drive	Moundsville
358	Division of Corrections (Corrections)	1501 Eoff St	Wheeling
359	Division of Corrections (Corrections)	225 Holiday Hills	Parkersburg
360	Division of Corrections (Corrections)	159 Davis Street	Princeton
361	Division of Corrections (Corrections)	2006 Trap Springs Road	Grafton
362	Division of Corrections (Corrections)	117 Court St	Ripley
363	Division of Corrections (Corrections)	2880 N. Pleasants Highway St	St. Marys
364	Division of Corrections (Corrections)	795 Virginia Ave	Welch
365	Division of Corrections (Corrections)	110 Park Ave, Suite 111	Welch
366	Division of Corrections (Corrections)	1025 Main St	Wheeling
367	Regional Jails	1 O'Hanlon Place	Barboursville
368	Regional Jails	1 Lois Lane	Greenwood
369	Regional Jails	300 Days Drive	Sutton

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
370	Regional Jails	112 Northern Regional Correctional Drive	Moundsville
371	Regional Jails	13 Dolin Dr	Augusta
372	Regional Jails	400 Abbey Rd	Belington
373	Regional Jails	94 grapevine Road	Martinsburg
374	Regional Jails	13 Gaston Caperton Dr.	Holden
375	Office of Technology (OOT)	1900 Kanawha Blvd East	Charleston
376	Office of Technology (OOT) [Aviation]	502 Eagle Mountain Rd.	Charleston
377	Office of Technology (OOT) [Armory]	1703 Coonskin Dr.	Charleston
378	Office of Technology (OOT) [Banking]	One Players Club Dr., Suite 300	Charleston
379	Office of Technology (OOT) [Boards and Commissions]	1201 Dunbar Avenue	Dunbar
380	Office of Technology (OOT) [Boards and Commissions]	80 12th Street,	Wheeling
381	Office of Technology (OOT) [Boards and Commissions]	405 Capitol St., Suite 800	Charleston
382	Office of Technology (OOT) [Boards and Commissions]	2310 Kanawha Boulevard East	Charleston
383	Office of Technology (OOT) [Boards and Commissions]	1700 MacCorkle Ave. SE	Charleston
384	Office of Technology (OOT) [Boards and Commissions]	418 Airport Road	Sutton
385	Office of Technology (OOT) [Boards and Commissions]	3003 Charleston Town Center, Third Floor	Charleston
386	Office of Technology (OOT) [Boards and Commissions]	405 Capitol Street, Suite 906	Charleston
387	Office of Technology (OOT) [Boards and Commissions]	900 Pennsylvania Avenue	Charleston
388	Office of Technology (OOT) [Boards and Commissions]	300 Capitol Street, Suite 400	Charleston
389	Office of Technology (OOT) [Center for Professional Dev]	208 Hale Street	Charleston
390	Office of Technology (OOT) [VA Nursing Home]	One Freedoms Way	Clarksburg
391	Office of Technology (OOT) [Commerce]	1116 Smith Street	Charleston
392	Office of Technology (OOT) [Consolidated Buildings]	153 West Main Street	Clarksburg
393	Office of Technology (OOT) [Culture and History]	801 Jefferson Ave	Moundsville
394	Office of Technology (OOT) [Juvenile Services -DJS]	69 Factory Street	Clarksburg
395	Office of Technology (OOT) [Juvenile Services -DJS]	1200 Quarrier St	Charleston
396	Office of Technology (OOT) [Juvenile Services -DJS]	2 Walden Roush Way	Point Pleasant
397	Office of Technology (OOT) [Juvenile Services -DJS]	901 Shelter Road	Princeton
398	Office of Technology (OOT) [Juvenile Services -DJS]	843 Shelter Road	Princeton
399	Office of Technology (OOT) [Juvenile Services -DJS]	467 Main Street	Madison
400	Office of Technology (OOT) [Juvenile Services -DJS]	150 Hopemont Drive	Terra Alta
401	Office of Technology (OOT) [Juvenile Services -DJS]	907 Mission Drive	Parkersburg
402	Office of Technology (OOT) [Juvenile Services -DJS]	108 Martin Drive	Mt Hope
403	Office of Technology (OOT) [Juvenile Services -DJS]	2 O'Hanion Place	Barboursville
404	Office of Technology (OOT) [Juvenile Services -DJS]	60 Manfred Holland Way	Dunbar
405	Office of Technology (OOT) [Juvenile Services -DJS]	One Lory Place	Julian
406	Office of Technology (OOT) [Juvenile Services -DJS]	900 Emmett Rousch Drive	Martinsburg
407	Office of Technology (OOT) [Juvenile Services -DJS]	1000 Chapline St	Wheeling
408	Office of Technology (OOT) [Juvenile Services -DJS]	141 Forestry Camp Road	Davis
409	Office of Technology (OOT) [Juvenile Services -DJS]	1186 N.Mildred Street, Ste. 101-102	Ranson
410	Office of Technology (OOT) [Juvenile Services -DJS]	3551-1/2 Main Street	Weirton
411	Office of Technology (OOT) [Juvenile Services -DJS]	11125 Route 52	Wayne
412	Office of Technology (OOT) [Juvenile Services -DJS]	1014 So. Raleigh Street,	Martinsburg
413	Office of Technology (OOT) [Forestry]	1106 Railroad Street	Farmington
414	Office of Technology (OOT) [Forestry]	878 E Main St	Milton
415	Office of Technology (OOT) [General Services]	908 Bullitt Street	Charleston
416	Office of Technology (OOT) [Mine Safety and Health]	1815 Washington Street East	Charleston
417	Office of Technology (OOT) [Mine Safety and Health]	891 Stewart Street	Welch
418	Office of Technology (OOT) [Mine Safety and Health]	14 Commerce Dr., Suite 1	Morgantown
419	Office of Technology (OOT) [Mine Safety and Health]	550 Industrial Dr.	Oak Hill
420	Office of Technology (OOT) [Mine Safety and Health]	137 Peach Court	Danville
421	Office of Technology (OOT) [Pension Board]	1700 MacCorkle Ave. SE	Charleston
422	Office of Technology (OOT) [NCO-Volunteer]	710 Central Avenue	Charleston
423	Office of Technology (OOT) [Office of Admin Hearings]	300 Capitol Street, Suite 1010	Charleston
424	Office of Technology (OOT) [Surplus Property]	2700 Charles Ave	Dunbar
425	WV Library Commission	308 Walnut Avenue	Alderson
426	WV Library Commission	214 Midway Rd.	Alum Creek
427	WV Library Commission	102 Oak St.	Ansted
428	WV Library Commission	4120 Fairmont Rd.	Morgantown
429	WV Library Commission	6760 Ashton Upland Rd.	Ashton
430	WV Library Commission	510 Elliot Ave.	Belington

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
431	WV Library Commission	2059 Mason-Dixon Highway	Blacksville
432	WV Library Commission	10002 Marshall Highway	Bradshaw
433	WV Library Commission	4 Mile Creek Rd.	Branchland
434	WV Library Commission	105 E. Main St.	Buckkannon
435	WV Library Commission	3530 Buffalo Rd.	Buffalo
436	WV Library Commission	14 Hope Lane	Burlington
437	WV Library Commission	235 Kanawha St.	Burnsville
438	WV Library Commission	44 Main St. Benedum Bldg.	Cameron
439	WV Library Commission	2987 Northwestern Pike	Capon Bridge
440	WV Library Commission	299 Vance St.	Chapmanville
441	WV Library Commission	601 Railroad St.	Chester
442	WV Library Commission	614 Main St.	Clay
443	WV Library Commission	47 Mill St.	Cowen
444	WV Library Commission	69 Library Lane	Craigsville
445	WV Library Commission	495 WV Route 65	Delbarton
446	WV Library Commission	4348 Staunton Parkersburg Tpk.	Durbin
447	WV Library Commission	500 Roosevelt Blvd.	Eleanor
448	WV Library Commission	411 Mulberry St.	Elizabeth
449	WV Library Commission	1255 T. J. Jackson Dr.	Falling Waters
450	WV Library Commission	200 W. Maple Ave.	Fayetteville
451	WV Library Commission	844 Main St.	Follansbee
452	WV Library Commission	8608 R. Broadway	Fort Gay
453	WV Library Commission	256 N. Main St.	Franklin
454	WV Library Commission	57 Presidents St.	Ft. Ashby
455	WV Library Commission	536 Elk St.	Gassaway
456	WV Library Commission	5 Wharnccliffe Ave	Gilbert
457	WV Library Commission	214 Walnut St.	Glenville
458	WV Library Commission	200 Beech St.	Grafton
459	WV Library Commission	250 Mill St.	Grantsville
460	WV Library Commission	5683 Potomac Highland Trail	Green Bank
461	WV Library Commission	5556 Interstate Hwy.	Hanover
462	WV Library Commission	22526 Allagheny Highway	Harman
463	WV Library Commission	608 E. Main St.	Harrisville
464	WV Library Commission	207 North Mary St	Hedgesville
465	WV Library Commission	15 Main St.	Helvetia
466	WV Library Commission	54 Third St.	Hillsboro
467	WV Library Commission	3490 HORNET HIGHWAY	Hundred
468	WV Library Commission	368 Norway Ave.	Huntington
469	WV Library Commission	203 Richmond St.	Huntington
470	WV Library Commission	901 14th St.	Huntington
471	WV Library Commission	410 Midland Trail	Hurricane
472	WV Library Commission	120 West Virginia Ave.	Iarger
473	WV Library Commission	126 Excellence Way	Inwood
474	WV Library Commission	1200 Oak St.	Kenova
475	WV Library Commission	103 Main St.	Kermit
476	WV Library Commission	205 W. Main St.	Kingwood
477	WV Library Commission	1 Library Lane, Suite 1	Left Hand
478	WV Library Commission	6365 Cox Lane	Lesage
479	WV Library Commission	16 Wildcat Way	Logan
480	WV Library Commission	120 E. Main St.	Lost Creek
481	WV Library Commission	375 Main St.	Madison
482	WV Library Commission	511 E. McDonald Ave.	Man
483	WV Library Commission	8 Brown St.	Mason
484	WV Library Commission	97 First Ave.	Matawan
485	WV Library Commission	201 Marshall St.	McMechen
486	WV Library Commission	53 Nontrade St.	Meadow Bridge
487	WV Library Commission	301 BROAD ST	Middlebourne
488	WV Library Commission	9407 SENECA TRAIL	Mill Creek
489	WV Library Commission	1140 Smith St.	Milton
490	WV Library Commission	507 Ferry St.	Montgomery
491	WV Library Commission	121 Crosby Rd.	Morgantown
492	WV Library Commission	2005 Grafton Rd.	Morgantown

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
493	WV Library Commission	8455 Union Highway	Mount Storm
494	WV Library Commission	500 Main St.	Mt. Hope
495	WV Library Commission	102 Fourth St.	Mullen's
496	WV Library Commission	210 So. Court St.	New Cumberland
497	WV Library Commission	106 Main St.	New Haven
498	WV Library Commission	24 Fire Branch Ave.	Northfork
499	WV Library Commission	1300 Buckhannon Pike	Nutter Fort
500	WV Library Commission	1519 Cook Parkway	Oceana
501	WV Library Commission	114 So. Fourth Ave.	Paden City
502	WV Library Commission	301 Walnut St.	Parsons
503	WV Library Commission	250 Moser Ave.	Paw Paw
504	WV Library Commission	411 Main St.	Pennsboro
505	WV Library Commission	23 College Dr.	Peterstown
506	WV Library Commission	1 Childs Ave.	Piedmont
507	WV Library Commission	1 Main St.	Pine Grove
508	WV Library Commission	124 Castle Rock Ave.	Pineville
509	WV Library Commission	2858 Charleston Rd.	Poca
510	WV Library Commission	494 John Slack Cir.	Racine
511	WV Library Commission	378 7th St.	Rainelle
512	WV Library Commission	323 Virginia St.	Ravenswood
513	WV Library Commission	8 White Ave.	Richwood
514	WV Library Commission	712 W. Main St.	Ronceverte
515	WV Library Commission	713 Nicholas St.	Rupert
516	WV Library Commission	8871 WV Rt. 23	Salem
517	WV Library Commission	5575 Madison Creek Rd.	Salt Rock
518	WV Library Commission	440 Flattop Rd.	Shady Spring
519	WV Library Commission	100 E. German Ave.	Shepherdstown
520	WV Library Commission	40 Bridge St.	Shinnston
521	WV Library Commission	518 Wells St.	Sistersville
522	WV Library Commission	116 Snowshoe Dr.	Slatyfork
523	WV Library Commission	1713 Blizzard Dr. So.	Parkersburg
524	WV Library Commission	103 First St.	Sophia
525	WV Library Commission	110 Parking Plaza	Spencer
526	WV Library Commission	101 Lafayette St.	St. Marys
527	WV Library Commission	49 Church St.	Summit Point
528	WV Library Commission	500 Main St.	Sutton
529	WV Library Commission	701B E. State Ave.	Terra Alta
530	WV Library Commission	384 2nd St	Thomas
531	WV Library Commission	103 South St.	Union
532	WV Library Commission	US Rt. 219 S.	Valley Head
533	WV Library Commission	2 Cunningham Lane	Walton
534	WV Library Commission	701 Berwind Lake Rd.	War
535	WV Library Commission	250 Virginia St.	Waverly
536	WV Library Commission	325 Keyser St.	Wayne
537	WV Library Commission	331 S. Main St.	Webster Springs
538	WV Library Commission	90 Howard St.	Welch
539	WV Library Commission	945 Main St.	Wellsburg
540	WV Library Commission	148 Court Ave.	Weston
541	WV Library Commission	38487 Pond Fork Rd.	Wharton
542	WV Library Commission	208 W. Main St.	White Sulphur Springs
543	WV Library Commission	38175 Coal River Rd.	Whitesville
544	WV Library Commission	101 Logan St.	Williamson
545	WV Library Commission	201 W. 5th St.	Williamstown
546	WV Library Commission	4120 Fairmont Rd.	Morgantown
547	WV Library Commission	600 Commerce St.	Bluefield
548	WV Library Commission	1150 Route 20 South Rd.	Buckhannon
549	WV Library Commission	416 Davis Ave.	Elkins
550	WV Library Commission	7999 Lynn Ave.	Hamlin
551	WV Library Commission	151 Polk St.	Harpers Ferry
552	WV Library Commission	201 Temple St.	Hinton
553	WV Library Commission	4219 St. Rt. 34	Hurricane
554	WV Library Commission	105 N. Main St.	Keyser

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
555	WV Library Commission	152 Robert W. McCormick Dr.	Lewisburg
556	WV Library Commission	500 8th St.	Marlinton
557	WV Library Commission	102 N. Main St.	Moorefield
558	WV Library Commission	373 Spruce St.	Morgantown
559	WV Library Commission	700 Fifth St.	Moundsville
560	WV Library Commission	160 Washington St.	New Martinsville
561	WV Library Commission	611 Main St.	Oak Hill
562	WV Library Commission	18 Mt. View St.	Petersburg
563	WV Library Commission	102 So. Main St.	Philippi
564	WV Library Commission	508 Viand St.	Point Pleasant
565	WV Library Commission	208 N. Church St.	Ripley
566	WV Library Commission	153 W. Main St.	Romney
567	WV Library Commission	312 4th Ave.	South Charleston
568	WV Library Commission	6201 Webster Rd.	Summersville
569	WV Library Commission	2300 River Road	Vienna
570	WV Library Commission	117 Court St.	West Union
571	WV Library Commission	221 N. Kanawha St.	Beckley
572	WV Library Commission	404 W. Pike St.	Clarksburg
573	WV Library Commission	455 9th St.	Huntington
574	WV Library Commission	101 W. King St.	Martinsburg
575	WV Library Commission	3100 Emerson Ave.	Parkersburg
576	WV Library Commission	3442 Main St.	Weirton

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
Core	OOT Core	1900 Kanawha Blvd, East, Building 6	Charleston
Core	OOT Core	200 West Main Street	Clarksburg
1	Bureau of Employment Programs (BEP)	300 New River Town Center	Beckley
2	Bureau of Employment Programs (BEP)	16 Sterling Drive	Bridgeport
3	Bureau of Employment Programs (BEP)	1321 Plaza East	Charleston
4	Bureau of Employment Programs (BEP)	1023 N Randolph Ave	Elkins
5	Bureau of Employment Programs (BEP)	2699 Park Avenue, Suite 240	Huntington
6	Bureau of Employment Programs (BEP)	3554 Teaya Valley Rd,	Hurricane
7	Bureau of Employment Programs (BEP)	21 Red Oaks Shopping Center	Lewisburg
8	Bureau of Employment Programs (BEP)	300 Prosperity Lane Suite 277	Logan
9	Bureau of Employment Programs (BEP)	891 Auto Parts Place, Suite 1314	Martinsburg
10	Bureau of Employment Programs (BEP)	151 Robert C Byrd Industrial Park Road, suite 1	Moorefield
11	Bureau of Employment Programs (BEP)	304 Scott Ave	Morgantown
12	Bureau of Employment Programs (BEP)	257 North State Route 2,	New Martinsville
13	Bureau of Employment Programs (BEP)	300 Lakeview Center	Parkersburg
14	Bureau of Employment Programs (BEP)	225 Sixth Street	Point Pleasant
15	Bureau of Employment Programs (BEP)	195 Davis Street	Princeton Bluefield
16	Bureau of Employment Programs (BEP)	830 Northside Drive, Suite 123	Summersville
17	Bureau of Employment Programs (BEP)	100 Municipal Plaza, Suite 300	Weirton
18	Bureau of Employment Programs (BEP)	110 Park Ave. Suite 100	Welch
19	Bureau of Employment Programs (BEP)	1275 Warwood Ave.	Wheeling
20	Bureau of Employment Programs (BEP)	120 West 1st Avenue	Williamson
21	Rehabilitation Services	800 New River Town Center	Beckley
22	Rehabilitation Services	500 Quarrier Street, Suite 500	Charleston
23	Rehabilitation Services	107 Capitol St	Charleston
24	Rehabilitation Services	4701 MacCorkle Ave. SE	Kanawha City
25	Rehabilitation Services	107 Cambridge Place	Clarksburg
26	Rehabilitation Services	1025 North Randolph Avenue	Elkins
27	Rehabilitation Services	2699 Park Ave, Suite 200	Huntington
28	Rehabilitation Services	1004 Baron Drive	Institute
29	Rehabilitation Services	67 North Tornado Way	Keyser
30	Rehabilitation Services	777 N. Jefferson St	Lewisburg
31	Rehabilitation Services	891 Auto Parts Place, Suite 131	Martinsburg
32	Rehabilitation Services	151 Robert C Byrd Industrial Park Road, suite 3	Moorefield
33	Rehabilitation Services	124 South High St	Morgantown
34	Rehabilitation Services	316 Howard Ave	Mullens
35	Rehabilitation Services	10 McJunkin Road	Nitro
36	Rehabilitation Services	549 Mall Road	Oak Hill
37	Rehabilitation Services	400 5th St	Parkersburg
38	Rehabilitation Services	195 Davis St	Princeton
39	Rehabilitation Services	209 5th St	Pt Pleasant
40	Rehabilitation Services	24939 Northwestern Pike	Romney
41	Rehabilitation Services	714 Wells St	Sistersville
42	Rehabilitation Services	321 Market St	Spencer
43	Rehabilitation Services	830 Northside Drive, Suite 113	Summersville
44	Rehabilitation Services	100 Municipal Plaza, Suite 200	Weirton
45	Rehabilitation Services	110 Park Ave	Welch
46	Rehabilitation Services	100 Market Place Plaza, Suite 3B	Weston
47	Department of Environmental Protection (DEP)	101 Cambridge Place	Bridgeport
48	Department of Environmental Protection (DEP)	601 57th Street, SE	Charleston
49	Department of Environmental Protection (DEP)	4994 Elk River Road	Elkview
50	Department of Environmental Protection (DEP)	2031 Pleasant Valley Rd	Fairmont
51	Department of Environmental Protection (DEP)	Route 20 South	French Creek
52	Department of Environmental Protection (DEP)	367 Gus Douglas Lane	Charleston
53	Department of Environmental Protection (DEP)	1101 George Kostas Dr.	Logan
54	Department of Environmental Protection (DEP)	254 Industrial Drive	Oak Hill
55	Department of Environmental Protection (DEP)	2311 Ohio Ave.	Parkersburg
56	Department of Environmental Protection (DEP)	105 South Railroad Street	Phillippi
57	Department of Environmental Protection (DEP)	22288 Northwestern Pike,	Romney
58	Department of Environmental Protection (DEP)	18 Putnam Village	Teays Valley
59	Department of Environmental Protection (DEP)	331 Court St. Suite 204	Welch

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
60	Department of Environmental Protection (DEP)	131A Peninsula St	Wheeling
61	Tax & Revenue	1206 Quarrier St	Charleston
62	Tax & Revenue	1001 Lee Street	Charleston
63	Tax & Revenue	1124 Smith Street	Charleston
64	Tax & Revenue	1900 Kanawha Blvd E., West Wing - Capitol Complex 3 rd Fl	Charleston
65	Tax & Revenue	407 Neville St, Suite 109	Beckley
66	Tax & Revenue	200 West Main Street	Clarksburg
67	Tax & Revenue	2699 Park Ave, Suite 230	Huntington
68	Tax & Revenue	397 Mid Atlantic Parkway	Martinsburg
69	Tax & Revenue	400 5 th Street	Parkersburg
70	Tax & Revenue	40 14 th Street, Suite 101	Wheeling
71	Department of Motor Vehicles (DMV)	107 Pinecrest Dr.	Beckley
72	Department of Motor Vehicles (DMV)	105 Platinum Dr. Suite D	Bridgeport
73	Department of Motor Vehicles (DMV)	24 Ruland Rd.	Kearneysville
74	Department of Motor Vehicles (DMV)	1356 Hansford Street	Charleston
75	Department of Motor Vehicles (DMV)	1900 Kanawha Blvd East	Charleston
76	Department of Motor Vehicles (DMV)	1029 N Randolph Ave.	Elkins
77	Department of Motor Vehicles (DMV)	209 Marion Square	Fairmont
78	Department of Motor Vehicles (DMV)	295 Skidmore Lane	Flatwoods
79	Department of Motor Vehicles (DMV)	100 Thorn Creek Road, Suite 300	Franklin
80	Department of Motor Vehicles (DMV)	208 Hale Street	Charleston
81	Department of Motor Vehicles (DMV)	801 Madison Ave.	Huntington
82	Department of Motor Vehicles (DMV)	14 Kanawha Mall	Kanawha City
83	Department of Motor Vehicles (DMV)	148 Maplewood Ave	Lewisburg
84	Department of Motor Vehicles (DMV)	428 Main Street	Logan
85	Department of Motor Vehicles (DMV)	38 Severna Parkway	Martinsburg
86	Department of Motor Vehicles (DMV)	410 South Main Street	Moorefield
87	Department of Motor Vehicles (DMV)	1525 Deckers Creek Blvd.	Morgantown
88	Department of Motor Vehicles (DMV)	400 Teletech Dr. Ste 100	Moundsville
89	Department of Motor Vehicles (DMV)	627 Lubeck Avenue	Parkersburg
90	Department of Motor Vehicles (DMV)	198 Davis Street	Princeton
91	Department of Motor Vehicles (DMV)	1408 Kanawha Street	Pt. Pleasant
92	Department of Motor Vehicles (DMV)	1806 Washington Street	Records
93	Department of Motor Vehicles (DMV)	22278 Northwestern Pike	Romney
94	Department of Motor Vehicles (DMV)	115 Church Street	Spencer
95	Department of Motor Vehicles (DMV)	Suite 100 Municipal Plaza Route 2 and Cove Rd.	Weirton
96	Department of Motor Vehicles (DMV)	92 McDowell Street	Welch
97	Department of Motor Vehicles (DMV)	2800 Eoff Street	Wheeling
98	Department of Motor Vehicles (DMV)	225 E. 3 rd Ave.	Williamson
99	Department of Motor Vehicles (DMV)	116 Liberty Square	Hurricane
100	Department of Transportation (DOT)	10800 Northwestern Turnpike	New Creek
101	Department of Transportation (DOT)	1121 N Randolph Ave	Elkins
102	Department of Transportation (DOT)	1510 Grafton Road	Morgantown
103	Department of Transportation (DOT)	1317 Hansford St	Charleston
104	Department of Transportation (DOT)	1510 Kanawha Blvd E	Charleston
105	Department of Transportation (DOT)	300 Capitol Street, Sutes 1010 & 1002	Charleston
106	Department of Transportation (DOT)	146 Stonehouse Road	Lewisburg
107	Department of Transportation (DOT)	2120 Northwestern Turnpike	Burlington
108	Department of Transportation (DOT)	8174 Old Logan Rd	Chapmanville
109	Department of Transportation (DOT)	1 DOT Dr	Moundsville
110	Department of Transportation (DOT)	624 Depot St	Parkersburg
111	Department of Transportation (DOT)	2462 Murphys Run Rd	Bridgeport
112	Department of Transportation (DOT)	120 Water Plant Dr	Moorefield
113	Department of Transportation (DOT)	269 Charleston Rd	Spencer
114	Department of Transportation (DOT)	56 DOH Drive	Romney
115	Department of Transportation (DOT)	119 Railcross Rd	Clarksburg
116	Department of Transportation (DOT)	937 US Route 19 South	Weston
117	Department of Transportation (DOT)	281 Tunnel Hill Rd	Salem
118	Department of Transportation (DOT)	368 Old Route 73	Bruceton Mills
119	Department of Transportation (DOT)	95 Goshen Rd	Morgantown
120	Department of Transportation (DOT)	3870 National Rd	Triadelphia
121	Department of Transportation (DOT)	1 Highway Garage Rd	Williamson

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
122	Department of Transportation (DOT)	4476 Triplett Ridge Rd	Clay
123	Department of Transportation (DOT)	410 South Main St	Moorefield
124	Department of Health and Human Services (DHHR)	1 Jerry Lane	Augusta
125	Department of Health and Human Services (DHHR)	74 Periwinkle Lane	Barboursville
126	Department of Health and Human Services (DHHR)	407 Neville Street	Beckley
127	Department of Health and Human Services (DHHR)	1600 Harper Road	Beckley
128	Department of Health and Human Services (DHHR)	100 East Prince Street	Beckley
129	Department of Health and Human Services (DHHR)	106 S. Eisenhower Dr	Beckley
130	Department of Health and Human Services (DHHR)	228 Ragland Road	Beckley
131	Department of Health and Human Services (DHHR)	192 Industrial Park Lane	Beech Bottom
132	Department of Health and Human Services (DHHR)	84 1 Regal Court	Berkeley Springs
133	Department of Health and Human Services (DHHR)	187 South Green Street	Berkeley Springs
134	Department of Health and Human Services (DHHR)	1644 Valley Road	Berkeley Springs
135	Department of Health and Human Services (DHHR)	34 Auction Lane	Buckhannon
136	Department of Health and Human Services (DHHR)	15 North Locust Street	Buckhannon
137	Department of Health and Human Services (DHHR)	33 Southfork Plaza Drive	Buckhannon
138	Department of Health and Human Services (DHHR)	408 Alexander Street	Cedar Grove
139	Department of Health and Human Services (DHHR)	239 Willow Springs Dr	Charles Town
140	Department of Health and Human Services (DHHR)	231 Capitol Street, Suite 200	Charleston
141	Department of Health and Human Services (DHHR)	1716 Pennsylvania Ave	Charleston
142	Department of Health and Human Services (DHHR)	101 Dee Dr.	Charleston
143	Department of Health and Human Services (DHHR)	619 Virginia Street W	Charleston
144	Department of Health and Human Services (DHHR)	800 Pennsylvania Ave	Charleston
145	Department of Health and Human Services (DHHR)	1900 Virginia St	Charleston
146	Department of Health and Human Services (DHHR)	350 Capitol St	Charleston
147	Department of Health and Human Services (DHHR)	231 Capitol Street	Charleston
148	Department of Health and Human Services (DHHR)	1321 Plaza East	Charleston
149	Department of Health and Human Services (DHHR)	4710 Chimney Drive	Charleston
150	Department of Health and Human Services (DHHR)	108 Lee Street	Charleston
151	Department of Health and Human Services (DHHR)	Kanawa Blvd	Charleston
152	Department of Health and Human Services (DHHR)	900 Bullit Street	Charleston
153	Department of Health and Human Services (DHHR)	808 B Street, Suite G	Charleston
154	Department of Health and Human Services (DHHR)	1012 Kanawha Blvd East	Charleston
155	Department of Health and Human Services (DHHR)	1701 5th Avenue	Charleston
156	Department of Health and Human Services (DHHR)	633 West Pike Street	Charleston
157	Department of Health and Human Services (DHHR)	110 North Sixth Street, Suite 3	Clarksburg
158	Department of Health and Human Services (DHHR)	115 South 4th Street	Clarksburg
159	Department of Health and Human Services (DHHR)	330 West Main Street	Clarksburg
160	Department of Health and Human Services (DHHR)	315 North Ohio Avenue	Clarksburg
161	Department of Health and Human Services (DHHR)	104 East Main Street, Colonial Village, Suite 2C	Clarksburg
162	Department of Health and Human Services (DHHR)	94 Main Street	Clay
163	Department of Health and Human Services (DHHR)	452 Main Street	Clay
164	Department of Health and Human Services (DHHR)	213 Kenmore Drive	Danville
165	Department of Health and Human Services (DHHR)	4190 W. Washington St	Dunbar
166	Department of Health and Human Services (DHHR)	124 Court St, Suite 3	Elizabeth
167	Department of Health and Human Services (DHHR)	88 Senior Circle	Elizabeth
168	Department of Health and Human Services (DHHR)	1027 North Randolph Avenue	Elkins
169	Department of Health and Human Services (DHHR)	230 Heavner Ave	Elkins
170	Department of Health and Human Services (DHHR)	201 Henry Avenue	Elkins
171	Department of Health and Human Services (DHHR)	1200 Harrison Avenue	Elkins
172	Department of Health and Human Services (DHHR)	107 Davis Street	Elkins
173	Department of Health and Human Services (DHHR)	300 Second Street	Fairmont
174	Department of Health and Human Services (DHHR)	401 Guffey Street	Fairmont
175	Department of Health and Human Services (DHHR)	Hennen Building, 118 Adams Street, Suites 201A	Fairmont
176	Department of Health and Human Services (DHHR)	532 Pennsylvania Avenue	Fairmont
177	Department of Health and Human Services (DHHR)	1400 Virginia Street	Fayetteville
178	Department of Health and Human Services (DHHR)	202 Church Street	Fayetteville
179	Department of Health and Human Services (DHHR)	156 Resource Lane, Foster, WV	Foster
180	Department of Health and Human Services (DHHR)	100 Thorn Creek Road, Suite 200	Franklin
181	Department of Health and Human Services (DHHR)	223 Mill Road	Franklin
182	Department of Health and Human Services (DHHR)	299 Confederate Road	Franklin
183	Department of Health and Human Services (DHHR)	71 Wayne St	Ft Gay

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
184	Department of Health and Human Services (DHHR)	537 Enterprise Drive	Gassaway
185	Department of Health and Human Services (DHHR)	1493 WV Highway 5 East	Glennville
186	Department of Health and Human Services (DHHR)	809 Mineral Road	Glennville
187	Department of Health and Human Services (DHHR)	212- 1 East Main Street	Glennville
188	Department of Health and Human Services (DHHR)	235 Barrett Street	Grafton
189	Department of Health and Human Services (DHHR)	718 West Main Street	Grafton
190	Department of Health and Human Services (DHHR)	4 Hamon Center	Grafton
191	Department of Health and Human Services (DHHR)	101 Beach Street	Grafton
192	Department of Health and Human Services (DHHR)	85 Industrial Drive	Grantsville
193	Department of Health and Human Services (DHHR)	186 Hospital Dr	Grantsville
194	Department of Health and Human Services (DHHR)	8209 Court Avenue	Hamlin
195	Department of Health and Human Services (DHHR)	8008 Court Avenue	Hamlin
196	Department of Health and Human Services (DHHR)	220 W. Main Street	Harrisville
197	Department of Health and Human Services (DHHR)	125 West Main Street	Harrisville
198	Department of Health and Human Services (DHHR)	151 Pleasant Street	Hinton
199	Department of Health and Human Services (DHHR)	312 Third Avenue	Hinton
200	Department of Health and Human Services (DHHR)	320 Summers St, Suite A	Hinton
201	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
202	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
203	Department of Health and Human Services (DHHR)	1530 Norway Avenue	Huntington
204	Department of Health and Human Services (DHHR)	2699 Park Avenue - Suite 100	Huntington
205	Department of Health and Human Services (DHHR)	703 7th Street	Huntington
206	Department of Health and Human Services (DHHR)	611 7th Avenue	Huntington
207	Department of Health and Human Services (DHHR)	5187 US Route 80 East Ste. #12	Huntington
208	Department of Health and Human Services (DHHR)	1948 Wiltshire Road	Kearneysville
209	Department of Health and Human Services (DHHR)	1585 Cornell Street	Keyser
210	Department of Health and Human Services (DHHR)	Harley O Staggers, Sr Drive	Keyser
211	Department of Health and Human Services (DHHR)	18351 Veterans Memorial Highway	Kingwood
212	Department of Health and Human Services (DHHR)	106 West Main Street	Kingwood
213	Department of Health and Human Services (DHHR)	60 Albright Rd Suite #2	Kingwood
214	Department of Health and Human Services (DHHR)	150 Maplewood Avenue	Lewisburg
215	Department of Health and Human Services (DHHR)	108 Back Valley Road	Lindsie
216	Department of Health and Human Services (DHHR)	130 Stratton Street	Logan
217	Department of Health and Human Services (DHHR)	300 Stratton St	Logan
218	Department of Health and Human Services (DHHR)	19 Circle Drive Rm. 214	Logan
219	Department of Health and Human Services (DHHR)	102 Third St	Logan
220	Department of Health and Human Services (DHHR)	2 Edray Business Park	Marlinton
221	Department of Health and Human Services (DHHR)	900 Tenth Avenue	Marlinton
222	Department of Health and Human Services (DHHR)	819 Third Avenue	Marlinton
223	Department of Health and Human Services (DHHR)	433 Mid-Atlantic Parkway	Martinsburg
224	Department of Health and Human Services (DHHR)	800 South Queen Street	Martinsburg
225	Department of Health and Human Services (DHHR)	321 A Lutz Avenue	Martinsburg
226	Department of Health and Human Services (DHHR)	99 Tavern Road	Martinsburg
227	Department of Health and Human Services (DHHR)	33 Mountain Heart Lane	Mathery
228	Department of Health and Human Services (DHHR)	210 Main Street	Middlebourne
229	Department of Health and Human Services (DHHR)	149 Robert C. Byrd Industrial Park Road	Moorefield
230	Department of Health and Human Services (DHHR)	411 Spring Avenue, Suite 101	Moorefield
231	Department of Health and Human Services (DHHR)	721 North Main Street, Suite 105,	Moorefield
232	Department of Health and Human Services (DHHR)	114 South High Street	Morgantown
233	Department of Health and Human Services (DHHR)	1000 Elmer W. Prince Drive	Morgantown
234	Department of Health and Human Services (DHHR)	190 Hartfield Road	Morgantown
235	Department of Health and Human Services (DHHR)	965 Hartman Run Road	Morgantown
236	Department of Health and Human Services (DHHR)	400 Teltech Drive, Suite 2	Moundsville
237	Department of Health and Human Services (DHHR)	500 Teltech Drive	Moundsville
238	Department of Health and Human Services (DHHR)	100 North Court Street	New Cumberland
239	Department of Health and Human Services (DHHR)	1236 North State Route 2	New Martinsville
240	Department of Health and Human Services (DHHR)	1822 E. Main St	Oak Hill
241	Department of Health and Human Services (DHHR)	26 Trinity Lane	Oceana
242	Department of Health and Human Services (DHHR)	425 South Fourth Avenue	Paden City
243	Department of Health and Human Services (DHHR)	430 South 2nd Avenue	Paden City
244	Department of Health and Human Services (DHHR)	400 5th Street	Parkersburg
245	Department of Health and Human Services (DHHR)	211 Sixth Street	Parkersburg

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
246	Department of Health and Human Services (DHHR)	4421 Emerson Avenue, Suite 102	Parkersburg
247	Department of Health and Human Services (DHHR)	9346 Seneca Trail	Parsons
248	Department of Health and Human Services (DHHR)	53 Kiess Drive	Petersburg
249	Department of Health and Human Services (DHHR)	23 Hospital Drive	Petersburg
250	Department of Health and Human Services (DHHR)	93 South Grove Street	Petersburg
251	Department of Health and Human Services (DHHR)	209 South Main Street	Phillipi
252	Department of Health and Human Services (DHHR)	49 Mattaliano Drive	Phillipi
253	Department of Health and Human Services (DHHR)	23 Wabash Avenue	Phillipi
254	Department of Health and Human Services (DHHR)	1767 Bearhole Road	Pineville
255	Department of Health and Human Services (DHHR)	Bank and 44 Cedar Street	Pineville
256	Department of Health and Human Services (DHHR)	710 Vland Street	Point Pleasant
257	Department of Health and Human Services (DHHR)	216 5th St	Point Pleasant
258	Department of Health and Human Services (DHHR)	701 22nd Street	Point Pleasant
259	Department of Health and Human Services (DHHR)	200 Davis Street	Princeton
260	Department of Health and Human Services (DHHR)	978 Blue Prince Road	Princeton
261	Department of Health and Human Services (DHHR)	1411 North Waalker Street	Princeton
262	Department of Health and Human Services (DHHR)	107 East Fourth Avenue	ranson
263	Department of Health and Human Services (DHHR)	2139 Cedar Lakes Road	Ripley
264	Department of Health and Human Services (DHHR)	504 South Church Street	Ripley
265	Department of Health and Human Services (DHHR)	600 South Church St, Suite 2	Ripley
266	Department of Health and Human Services (DHHR)	Route 50 East	Romney
267	Department of Health and Human Services (DHHR)	24940 North Western Pike	Romney
268	Department of Health and Human Services (DHHR)	9207 Seneca Trail, South	Ronceverte
269	Department of Health and Human Services (DHHR)	25 Red Oak Shopping Center	Ronceverte
270	Department of Health and Human Services (DHHR)	214 W Edgar Ave.	Ronceverte
271	Department of Health and Human Services (DHHR)	22 Herbert avenue	Smithburg
272	Department of Health and Human Services (DHHR)	313 Maccorkle Ave SW	South Charleston
273	Department of Health and Human Services (DHHR)	677 Ripley Road, Suite 3	Spencer
274	Department of Health and Human Services (DHHR)	200 Main Street	Spencer
275	Department of Health and Human Services (DHHR)	1655 South Pleasants Highway	St. Marys
276	Department of Health and Human Services (DHHR)	605 Cherry St	St. Marys
277	Department of Health and Human Services (DHHR)	707 Professional Park Drive	Summersville
278	Department of Health and Human Services (DHHR)	1 Steven Road	Summersville
279	Department of Health and Human Services (DHHR)	1020 Broad St.	Summersville
280	Department of Health and Human Services (DHHR)	852 Northside Drive, Suite 22	Summersville
281	Department of Health and Human Services (DHHR)	1936 Sutton Lane	Sutton
282	Department of Health and Human Services (DHHR)	495 1/2 Old Turnpike Road	Sutton
283	Department of Health and Human Services (DHHR)	19 Putnam Village Shopping Center	Teays Valley
284	Department of Health and Human Services (DHHR)	150 Hopemont Dr	Terra Alta
285	Department of Health and Human Services (DHHR)	174 Route 3	Union
286	Department of Health and Human Services (DHHR)	1301 34th Street	Vienna
287	Department of Health and Human Services (DHHR)	26452 E Lynn Rd	Wayne
288	Department of Health and Human Services (DHHR)	590 Railroad Avenue	Wayne
289	Department of Health and Human Services (DHHR)	203 Kenova Avenue	Wayne
290	Department of Health and Human Services (DHHR)	110 North Main Street	Webster Springs
291	Department of Health and Human Services (DHHR)	324 Miller Mountain Drive, Suite A	Webster Springs
292	Department of Health and Human Services (DHHR)	80 North Main Street	Webster Springs
293	Department of Health and Human Services (DHHR)	100 Municipal Plaza, Suite 600	Weirton
294	Department of Health and Human Services (DHHR)	3622 B West Street	Weirton
295	Department of Health and Human Services (DHHR)	2619 Pennsylvania Av, Suite 1	Weirton
296	Department of Health and Human Services (DHHR)	840 Virginia Avenue	Welch
297	Department of Health and Human Services (DHHR)	454 McDowell Street	Welch
298	Department of Health and Human Services (DHHR)	830 Virginia Avenue	Welch
299	Department of Health and Human Services (DHHR)	17 McDowell Street	Welch
300	Department of Health and Human Services (DHHR)	632 Main Street	Wellsburg
301	Department of Health and Human Services (DHHR)	11522 Ohio River Road	West Columbia
302	Department of Health and Human Services (DHHR)	60 Pennsylvania Street	West Union
303	Department of Health and Human Services (DHHR)	91 Arnold Avenue	Weston
304	Department of Health and Human Services (DHHR)	125 Court Avenue	Weston
305	Department of Health and Human Services (DHHR)	239 Court Street	Weston
306	Department of Health and Human Services (DHHR)	936 Sharpe Hospital Road	Weston
307	Department of Health and Human Services (DHHR)	2 Brown Ave.	Weston

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
308	Department of Health and Human Services (DHHR)	69 16th Street	Wheeling
309	Department of Health and Human Services (DHHR)	1500 Chapline Street, Rm 106	Wheeling
310	Department of Health and Human Services (DHHR)	1060 Chapline Street	Wheeling
311	Department of Health and Human Services (DHHR)	1025 Main Street, Suite 510	Wheeling
312	Department of Health and Human Services (DHHR)	45 18th Street	Wheeling
313	Department of Health and Human Services (DHHR)	203 East 3rd. Avenue	Williamson
314	Department of Health and Human Services (DHHR)	First Ave & Logan St, 2nd Floor	Williamson
315	Department of Health and Human Services (DHHR)	215 Logan Street, Suite 40	Williamson
316	Department of Health and Human Services (DHHR)	3405 Winfield Road	Winfield
317	Department of Health and Human Services (DHHR)	3282 WINFIELD RD UNIT BUS 2	WINFIELD
318	Department of Health and Human Services (DHHR)	3406 Winfield Rd.	Winfield
319	Department of Natural Resouces (DNR)	1336 State Street	Gassaway
320	Department of Natural Resouces (DNR)	1110 Railroad Street	Farmington
321	Department of Natural Resouces (DNR)	4055 Pigeon Creek Road	Oakvale
322	Department of Natural Resouces (DNR)	3405 Pipestem Drive	Pipestem
323	Department of Natural Resouces (DNR)	1584 Black Water Lodge Road	Davis
324	Department of Natural Resouces (DNR)	Route 67 Saulsville Mountain Road	Mullins
325	Department of Natural Resouces (DNR)	1240 Paul E. Malone Road	Grafton
326	Department of Natural Resouces (DNR)	2006 Robert C Byrd Drive	Beckley
327	Department of Natural Resouces (DNR)	738 Ward Road	Elkins
328	Department of Natural Resouces (DNR)	1 Depot Street	Romney
329	Department of Natural Resouces (DNR)	1163 Wildlife Road	Point Pleasant
330	Department of Natural Resouces (DNR)	324 4th Avenue	South Charleston
331	Department of Natural Resouces (DNR)	4300 1st Avenue	Nitro
332	Department of Natural Resouces (DNR)	818 Cacapon Lodge Drive	Berkley Springs
333	Department of Natural Resouces (DNR)	5601 Long Branch Road	Barboursville
334	Division of Corrections (Corrections)	313 Anthony Center Dr.	White Sulphur Springs
335	Division of Corrections (Corrections)	999 11th St.	Moundsville
336	Division of Corrections (Corrections)	3225 Robert C Byrd Drive	Beckley
337	Division of Corrections (Corrections)	3049 Robert C. Byrd Drive Suite 100	Beckley
338	Division of Corrections (Corrections)	1336 Plaza East	Charleston
339	Division of Corrections (Corrections)	607 Brooks St	Charleston
340	Division of Corrections (Corrections)	215 West Main St	Clarksburg
341	Division of Corrections (Corrections)	4318 Denmar Rd	Hillsboro
342	Division of Corrections (Corrections)	1200 Harrison Avenue	Elkins
343	Division of Corrections (Corrections)	1513 Harrison Ave	Elkins
344	Division of Corrections (Corrections)	103 Academy Street	Glenville
345	Division of Corrections (Corrections)	1236 5th Ave	Huntington
346	Division of Corrections (Corrections)	601 Madison Ave. Room 202	Huntington
347	Division of Corrections (Corrections)	Route 250 South	Huttonsville
348	Division of Corrections (Corrections)	102 North Main St	Keyser
349	Division of Corrections (Corrections)	11264 Ohio River Rd	West Columbia
350	Division of Corrections (Corrections)	101 S. Court St	Lewisburg
351	Division of Corrections (Corrections)	229 Stratton St. Room 306	Logan
352	Division of Corrections (Corrections)	38 Grapevine Road	Martinsburg
353	Division of Corrections (Corrections)	1520 Winchester Ave	Martinsburg
354	Division of Corrections (Corrections)	50 Court St.	Welch
355	Division of Corrections (Corrections)	901 6th St	Moundsville
356	Division of Corrections (Corrections)	1 Mountainside Way	Mt Olive
357	Division of Corrections (Corrections)	112 Northern Regional Correctional Drive	Moundsville
358	Division of Corrections (Corrections)	1501 Eoff St	Wheeling
359	Division of Corrections (Corrections)	225 Holiday Hills	Parkersburg
360	Division of Corrections (Corrections)	159 Davis Street	Princeton
361	Division of Corrections (Corrections)	2006 Trap Springs Road	Grafton
362	Division of Corrections (Corrections)	117 Court St	Ripley
363	Division of Corrections (Corrections)	2880 N. Pleasants Highway St	St. Marys
364	Division of Corrections (Corrections)	795 Virginia Ave	Welch
365	Division of Corrections (Corrections)	110 Park Ave, Suite 111	Welch
366	Division of Corrections (Corrections)	1025 Main St	Wheeling
367	Regional Jails	1 O'Hanlon Place	Barboursville
368	Regional Jails	1 Lois Lane	Greenwood
369	Regional Jails	300 Days Drive	Sutton

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
370	Regional Jails	112 Northern Regional Correctional Drive	Moundsville
371	Regional Jails	13 Dolin Dr	Augusta
372	Regional Jails	400 Abbey Rd	Belington
373	Regional Jails	94 grapevine Road	Martinsburg
374	Regional Jails	13 Gaston Caperton Dr.	Holden
375	Office of Technology (OOT)	1900 Kanawha Blvd East	Charleston
376	Office of Technology (OOT) [Aviation]	502 Eagle Mountain Rd.	Charleston
377	Office of Technology (OOT) [Armory]	1703 Coonskin Dr.	Charleston
378	Office of Technology (OOT) [Banking]	One Players Club Dr., Suite 300	Charleston
379	Office of Technology (OOT) [Boards and Commissions]	1201 Dunbar Avenue	Dunbar
380	Office of Technology (OOT) [Boards and Commissions]	80 12th Street,	Wheeling
381	Office of Technology (OOT) [Boards and Commissions]	405 Capitol St., Suite 800	Charleston
382	Office of Technology (OOT) [Boards and Commissions]	2310 Kanawha Boulevard East	Charleston
383	Office of Technology (OOT) [Boards and Commissions]	1700 MacCorkle Ave. SE	Charleston
384	Office of Technology (OOT) [Boards and Commissions]	416 Airport Road	Sutton
385	Office of Technology (OOT) [Boards and Commissions]	3003 Charleston Town Center, Third Floor	Charleston
386	Office of Technology (OOT) [Boards and Commissions]	405 Capitol Street, Suite 906	Charleston
387	Office of Technology (OOT) [Boards and Commissions]	900 Pennsylvania Avenue	Charleston
388	Office of Technology (OOT) [Boards and Commissions]	300 Capitol Street, Suite 400	Charleston
389	Office of Technology (OOT) [Center for Professional Dev]	208 Hale Street	Charleston
390	Office of Technology (OOT) [VA Nursing Home]	One Freedoms Way	Clarksburg
391	Office of Technology (OOT) [Commerce]	1116 Smith Street	Charleston
392	Office of Technology (OOT) [Consolidated Buildings]	153 West Main Street	Clarksburg
393	Office of Technology (OOT) [Culture and History]	801 Jefferson Ave	Moundsville
394	Office of Technology (OOT) [Juvenile Services -DJS]	69 Factory Street	Clarksburg
395	Office of Technology (OOT) [Juvenile Services -DJS]	1200 Quarrier St	Charleston
396	Office of Technology (OOT) [Juvenile Services -DJS]	2 Walden Roush Way	Point Pleasant
397	Office of Technology (OOT) [Juvenile Services -DJS]	901 Shelter Road	Princeton
398	Office of Technology (OOT) [Juvenile Services -DJS]	843 Shelter Road	Princeton
399	Office of Technology (OOT) [Juvenile Services -DJS]	467 Main Street	Madison
400	Office of Technology (OOT) [Juvenile Services -DJS]	150 Hopemont Drive	Terra Alta
401	Office of Technology (OOT) [Juvenile Services -DJS]	907 Mission Drive	Parkersburg
402	Office of Technology (OOT) [Juvenile Services -DJS]	106 Martin Drive	Mt Hope
403	Office of Technology (OOT) [Juvenile Services -DJS]	2 O'Hanlon Place	Barboursville
404	Office of Technology (OOT) [Juvenile Services -DJS]	60 Manfred Holland Way	Dunbar
405	Office of Technology (OOT) [Juvenile Services -DJS]	One Lory Place	Julian
406	Office of Technology (OOT) [Juvenile Services -DJS]	900 Emmett Rousch Drive	Martinsburg
407	Office of Technology (OOT) [Juvenile Services -DJS]	1000 Chapline St	Wheeling
408	Office of Technology (OOT) [Juvenile Services -DJS]	141 Forestry Camp Road	Davis
409	Office of Technology (OOT) [Juvenile Services -DJS]	1186 N.Mildred Street, Ste. 101-102	Ranson
410	Office of Technology (OOT) [Juvenile Services -DJS]	3551-1/2 Main Street	Weirton
411	Office of Technology (OOT) [Juvenile Services -DJS]	11125 Route 52	Wayne
412	Office of Technology (OOT) [Juvenile Services -DJS]	1014 So. Raleigh Street,	Martinsburg
413	Office of Technology (OOT) [Forestry]	1106 Railroad Street	Farmington
414	Office of Technology (OOT) [Forestry]	878 E Main St	Milton
415	Office of Technology (OOT) [General Services]	808 Bullit Street	Charleston
416	Office of Technology (OOT) [Mine Safety and Health]	1615 Washington Street East	Charleston
417	Office of Technology (OOT) [Mine Safety and Health]	691 Stewart Street	Welch
418	Office of Technology (OOT) [Mine Safety and Health]	14 Commerce Dr., Suite 1	Morgantown
419	Office of Technology (OOT) [Mine Safety and Health]	550 Industrial Dr.	Oak Hill
420	Office of Technology (OOT) [Mine Safety and Health]	137 Peach Court	Danville
421	Office of Technology (OOT) [Pension Board]	1700 MacCorkle Ave. SE	Charleston
422	Office of Technology (OOT) [NCO-Volunteer]	710 Central Avenue	Charleston
423	Office of Technology (OOT) [Office of Admin Hearings]	300 Capitol Street, Suite 1010	Charleston
424	Office of Technology (OOT) [Surplus Property]	2700 Charles Ave	Dunbar
425	WV Library Commission	308 Walnut Avenue	Alderson
426	WV Library Commission	214 Midway Rd.	Alum Creek
427	WV Library Commission	102 Oak St.	Ansted
428	WV Library Commission	4120 Fairmont Rd.	Morgantown
429	WV Library Commission	6760 Ashton Upland Rd.	Ashton
430	WV Library Commission	510 Elliot Ave.	Belington

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
431	WV Library Commission	2059 Mason-Dixon Highway	Blacksville
432	WV Library Commission	10002 Marshall Highway	Bradshaw
433	WV Library Commission	4 Mile Creek Rd.	Branchland
434	WV Library Commission	105 E. Main St.	Buckkannon
435	WV Library Commission	3530 Buffalo Rd.	Buffalo
436	WV Library Commission	14 Hope Lane	Burlington
437	WV Library Commission	235 Kanawha St.	Burnsville
438	WV Library Commission	44 Main St. Benedum Bldg.	Cameron
439	WV Library Commission	2987 Northwestern Pike	Capon Bridge
440	WV Library Commission	299 Vance St.	Chapmanville
441	WV Library Commission	601 Railroad St.	Chester
442	WV Library Commission	614 Main St.	Clay
443	WV Library Commission	47 Mill St.	Cowen
444	WV Library Commission	63 Library Lane	Craigsville
445	WV Library Commission	495 WV Route 65	Delbarton
446	WV Library Commission	4348 Staunton Parkersburg Tpk.	Durbin
447	WV Library Commission	500 Roosevelt Blvd.	Eleanor
448	WV Library Commission	411 Mulberry St.	Elizabeth
449	WV Library Commission	1255 T. J. Jackson Dr.	Falling Waters
450	WV Library Commission	200 W. Maple Ave.	Fayetteville
451	WV Library Commission	844 Main St.	Follansbee
452	WV Library Commission	8608 R. Broadway	Fort Gay
453	WV Library Commission	256 N. Main St.	Franklin
454	WV Library Commission	57 Presidents St.	Ft. Ashby
455	WV Library Commission	536 Elk St.	Gassaway
456	WV Library Commission	5 Wharnccliffe Ave	Gilbert
457	WV Library Commission	214 Walnut St.	Glennville
458	WV Library Commission	200 Beech St.	Grafton
459	WV Library Commission	250 Mill St.	Grantsville
460	WV Library Commission	5683 Potomac Highland Trail	Green Bank
461	WV Library Commission	5556 Interstate Hwy.	Hanover
462	WV Library Commission	22526 Allegheny Highway	Harman
463	WV Library Commission	608 E. Main St.	Harrisville
464	WV Library Commission	207 North Mary St	Hedgesville
465	WV Library Commission	15 Main St.	Helvetia
466	WV Library Commission	54 Third St.	Hillsboro
467	WV Library Commission	3490 HORNET HIGHWAY	Hundred
468	WV Library Commission	368 Norway Ave.	Huntington
469	WV Library Commission	203 Richmond St.	Huntington
470	WV Library Commission	901 14th St.	Huntington
471	WV Library Commission	410 Midland Trail	Hurricane
472	WV Library Commission	120 West Virginia Ave.	Iarger
473	WV Library Commission	126 Excellence Way	Inwood
474	WV Library Commission	1200 Oak St.	Kenova
475	WV Library Commission	103 Main St.	Kermit
476	WV Library Commission	205 W. Main St.	Kingwood
477	WV Library Commission	1 Library Lane, Suite 1	Left Hand
478	WV Library Commission	6365 Cox Lane	Lesage
479	WV Library Commission	16 Wildcat Way	Logan
480	WV Library Commission	120 E. Main St.	Lost Creek
481	WV Library Commission	375 Main St.	Madison
482	WV Library Commission	511 E. McDonald Ave.	Man
483	WV Library Commission	8 Brown St.	Mason
484	WV Library Commission	97 First Ave.	Matawan
485	WV Library Commission	201 Marshall St.	McMechen
486	WV Library Commission	53 Nontrade St.	Meadow Bridge
487	WV Library Commission	301 BROAD ST	Middlebourne
488	WV Library Commission	9407 SENECA TRAIL	Mill Creek
489	WV Library Commission	1140 Smith St.	Milton
490	WV Library Commission	507 Ferry St.	Montgomery
491	WV Library Commission	121 Crosby Rd.	Morgantown
492	WV Library Commission	2005 Grafton Rd.	Morgantown

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
493	WV Library Commission	8455 Union Highway	Mount Storm
494	WV Library Commission	500 Main St.	Mt. Hope
495	WV Library Commission	102 Fourth St.	Mullen's
496	WV Library Commission	210 So. Court St.	New Cumberland
497	WV Library Commission	106 Main St.	New Haven
498	WV Library Commission	24 Fire Branch Ave.	Northfork
499	WV Library Commission	1300 Buckhannon Pike	Nutter Fort
500	WV Library Commission	1519 Cook Parkway	Oceana
501	WV Library Commission	114 So. Fourth Ave.	Paden City
502	WV Library Commission	301 Walnut St.	Parsons
503	WV Library Commission	250 Moser Ave.	Paw Paw
504	WV Library Commission	411 Main St.	Pennsboro
505	WV Library Commission	23 College Dr.	Peterstown
506	WV Library Commission	1 Childs Ave.	Piedmont
507	WV Library Commission	1 Main St.	Pine Grove
508	WV Library Commission	124 Castle Rock Ave.	Pineville
509	WV Library Commission	2858 Charleston Rd.	Poca
510	WV Library Commission	494 John Slack Cir.	Racine
511	WV Library Commission	378 7th St.	Rainelle
512	WV Library Commission	323 Virginia St.	Ravenswood
513	WV Library Commission	8 White Ave.	Richwood
514	WV Library Commission	712 W. Main St.	Ronceverte
515	WV Library Commission	713 Nicholas St.	Rupert
516	WV Library Commission	8871 WV Rt. 23	Salem
517	WV Library Commission	5575 Madison Creek Rd.	Salt Rock
518	WV Library Commission	440 Flattop Rd.	Shady Spring
519	WV Library Commission	100 E. German Ave.	Shepherdstown
520	WV Library Commission	40 Bridge St.	Shinnston
521	WV Library Commission	518 Wells St.	Sistersville
522	WV Library Commission	116 Snowshoe Dr.	Slatyfork
523	WV Library Commission	1713 Blizzard Dr. So.	Parkersburg
524	WV Library Commission	103 First St.	Sophia
525	WV Library Commission	110 Parking Plaza	Spencer
526	WV Library Commission	101 Lafayette St.	St. Marys
527	WV Library Commission	49 Church St.	Summit Point
528	WV Library Commission	500 Main St.	Sutton
529	WV Library Commission	701B E. State Ave.	Terra Alta
530	WV Library Commission	384 2nd St	Thomas
531	WV Library Commission	103 South St.	Union
532	WV Library Commission	US Rt. 219 S.	Valley Head
533	WV Library Commission	2 Cunningham Lane	Walton
534	WV Library Commission	701 Berwind Lake Rd.	War
535	WV Library Commission	250 Virginia St.	Waverly
536	WV Library Commission	325 Keyser St.	Wayne
537	WV Library Commission	331 S. Main St.	Webster Springs
538	WV Library Commission	90 Howard St.	Welch
539	WV Library Commission	945 Main St.	Wellsburg
540	WV Library Commission	148 Court Ave.	Weston
541	WV Library Commission	38487 Pond Fork Rd.	Wharton
542	WV Library Commission	203 W. Main St.	White Sulphur Springs
543	WV Library Commission	38175 Coal River Rd.	Whitesville
544	WV Library Commission	101 Logan St.	Williamson
545	WV Library Commission	201 W. 5th St.	Williamstown
546	WV Library Commission	4120 Fairmont Rd.	Morgantown
547	WV Library Commission	600 Commerce St.	Bluefield
548	WV Library Commission	1150 Route 20 South Rd.	Buckhannon
549	WV Library Commission	416 Davis Ave.	Elkins
550	WV Library Commission	7999 Lynn Ave.	Hamlin
551	WV Library Commission	151 Polk St.	Harpers Ferry
552	WV Library Commission	201 Temple St.	Hinton
553	WV Library Commission	4219 St. Rt. 34	Hurricane
554	WV Library Commission	105 N. Main St.	Keyser

State of WV - OOT Controlled Sites and Libraries Implementation List

Seq.	VLAN Site	Address	City
555	WV Library Commission	152 Robert W. McCormick Dr.	Lewisburg
556	WV Library Commission	500 8th St.	Marlinton
557	WV Library Commission	102 N. Main St.	Moorefield
558	WV Library Commission	373 Spruce St.	Morgantown
559	WV Library Commission	700 Fifth St.	Moundsville
560	WV Library Commission	160 Washington St.	New Martinsville
561	WV Library Commission	611 Main St.	Oak Hill
562	WV Library Commission	18 Mt. View St.	Petersburg
563	WV Library Commission	102 So. Main St.	Philippi
564	WV Library Commission	508 Viand St.	Point Pleasant
565	WV Library Commission	208 N. Church St.	Ripley
566	WV Library Commission	153 W. Main St.	Romney
567	WV Library Commission	312 4th Ave.	South Charleston
568	WV Library Commission	6201 Webster Rd.	Summersville
569	WV Library Commission	2300 River Road	Vienna
570	WV Library Commission	117 Court St.	West Union
571	WV Library Commission	221 N. Kanawha St.	Beckley
572	WV Library Commission	404 W. Pike St.	Clarksburg
573	WV Library Commission	455 9th St.	Huntington
574	WV Library Commission	101 W. King St.	Martinsburg
575	WV Library Commission	3100 Emerson Ave.	Parkersburg
576	WV Library Commission	3442 Main St.	Weirton



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE
1

BLANKET RELEASE
00

CORRECT PURCHASE ORDER NUMBER MUST APPEAR ON ALL PACKAGES, INVOICES, AND SHIPPING PAPERS. QUESTIONS CONCERNING THIS PURCHASE ORDER SHOULD BE DIRECTED TO THE BUYER AS NOTED BELOW.

CHANGE ORDER

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

AGENCY COPY

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1410 MACCORKLE AVE SE
 CHARLESTON WV 25314

DATE PRINTED	TERMS OF SALE	FEDERATION	FUND
08/01/2007	NET 30	470751768	
SHIP VIA	FBI	FREIGHT TERMS	ACCOUNT NUMBER
BEST WAY	DESTINATION	PREPAID	MUL-MUL
LINE	QUANTITY	UOP	VENDOR ITEM NO.
	DELIVERY DATE	CAT NO	ITEM NUMBER
0001	12/21/2006		205-18
STATEWIDE CONTRACT			
OPEN END			
MULTI PROTOCOL LABEL SWITCHING (MPLS) VIRTUAL PRIVATE NETWORK (VPN) SERVICES & ASSOCIATED SERVICES			
THIS CONTRACT IS TO BE IN ACCORDANCE WITH THE PURCHASE ORDER AS ISSUED BY THE DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION, ANY ADDENDA, THE ORIGINAL REQUEST FOR PROPOSAL AND THE RESPONSE TO THE PROPOSAL AS PROVIDED BY VERIZON BUSINESS SERVICES.			
			PURCHASING DIVISION CERTIFIED ENCUMBERED AUG 08 2007 <i>Jadkins</i>
			OPEN END
			TOTAL 304-558-0492

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

APPROVED FOR
[Signature]
 APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY *[Signature]* RON PRICE
 PURCHASING DIVISION AUTHORIZED SIGNATURE
 8/1/07

Any Federal and/or State mandated regulatory charges and/or fees from which the State of West Virginia is not exempt, will apply as required.

State of West Virginia

Request for Proposal #

Bidder Name:

Verizon Business



Price Comparison Sheet 1

Circuit Access Unit Pricing: Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note* MPLS Core and Peripheral Edges are zero dollar charges, cost for all MPLS CORE and Peripheral Edge is paid thru postalized circuit pricing

Write cells are fields where you enter your values

Type of Circuit	QTY	Third Party NRC	NRC Spread	Port Access only/perm	MPLS Carrier NRC	NRC Spread	Cost/minute	Monthly \$ per min	Total Annual Cost
IP TRUNK For Cisco T-1 Interface 16 Voice path's plus data	1				\$750.00	\$15.53	\$1,011.50	\$1,027.13	\$12,325.50
IP Trunk for Ethernet 10 meg 100 simultaneous calls	1				\$750.00	\$15.53	\$4,880.00	\$4,895.53	\$58,347.50
IP TRUNK For Ethernet 10 Meg 200 Simultaneous calls	1				\$750.00	\$15.53	\$8,880.00	\$8,895.53	\$108,387.50
IP TRUNK For Ethernet 10 Meg 400 Simultaneous calls	1				\$750.00	\$15.53	\$17,280.40	\$17,216.03	\$206,592.30
IP TRUNK For T-1, PRI minimum 40 Simultaneous calls	1				\$750.00	\$15.53	\$1,770.00	\$1,785.53	\$21,427.50
Cost per minute LD over 1200 min per voice path (e.g. \$0.02)	1 min				\$0.00	\$0.00	\$0.02	\$0.02	\$0.28
Hosted IP Telephone Service meeting min Mandatory's as described in the RFP (see 1200 LD minutes)*	1				\$7.50	\$0.18	\$18.08	\$18.24	\$194.84
Cost per minute for LD over 1200 minutes* (e.g. \$0.02)	1 min				\$0.00	\$0.00	\$0.02	\$0.02	\$0.28
Hosted as above with standard VM per RFP*	1				\$7.50	\$0.18	\$20.58	\$20.74	\$248.94
Hosted as above with integrated messaging per RFP*	1				\$7.50	\$0.18	\$18.08	\$18.24	\$194.84
Transport ADSL "B.E."	1	\$0.00	\$0.00	N/A **	\$100.00	\$2.08	\$60.00	\$52.08	\$625.00
Transport SDSL "B.E."	1	\$0.00	\$0.00	N/A **	\$325.00	\$6.67	\$120.00	\$128.67	\$1,520.00
T-1 Clear Channel "B.E."	1	\$0.00	\$0.00	\$430.00	\$0.00	\$0.00	\$485.00	\$919.00	\$10,980.00
T-1 Clear Channel "R.T."	1	\$0.00	\$0.00	\$430.00	\$0.00	\$0.00	\$510.00	\$940.00	\$11,280.00
FR T-1 768kb burst to full T-1	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$431.22	\$431.22	\$5,174.84
FR T-1 768kb burst to full T-1	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$431.22	\$431.22	\$5,174.84
DS-0 FR 5K 28Kbps min str	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$157.62	\$157.62	\$1,891.44
DS-0 FR 5K 28Kbps min str	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$157.62	\$157.62	\$1,891.44
DS-0 Clear Channel	1	\$0.00	\$0.00	\$99.00	\$0.00	\$0.00	\$188.80	\$285.80	\$3,430.60
DS-0 Clear Channel	1	\$0.00	\$0.00	\$99.00	\$0.00	\$0.00	\$178.80	\$275.80	\$3,309.60
Switched Ethernet 10Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$1,834.40	\$1,971.90	\$23,662.80
Switched Ethernet 10Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$2,307.20	\$2,344.70	\$28,138.40
Switched Ethernet 10Meg Redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$2,819.40	\$2,819.40	\$33,832.80
Switched Ethernet 10Meg Redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$3,182.20	\$3,182.20	\$38,206.40
DS-3 FR 22 Mbps min str	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$3,703.71	\$3,703.71	\$44,444.52
DS-3 FR 22 Mbps min str	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$3,703.71	\$3,703.71	\$44,444.52

DS-3 Clear Channel	1	\$0.00	\$0.00	\$3,125.00	\$0.00	\$0.00	\$4,251.00	\$7,378.20	\$18,538.40
DS-3 Clear Channel	1	\$0.00	\$0.00	\$3,125.00	\$0.00	\$0.00	\$5,647.00	\$8,773.60	\$105,282.20
Switched Ethernet 100Mbps	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$4,025.00	\$4,082.50	\$48,788.00
Switched Ethernet 100Mbps	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$5,420.00	\$5,457.50	\$15,484.00
Switched Ethernet 100Mbps redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$8,025.00	\$8,025.00	\$10,500.00
Switched Ethernet 100Mbps redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$8,420.00	\$8,420.00	\$77,044.00
Switched OC-3	1	\$0.00	\$0.00	\$7,480.00	\$0.00	\$0.00	\$11,030.00	\$18,516.00	\$222,120.00
Switched OC-3	1	\$0.00	\$0.00	\$7,480.00	\$0.00	\$0.00	\$12,425.40	\$19,905.40	\$230,564.00
Switched OC-3 redundant local loop/true Sonet ring	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$11,030.00	\$11,030.00	\$132,360.00
Switched OC-3 redundant local loop/true Sonet ring	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$12,425.40	\$12,425.40	\$149,104.00
Switched Ethernet 1Gigabit	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$16,588.00	\$16,803.00	\$199,342.00
Switched Ethernet 1Gigabit	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$18,356.00	\$18,354.30	\$232,721.00
Switched Ethernet 1Gigabit local loop redundant	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$18,288.00	\$18,288.00	\$218,182.00
Switched Ethernet 1Gigabit local loop redundant	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$21,038.80	\$21,038.80	\$282,601.00

Total Cost per column		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		\$0.00	\$0.00	\$22,271.20	\$14,992.50	\$312.34	\$208,857.39	\$229,440.93	\$2,753,291.16

Additional Notes:

*This is for cost comparison purposes only.

8 points: Total Monthly costs

Note: Column I and J - Unit Prices must match the Unit Prices on all charts, i.e. Unit Prices per Access type and Speed and CoS may not vary from year or by location. The State is aware that there are most CoS's available and that 5 are actually requested in the RFP, but for evaluation purposes we are looking at only "Best Effort" and "Real Time".

All Red Print are to be placed "Real-time CoS" intended for Voice and Video use.

Port Access Charge only is the charge the Vendor will charge another 3rd party carrier to plug into the network.
not express prices (in dollars)

* As described in the RFP, each voice path on IP trunks and Host IP voice service comes with 1,200 nationwide toll-free minutes. These minutes are for the cost per minute above 1,200 minutes per voice path.

** Verizon only offers port access speeds to 3rd party carriers at entire TDM speeds. DS-0, DS-1, DS-3, & OC-3. These charges include the digital cross connect (DXC)'s port charges along with the PIF port charges. Gold CAR can also be added to these ports.



Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note: MPLS Core and Peripheral Edges are zero-dollar charges, cost for all MPLS CORE and Peripheral Edges to paid thru post-billed circuit pricing

Write cells are fields where you enter your values

Item Description	QTY	LAT1000	LAT1500	LAT2000	LAT3000	Unit Price	Material	Monthly Fee (excl. tax)	Annual Fee (excl. tax)	12-Month Total (excl. tax)	12-Month Total (incl. tax)	12-Month Total (incl. tax)	12-Month Total (incl. tax)
IP TRUNK For Cisco T-1 interface 16 Voice ports plus data	10	1	3	4	2								
IP TRUNK For Ethernet 10 Meg 100 simultaneous calls	4	1	1	1	1					\$750.00	\$150.00	\$1,015.00	\$10,115.00
IP TRUNK For Ethernet 10 Meg 200 simultaneous calls	5	1	2	2	1					\$750.00	\$25.00	\$4,080.00	\$16,725.00
IP TRUNK For Ethernet 10 Meg 400 simultaneous calls	1	0	0	1	0					\$750.00	\$50.75	\$8,850.00	\$83,100.00
IP TRUNK For T-1, PRI minimum 40 simultaneous calls	8	1	2	3	2					\$750.00	\$15.83	\$17,200.40	\$17,200.40
Trunks: Cost per minute for LD over 1200 minutes per path* (e.g. 30.02)	1000									\$750.00	\$125.00	\$1,770.00	\$14,180.00
DID Numbers (Block of 1000)	1									\$0.00	\$0.00	\$2.00	\$23.00
Hosted IP Telephone Service meeting min Mandatory's	400	75	80	115	75					\$250.00	\$8.21	\$281.00	\$281.00
Hosted as above with standard VM per RFP*	400	75	85	115	75					\$7.50	\$2.50	\$18.00	\$8,432.00
Hosted as above with integrated voicemail per RFP*	200	25	75	80	15					\$7.50	\$2.50	\$20.00	\$8,282.00
Cost per minute for LD over 1200 minutes* (e.g. 30.02)	400									\$7.50	\$31.25	\$18.00	\$3,215.00
										\$0.00	\$0.00	\$0.00	\$0.00
Transport ADSL ("Best Effort CoS only")	175	40	55	60	20	\$0.00	\$0.00	N/A **	N/A **	\$100.00	\$304.88	\$50.00	\$8,780.00
Transport SDSL ("Best Effort CoS Only")	50	10	15	20	5	\$0.00	\$0.00	N/A **	N/A **	\$200.00	\$333.50	\$125.00	\$8,000.00
T-1 Clear Channel	25	4	5	6	6	\$0.00	\$0.00	\$400.00	\$125,000.00	\$0.00	\$0.00	\$0.00	\$72,000.00
T-1 Clear Channel	50	15	15	20	10	\$0.00	\$0.00	\$400.00	\$309,800.00	\$0.00	\$0.00	\$485.00	\$145,800.00
FR T-1 768kb burst in full T-1	400	80	100	200	80	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$510.00	\$30,800.00
FR T-1 768kb burst in full T-1	600	70	125	275	75	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$431.33	\$772,488.00	\$2,193,179.00
DS-0 FR 56K 281bps rate ch	300	18	125	172	18	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.32	\$280,732.00
DS-0 FR 56K 281bps rate ch	30	10	15	18	10	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$157.82	\$31,524.00
DS-0 Clear Channel	31	3	10	11	5	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$157.82	\$7,881.00
DS-0 Clear Channel	6	1	2	3	1	\$0.00	\$0.00	\$98.00	\$38,820.00	\$0.00	\$0.00	\$168.00	\$8,170.00
Switched Ethernet 10Meg	3	1	1	1	0	\$0.00	\$0.00	\$93.00	\$7,128.00	\$0.00	\$0.00	\$778.00	\$1,000.00
Switched Ethernet 10Meg	10	2	4	5	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$112.00	\$1,834.40	\$5,608.20
Switched Ethernet 10Meg Redundant local loop	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$375.00	\$2,307.20	\$9,072.00
Switched Ethernet 10Meg Redundant local loop	4	1	1	2	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,816.40	\$79,814.00
DS-3 PR 22 Mbps rate ch	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,682.20	\$12,783.00
DS-3 PR 22 Mbps rate ch	4	1	2	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,708.71	\$7,407.42
DS-3 Clear Channel	4	1	1	1	1	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,708.71	\$14,814.84
DS-3 Clear Channel	2	0	1	1	0	\$0.00	\$0.00	\$650,070.00	\$650,070.00	\$0.00	\$0.00	\$4,231.80	\$17,808.40
Switched Ethernet 100Meg	4	1	1	1	1	\$0.00	\$0.00	\$9,128.00	\$73,028.40	\$0.00	\$0.00	\$5,847.00	\$11,284.00
Switched Ethernet 100Meg	11	1	4	5	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$150.00	\$4,285.00	\$13,284.00
Switched Ethernet 100Meg redundant local loop	1	0	1	0	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$412.00	\$3,420.40	\$9,024.40
Switched Ethernet 100Meg redundant local loop	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,028.00	\$6,028.00
Switched OC-3	1	0	1	0	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$6,420.40	\$12,440.80
Switched OC-3	1	0	0	1	0	\$0.00	\$0.00	\$7,480.00	\$89,780.00	\$0.00	\$0.00	\$11,800.00	\$12,800.00
Switched OC-3 redundant local loop/transport Sonet ring	2	0	1	1	0	\$0.00	\$0.00	\$7,480.00	\$89,780.00	\$0.00	\$0.00	\$12,425.40	\$14,425.40
Switched OC-3 redundant local loop/transport Sonet ring	0	0	0	0	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$11,000.00	\$12,000.00
Switched Ethernet 1Gbit/s	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$12,425.40	\$0.00
										\$1,800.00	\$37.50	\$10,888.00	\$10,888.00

Switched Ethernet 10Gbps	2	1	1	1	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$75.00	\$18,258.00	\$30,713.00	\$491,493.00
Switched Ethernet 10Gbps local loop redundant	0	0	0	0	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$18,258.00	\$0.00	\$0.00
Switched Ethernet 10Gbps local loop redundant	1	0	0	1	1	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$21,000.00	\$21,000.00	\$281,493.00

Additional Notes:

*This is for cost comparison purposes only.

14 points: Total Monthly costs

Note: Column 1 and 4 - Unit Prices must match the Unit Prices on Chart #1, 1a, Unit Prices per Access Type and Speed and QoS may not vary from year to year or by location. The State is aware that there are more CoS's available and that 5 are actually requested.

See RFP for requirements of VoIP services and Toll free Local, In-State and National

All Real Time use to be priced "Real-Time CoS" interval for Voice and Video use.

All Block printed circuit access types are to be priced "Best Effort CoS"

Port Access Charge only is fee charge the Vendor will charge another 3rd party carrier to plug into the network.

NOR (spread period) (in minutes)

** As described in the RFP, each voice path on IP trunks and Host IP voice service access with 1,200 nationwide toll-free minutes. These minutes are for the cost per minute above 1,200 minutes per voice path.

** Various other offers and access speeds to 3rd party carriers at active TDS speeds. DS-0, DS-1, DS-3, & OC-3. These charges include the digital cross connect (DXC) port charges along with the PIP port charges. Gold ONT may also be added to these ports.

State of West Virginia

Request for Proposal

Verizon Business

Price Comparison Chart



Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note: MPLS Core and Peripheral Edges are zero dollar charges, cost for all MPLS CORE and Peripheral Edge is paid thru postpaid circuit pricing

White cells are fields where you enter your values

Type of Circuit	QTY	LAYERS	LAYERS	LAYERS	LAYERS	Third Party Rpt	3000 Spread	Monthly Port Access Fee/Chg	Per Circuit	MPLS Core/Port	Per Circuit	Per Minute	Total Monthly Cost	Total Annual Cost	
IP TRUNK For Cisco T-1 Interface 10 Video poll's plus data	15	4	4	7	2					\$750.00	\$250.00	\$1,011.00	\$15,164.00	\$184,261.50	
IP TRUNK For Ethernet 10 Meg 100 simultaneous calls	8	2	2	4	2					\$750.00	\$125.00	\$4,650.00	\$37,440.00	\$448,253.00	
IP TRUNK For Ethernet 10 Meg 200 simultaneous calls	8	2	2	3	1					\$750.00	\$125.00	\$3,900.00	\$30,800.00	\$369,399.00	
IP TRUNK For Ethernet 10 Meg 400 simultaneous calls	4	4	1	2	0					\$750.00	\$63.50	\$17,200.40	\$68,801.60	\$828,619.50	
IP TRUNK For T-1, PRI network 40 simultaneous calls	21	6	6	8	1					\$750.00	\$328.13	\$1,770.00	\$37,170.00	\$448,040.00	
Trunk: Cost per minute for LD over 1200 minutes per port* (e.g. \$2.02)	5000									\$0.00	\$0.00	\$0.02	\$115.00	\$1,365.00	
DID Number Block of 4000	1									\$1,000.00	\$20.00	\$1,124.00	\$1,124.00	\$13,488.00	
Hosted IP Telephony Service meeting min Mandatory's	600	175	200	300	75					\$7.50	\$125.00	\$18.00	\$12,804.00	\$154,208.00	
Hosted on above with standard VM per RFP*	600	150	200	300	150					\$7.50	\$125.00	\$20.00	\$15,494.00	\$187,698.00	
Hosted on above with integrated messaging per RFP*	400	75	100	200	25					\$7.50	\$82.50	\$18.00	\$9,432.00	\$117,168.00	
Cost per minute for LD over 1200 minutes* (e.g. \$2.02)	1000									\$0.00	\$0.00	\$0.02	\$20.00	\$240.00	
Transport ADSL ("Best Effort Cdn Only")	176	46	55	60	20		\$0.00	\$0.00	N/A **	N/A **	\$100.00	\$384.56	\$50.00	\$8,750.00	\$106,000.00
Transport ADSL ("Best Effort Cdn Only")	50	10	15	20	5		\$0.00	\$0.00	N/A **	N/A **	\$320.00	\$333.33	\$120.00	\$6,000.00	\$72,000.00
T-1 Clear Channel	25	4	5	9	5		\$0.00	\$430.00	\$128,000.00	\$0.00	\$0.00	\$408.00	\$12,125.00	\$146,893.00	
T-1 Clear Channel	100	35	25	40	10		\$0.00	\$430.00	\$918,000.00	\$0.00	\$0.00	\$515.00	\$51,000.00	\$612,000.00	
FR T-1 768kb burst to full T-1	400	50	100	200	50		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$173,488.00	
FR T-1 768kb burst to full T-1	500	75	175	275	75		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$230,732.00	
DS-0 FR 56K 28Kbps min cr	300	19	225	172	15		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$157.82	\$39,540.00	
DS-0 FR 56K 28Kbps min cr	300	10	15	18	10		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$157.82	\$47,861.00	
DS-0 Clear Channel	31	5	10	11	5		\$0.00	\$0.00	\$38.00	\$36,829.00	\$0.00	\$0.00	\$188.89	\$5,170.00	
DS-0 Clear Channel	6	1	2	2	1		\$0.00	\$0.00	\$99.00	\$7,128.00	\$0.00	\$0.00	\$176.50	\$1,000.00	
Switched Ethernet 100Meg	6	1	2	2	1		\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$225.00	\$1,834.40	\$11,006.40	
Switched Ethernet 100Meg	16	2	6	6	1		\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$582.00	\$2,307.20	\$34,608.00	
Switched Ethernet 100Meg Redundant local loop	4	1	2	2	0		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,618.40	\$11,277.60	
Switched Ethernet 100Meg Redundant local loop	10	3	4	6	3		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,162.20	\$47,883.00	
DS-3 PR 22 Mbps min cr	2	0	1	1	0		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$7,407.42	
DS-3 PR 22 Mbps min cr	8	1	3	4	1		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$33,303.39	
DS-3 Clear Channel	4	1	2	2	1		\$0.00	\$0.00	\$3,728.80	\$150,078.00	\$0.00	\$0.00	\$4,251.80	\$17,008.40	
DS-3 Clear Channel	5	2	3	3	1		\$0.00	\$0.00	\$3,128.00	\$300,193.00	\$0.00	\$0.00	\$5,847.00	\$45,178.00	
Switched Ethernet 1000Meg	6	2	2	4	2		\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$300.00	\$4,025.00	\$24,150.00	
Switched Ethernet 1000Meg	14	2	4	4	2		\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$225.00	\$5,435.40	\$78,095.60	
Switched Ethernet 1000Meg redundant local loop	1	1	2	2	1		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$5,025.00	\$5,025.00	
Switched Ethernet 1000Meg redundant local loop	3	1	1	1	0		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$6,435.40	\$18,201.20	
Switched OC-3	1	0	1	1	0		\$0.00	\$0.00	\$7,480.00	\$28,760.00	\$0.00	\$0.00	\$11,000.00	\$11,000.00	
Switched OC-3	1	0	0	1	0		\$0.00	\$0.00	\$7,480.00	\$28,760.00	\$0.00	\$0.00	\$12,435.40	\$12,435.40	
Switched OC-3 redundant local loop/true Sonet ring	2	0	1	1	0		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$11,000.00	\$22,000.00	
Switched OC-3 redundant local loop/true Sonet ring	0	0	0	0	0		\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$12,435.40	\$0.00	
Switched Ethernet 10Gbit	1	0	0	1	0		\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$37.50	\$18,900.00	\$18,900.00	

Switched Ethernet 10Gbps	4	1	1	2	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$180.00	\$18,258.00	\$77,427.20	\$989,128.40
Switched Ethernet 10Gbps local loop redundant	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$18,258.00	\$39,532.00	\$438,264.80
Switched Ethernet 10Gbps local loop redundant	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$21,058.00	\$21,058.00	\$282,481.60

Total						\$0.00	\$0.00			\$1,800.00	\$180.00	\$36,516.00	\$137,959.20	\$1,709,874.80
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Additional Notes:

*This is for cost comparison purposes only.

§ pricing: Total Monthly costs

Note: Column I and J - Unit Prices must match the Unit Prices on Chart #1, i.e. Unit Prices per Access type and Speed and Call may vary from year to year or by location. The Client is aware that there are most CoS's available and that S are actually requested in the RFP, but for evaluation purposes we are looking at only "Best Effort" and "Best Thru".
 One RFP for requirements of VoIP services and Toll Free Local, In-State and National

All Red Print are to be priced "Fixed-Rate Call" intended for Voice and Video use.

All Black printed circuit access types are to be priced "Best Effort Call"

Port Access Charge only is the charge the Vendor will charge another 3rd party carrier to plug into the network.

NCR Special pricing (in rounding) 45

** As described in the RFP, each voice path on IP trunks and Host IP voice service comes with 1,200 nationwide toll-free minutes. These services are for the cost per minute above 1,200 minutes per voice path.

** Verizon only offers port access speeds to 3rd party carriers at native TDM speeds. DS-4, DS-1, DS-3, & OC-3. These charges include the digital cross connect (DXC) port charges along with the PE port charges. Gold CDR can also be added to these ports.

State of West Virginia

Request for Proposal #

Summary of Worksheets

Bidder

Verizon Business



	Third Party NRC	NRC Spread	Monthly Port Access	Annual Port Access	MPLS Carrier NRC	NRC Spread	Unit Cost/month and or minute	Total monthly cost	Total Annual Cost
Price Comparison Chart 1	0	\$0.00	\$0.00	\$14,992.50	\$512.34	\$206,857.39	\$229,440.93	\$2,753,291.16	\$0.00
Price Comparison Chart 2	0	\$0.00	\$0.00	\$887,191.20	\$15,242.50	\$2,475.00	\$207,138.38	\$979,066.46	\$11,748,797.52
Price Comparison Chart 3	0	\$0.00	\$0.00	\$0.00	\$15,992.50	\$3,721.88	\$207,981.38	\$1,369,913.61	\$16,318,583.32
Total	\$0.00	\$0.00	\$0.00	\$902,183.70	\$31,547.34	\$213,054.26	\$644,560.70	\$6,092,271.23	\$28,087,780.84

Verizon Business has included an additional worksheet in Appendix B to identify the impact of utilizing the option of Local Only with metered toll offering proposed as an additional option to the State of West Virginia. This offering has been calculated into the IP Trunking options. The metered toll would be at .023 per minute. This will allow the State to better compare current PRI usage, which presently is an unbundled access product, with toll.

Verizon Business has also included the RT PIP pricing at 20% for the 10M and higher speeds asking for RT. With Verizon's Five Class of Service markings Standard on all ports, RT is not needed to support Video and is only needed for Voice. The Gold CAR adds the RT option to the port and can be purchased at any speed. We have utilized 20% to show the flexibility this offers the State versus having the complete Access Pipe and port speed marked as Real Time. This approach is much more realistic and flexible when dealing with large bandwidth access, offering premium customized services at the most economically feasible price.

State of West Virginia

Request for Proposal #

Bidder Name:

Verizon Business



Price Comparison Chart 1

Circuit Access Unit Pricing: Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note* MPLS Core and Peripheral Edges are zero dollar charges, cost for all MPLS CORE and Peripheral Edge is paid thru postpaid circuit pricing

White cells are fields where you enter your values

Type of Circuit	ATY	Third Party NRC	NRC Spread	Port Access per month	MPLS Carrier NRC	NRC Spread	Unit Cost per minute	Monthly \$ per unit	Total Annual Cost
IP TRUNK For Cisco T-1 Interface 16 Voice path's plus data	1				\$750.00	\$15.83	\$762.30	\$767.93	\$9,215.10
IP Trunk for Ethernet 10 meg 100 simultaneous calls	1				\$750.00	\$15.83	\$3,060.00	\$3,075.83	\$36,907.80
IP TRUNK For Ethernet 10 Meg 200 Simultaneous calls	1				\$750.00	\$15.83	\$5,610.00	\$5,625.83	\$67,507.80
IP TRUNK For Ethernet 10 Meg 400 Simultaneous calls	1				\$750.00	\$15.83	\$10,720.00	\$10,735.83	\$128,827.80
IP TRUNK For T-1, PRI minimum 40 Simultaneous calls	1				\$760.00	\$15.83	\$1,122.00	\$1,137.83	\$13,651.80
Cost per minute LD over 1200 min per voice path (e.g. \$0.02)	1 min				\$0.00	\$0.00	\$0.02	\$0.02	\$0.28
Cost per minute for LD over 1200 minutes* (e.g. \$0.02)	1				\$7.50	\$0.16	\$16.06	\$16.24	\$194.84
Cost per minute for LD over 1200 minutes* (e.g. \$0.02)	1 min				\$0.00	\$0.00	\$0.02	\$0.02	\$0.28
Hosted as above with standard VM per RFP*	1				\$7.50	\$0.16	\$20.88	\$20.74	\$248.84
Hosted as above with integrated messaging per RFP*	1				\$7.50	\$0.16	\$16.06	\$16.24	\$194.84
Transport ADSL "B.E."	1	\$0.00	\$0.00	N/A **	\$100.00	\$2.08	\$50.00	\$32.08	\$626.00
Transport SDSL "B.E."	1	\$0.00	\$0.00	N/A **	\$320.00	\$8.67	\$120.00	\$128.67	\$1,580.00
T-1 Clear Channel "B.E."	1	\$0.00	\$0.00	\$430.00	\$0.00	\$0.00	\$485.00	\$915.00	\$10,980.00
T-1 Clear Channel "R.T."	1	\$0.00	\$0.00	\$430.00	\$0.00	\$0.00	\$510.00	\$940.00	\$11,280.00
FR T-1 768cbr burst to full T-1	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$431.22	\$431.22	\$5,174.64
FR T-1 768cbr burst to full T-1	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$431.22	\$431.22	\$5,174.64
DS-0 FR 56K 28Kbps min cbr	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$157.82	\$157.82	\$1,891.44
DS-0 FR 56K 28Kbps min cbr	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$157.82	\$157.82	\$1,891.44
DS-0 Clear Channel	1	\$0.00	\$0.00	\$88.00	\$0.00	\$0.00	\$168.80	\$265.80	\$3,188.80
DS-0 Clear Channel	1	\$0.00	\$0.00	\$89.00	\$0.00	\$0.00	\$176.80	\$275.80	\$3,308.80
Switched Ethernet 10Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$1,834.40	\$1,871.90	\$22,462.80
Switched Ethernet 10Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$2,053.00	\$2,090.50	\$25,086.00
Switched Ethernet 10Meg Redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$2,819.40	\$2,819.40	\$33,832.80
Switched Ethernet 10Meg Redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$2,819.40	\$2,819.40	\$33,832.80
DS-3 FR 22 Mbps min cbr	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$3,703.71	\$3,703.71	\$44,444.82
DS-3 FR 22 Mbps min cbr	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$3,703.71	\$3,703.71	\$44,444.82

DS-3 Clear Channel	1	\$0.00	\$0.00	\$3,126.00	\$0.00	\$0.00	\$4,251.00	\$7,376.20	\$32,538.40
DS-3 Clear Channel	1	\$0.00	\$0.00	\$3,126.00	\$0.00	\$0.00	\$4,748.20	\$7,874.80	\$34,497.00
Switched Ethernet 100Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$4,025.00	\$4,062.50	\$44,788.00
Switched Ethernet 100Meg	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$4,956.50	\$4,994.30	\$50,331.00
Switched Ethernet 100Meg redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$8,025.00	\$8,025.00	\$88,380.00
Switched Ethernet 100Meg redundant local loop	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$8,956.50	\$8,956.50	\$71,401.00
Switched OC-3	1	\$0.00	\$0.00	\$7,480.00	\$0.00	\$0.00	\$11,030.00	\$18,510.00	\$222,120.00
Switched OC-3	1	\$0.00	\$0.00	\$7,480.00	\$0.00	\$0.00	\$12,275.80	\$19,755.80	\$237,088.00
Switched OC-3 redundant local loop/trunk Service ring	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$11,030.00	\$11,030.00	\$132,360.00
Switched OC-3 redundant local loop/trunk Service ring	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$12,275.80	\$12,275.80	\$147,368.00
Switched Ethernet 1Gigabit	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$16,586.00	\$16,603.50	\$194,242.00
Switched Ethernet 1Gigabit	1	\$0.00	\$0.00	N/A **	\$1,800.00	\$37.50	\$16,356.50	\$16,384.30	\$232,731.00
Switched Ethernet 1Gigabit local loop redundant	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$18,288.00	\$18,288.00	\$219,482.00
Switched Ethernet 1Gigabit local loop redundant	1	\$0.00	\$0.00	N/A **	\$0.00	\$0.00	\$21,086.00	\$21,086.00	\$262,881.00

Total Cost per minute	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$22,271.20	\$14,992.50	\$312.34	\$191,976.19	\$214,669.73	\$2,574,716.76	

Additional Notes:

*This is for cost comparison purposes only.

8 ports: Total Monthly costs

Note: Column I and J - Unit Prices must match the Unit Prices on all charts, i.e. Unit Prices per Access type and Speed and QoS may not vary from year or by location. The State is aware that there are most QoS's available and that 8 are actually requested in the RFP, but for evaluation purposes we are looking at only "Best Effort" and "Real Time".

All Red Print are to be priced "Real-time Cost" intended for Voice and Video use.

Port Access Charge only in the charge the Vendor will charge another 3rd party carrier to plug into the network.
recarga por hora (in months)

* As described in the RFP, each voice path on IP trunks and Host IP voice service comes with 1,200 nationwide toll-free minutes. These sections are for the cost per minute above 1,200 minutes per voice path.

** Verizon only offers port access speeds to 3rd party carriers at native TDM speeds. DS-0, DS-1, DS-3, & OC-3. These charges include the digital cross connect DXC's port charges along with the PIP port charges. Gold CAR can also be added to these ports.



Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note: MPLS Core and Peripheral Edges are zero dollar charges, cost for all MPLS CORE and Peripheral Edge is paid thru privatized circuit pricing

White cells are fields where you enter your value

Type of Circuit	QTY	LAN10M	LAN20M	LAN40M	LAN60M	Total Price (USD)	MPLS Core	Peripheral Edge	Annual Port Access	Annual Port Access	Annual Port Access	MPLS Core (USD)	Peripheral Edge (USD)	Total Monthly Cost	Total Annual Cost
IP TRUNK Per Cisco T-1 Interface 16 Voice paths plus data	10	1	3	4	2										
IP TRUNK For Ethernet 10 Mbg 100 simultaneous calls	4	1	1	1	1							\$758.00	\$198.25	\$752.50	\$7,633.00
IP TRUNK For Ethernet 10 Mbg 200 simultaneous calls	6	1	2	2	1							\$750.00	\$82.50	\$3,060.00	\$7,240.00
IP TRUNK For Ethernet 10 Mbg 400 simultaneous calls	1	0	0	1	0							\$750.00	\$93.75	\$5,670.00	\$3,860.00
IP TRUNK For T-1, PRI minimum 40 simultaneous calls	8	1	2	3	2							\$750.00	\$18.83	\$10,730.00	\$10,730.00
Trunk Cost per minute for LD over 1200 minutes per path* (e.g. \$0.02)	1000											\$750.00	\$125.00	\$1,125.00	\$8,970.00
DID Minutes Block of 1000	1											\$0.00	\$0.00	\$0.00	\$20.00
Hosted IP Telephony Service meeting min Mandatory's	400	75		115	75							\$250.00	\$8.21	\$281.00	\$281.00
Hosted as above with standard VM per RFP*	400	75	85	115	75							\$7.50	\$82.50	\$10.00	\$1,432.00
Hosted as above with integrated messaging per RFP*	200	25	75	85	15							\$7.50	\$82.50	\$30.50	\$1,232.00
Cost per minute for LD over 1200 minutes* (e.g. \$0.02)	400											\$0.00	\$0.00	\$0.00	\$0.00
Transport ADSL ("Best Effort Cost only")	175	40	55	80	20	\$0.00	\$0.00	N/A **	N/A **	\$100.00	\$304.70	\$50.00	\$0,790.00	\$10,000.00	
Transport DSL ("Best Effort Cost Only")	50	10	15	20	5	\$0.00	\$0.00	N/A **	N/A **	\$200.00	\$303.33	\$120.00	\$0,000.00	\$72,000.00	
T-1 Clear Channel	25	4	5	9	6	\$0.00	\$0.00	\$430.00	\$120,000.00	\$0.00	\$0.00	\$485.00	\$12,125.00	\$140,500.00	
T-1 Clear Channel	80	15	15	20	10	\$0.00	\$0.00	\$400.00	\$200,000.00	\$0.00	\$0.00	\$910.00	\$30,000.00	\$367,200.00	
FR T-1 768kb burst to full T-1	40	50	100	200	20	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$172,400.00	\$2,000,000.00	
FR T-1 768kb burst to full T-1	500	75	175	275	75	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$250,732.00	\$3,184,704.00	
DS-0 FR 56K 280kps min ct	200	10	125	172	18	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$187.62	\$37,824.00	\$478,880.00	
DS-0 FR 56K 280kps min ct	80	10	15	18	10	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$187.62	\$7,881.00	\$94,872.00	
DS-0 Clear Channel	5	1	2	2	1	\$0.00	\$0.00	\$80.00	\$30,000.00	\$0.00	\$0.00	\$170.00	\$5,170.00	\$12,400.00	
Switched Ethernet 10Mbg	3	1	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$112.50	\$1,934.40	\$3,002.20	\$60,050.40	
Switched Ethernet 10Mbg	10	2	4	5	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$303.00	\$2,093.00	\$20,930.00	\$249,360.00	
Switched Ethernet 10Mbg Reduced local loop	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,010.40	\$5,030.80	\$67,845.60	
Switched Ethernet 10Mbg Reduced local loop	4	1	1	2	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,030.00	\$11,702.00	\$141,000.00	
DS-3 FR 23 Mbps min ct	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$7,407.42	\$83,080.04	
DS-3 FR 23 Mbps min ct	4	1	2	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$14,814.84	\$177,770.80	
DS-3 Clear Channel	4	1	1	1	1	\$0.00	\$3,128.00	\$150,076.00	\$0.00	\$0.00	\$0.00	\$4,291.00	\$17,000.40	\$204,076.80	
DS-3 Clear Channel	2	0	1	1	0	\$0.00	\$3,128.00	\$75,038.00	\$0.00	\$0.00	\$0.00	\$4,748.20	\$8,496.40	\$118,560.00	
Switched Ethernet 100Mbg	4	1	1	1	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$180.00	\$4,025.00	\$18,100.00	\$193,500.00	
Switched Ethernet 100Mbg	11	1	4	5	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$412.50	\$4,356.00	\$84,824.00	\$84,287.60	
Switched Ethernet 100Mbg reduced local loop	1	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$5,025.00	\$5,025.00	\$42,200.00	
Switched Ethernet 100Mbg reduced local loop	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$5,050.00	\$5,050.00	\$42,200.00	
Switched OC-3	1	0	1	0	0	\$0.00	\$0.00	\$7,480.00	\$30,760.00	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$132,360.00	
Switched OC-3	1	0	1	0	0	\$0.00	\$0.00	\$7,480.00	\$30,760.00	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$147,200.00	
Switched OC-3 redundant local loop thru Span ring	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$12,275.00	\$12,275.00	\$147,200.00	
Switched OC-3 redundant local loop thru Span ring	0	0	0	0	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$132,360.00	
Switched Ethernet 1Gbps	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$12,275.00	\$0.00	\$0.00	

Switched Ethernet 1Gbps	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$75.00	\$18,300.00	\$38,713.00	\$44,881.25
Switched Ethernet 10Gbps local loop redundant	0	0	0	3	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$18,288.00	\$0.00	\$0.00
Switched Ethernet 10Gbps local loop redundant	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$21,558.00	\$21,636.00	\$23,694.00

Total Cost per column						\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
						\$0.00	\$0.00	\$22,271.25	\$237,191.25	\$15,840.00	\$2,475.00	\$182,537.18	\$237,587.28	\$11,128,527.18

Additional Notes:

*This is for cost comparison purposes only.

** Notes: Total Monthly costs

Note: Columns I and J - Unit Prices must match the Unit Prices on Chart #1, i.e. Unit Prices per Access type and Speed and Cost may not vary from year or by location. The State is aware that there are many QoSs available and that it is not actually requested.

See RFP for requirements of VoIP services and Toll Free Local, In-State and National

All Flat Fees are to be priced "Real-time Call" intended for Video and Video use.

All Block priced circuit access types are to be priced "Best Effort Cost"

Port Access Charge only is the charge the Vendor will charge another 3rd party carrier to plug into the network.

NCR Spread period (in months)

* As described in the RFP, each voice path on IP trunks and Host IP voice services comes with 1,200 nationwide toll-free minutes. These minutes are for the cost per minute above 1,200 minutes per voice path.

** Vendor only offers port access speeds in 3rd party carriers at native TDM speeds, DS-3/DS-4, & OC-3. These charges include the digital cross connected DDC's port charges along with the PP' port charges. Gold CAR may also be added to these ports.



Assume that the mandatory MPLS Core and Peripheral Specifications in RFP are met.

Note: MPLS Core and Peripheral Edge are zero dollar charges, cost for all MPLS CORE and Peripheral Edge is paid thru postpaid default pricing

White cells are fields where you enter your values

Type of circuit	QTY	LATA230	LATA235	LATA234	LATA232	UNIT PRICE/MIN	MINUTE	Monthly Fee Amount	Annual Fee Amount	RFP's Current Price	Min. Offer	Max. Offer	Total Monthly Cost	Total Annual Cost
IP TRUNK For Cisco T-1 Interface 18 Voice paths plus data	10	4	4	7	2					\$780.00	\$250.00	\$782.30	\$7,823.00	\$7,823.00
IP TRUNK For Ethernet 10 Meg 100 simultaneous calls	8	2	2	4	2					\$780.00	\$125.00	\$3,080.00	\$24,640.00	\$24,640.00
IP TRUNK For Ethernet 10 Meg 200 simultaneous calls	8	2	2	3	1					\$780.00	\$125.00	\$3,080.00	\$24,640.00	\$24,640.00
IP TRUNK For Ethernet 10 Meg 400 simultaneous calls	4	4	1	2	0					\$780.00	\$82.50	\$10,720.00	\$42,880.00	\$42,880.00
IP TRUNK For T-1, PRI within 40 simultaneous calls	21	8	8	8	1					\$780.00	\$28.15	\$1,122.00	\$23,562.00	\$23,562.00
Throttle Cost per minute for LD over 1200 minutes per path* (U.S. \$0.02)	5000									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DD Numbers Block of 4000	1									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Hosted IP Telephone Service meeting min Mandatory's	800	175	200	350	75					\$1,000.00	\$20.83	\$281.00	\$281.00	\$2,328.00
Hosted as above with standard VM per RFP*	800	180	200	300	150					\$7.50	\$128.00	\$98.00	\$78,400.00	\$78,400.00
Hosted as above with integrated messaging per RFP*	400	75	100	200	28					\$7.50	\$82.50	\$98.00	\$39,400.00	\$39,400.00
Cost per minute for LD over 1200 minutes* (U.S. \$0.02)	1000									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Transport ADSL ("Best Effort CoS only")*	175	40	55	80	20	\$0.00	\$0.00	N/A **	N/A **	\$400.00	\$364.56	\$30.00	\$8,760.00	\$8,760.00
Transport DSL ("Best Effort CoS Only")*	80	10	15	20	5	\$0.00	\$0.00	N/A **	N/A **	\$320.00	\$339.36	\$48.00	\$8,000.00	\$8,000.00
T-1 Clear Channel	25	4	6	8	6	\$0.00	\$0.00	\$430.00	\$10,750.00	\$0.00	\$0.00	\$488.00	\$12,128.00	\$12,128.00
T-1 Clear Channel	100	20	25	40	15	\$0.00	\$0.00	\$430.00	\$17,200.00	\$0.00	\$0.00	\$510.00	\$51,000.00	\$51,000.00
FR T-1 768kb burst to full T-1	400	50	100	200	50	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$172,488.00	\$690,996.00
FR T-1 768kb burst to full T-1	800	75	175	275	75	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$431.22	\$345,792.00	\$1,383,168.00
DS-3 FR 56K 280bps min cr	200	15	125	172	15	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$187.82	\$37,564.00	\$151,128.00
DS-3 FR 56K 280bps min cr	30	10	15	15	10	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$187.82	\$5,734.60	\$23,261.60
DS-3 Clear Channel	31	8	10	11	8	\$0.00	\$0.00	\$88.00	\$2,828.00	\$0.00	\$0.00	\$188.80	\$5,952.80	\$23,552.80
DS-3 Clear Channel	8	1	2	2	1	\$0.00	\$0.00	\$88.00	\$7,040.00	\$0.00	\$0.00	\$178.80	\$1,430.40	\$5,952.80
Switched Ethernet 100Meg	8	1	2	2	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$225.00	\$1,574.40	\$12,595.20	\$12,595.20
Switched Ethernet 100Meg	15	2	6	6	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$360.00	\$2,059.20	\$30,888.00	\$30,888.00
Switched Ethernet 100Meg Redundant local loop	4	1	2	2	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,818.40	\$11,273.60	\$11,273.60
Switched Ethernet 100Meg Redundant local loop	15	3	4	8	2	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,818.40	\$42,276.00	\$42,276.00
DS-3 FR 22 Mbps min cr	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$2,898.80	\$5,797.60	\$5,797.60
DS-3 FR 22 Mbps min cr	8	1	3	4	1	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$29,629.68	\$29,629.68
DS-3 Clear Channel	4	1	2	2	1	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$3,703.71	\$14,814.84	\$14,814.84
DS-3 Clear Channel	5	2	2	3	1	\$0.00	\$0.00	\$3,128.80	\$15,644.00	\$0.00	\$0.00	\$4,281.80	\$21,409.60	\$21,409.60
Switched Ethernet 1000Meg	6	2	2	4	2	\$0.00	\$0.00	\$3,128.80	\$18,772.80	\$0.00	\$0.00	\$4,748.20	\$28,489.20	\$28,489.20
Switched Ethernet 1000Meg	14	2	4	8	2	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$360.00	\$4,028.00	\$56,392.00	\$56,392.00
Switched Ethernet 1000Meg Redundant local loop	1	1	2	2	1	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$360.00	\$4,028.00	\$4,028.00	\$4,028.00
Switched Ethernet 1000Meg Redundant local loop	3	1	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$5,025.00	\$15,075.00	\$15,075.00
Switched OC-3	1	0	1	0	0	\$0.00	\$0.00	\$7,480.00	\$29,920.00	\$0.00	\$0.00	\$11,030.00	\$11,030.00	\$11,030.00
Switched OC-3	1	0	0	1	0	\$0.00	\$0.00	\$7,480.00	\$29,920.00	\$0.00	\$0.00	\$11,030.00	\$11,030.00	\$11,030.00
Switched OC-3 Redundant local loop/true Shared ring	2	0	1	1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,279.80	\$24,559.60	\$24,559.60
Switched OC-3 Redundant local loop/true Shared ring	0	0	0	0	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$11,030.00	\$0.00	\$0.00
Switched Ethernet 10Gbit	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$1,800.00	\$36.00	\$18,275.80	\$18,275.80	\$18,275.80

Switched Ethernet 10Gbps	4	1	1	2	0	\$1.00	\$0.00	N/A **	N/A **	\$1,600.00	\$180.00	\$18,368.80	\$77,427.20	\$88,136.40
Switched Ethernet 10Gbps local loop redundant	2	0	1	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$18,288.00	\$36,532.00	\$432,304.00
Switched Ethernet 10Gbps local loop redundant	1	0	0	1	0	\$0.00	\$0.00	N/A **	N/A **	\$0.00	\$0.00	\$21,058.80	\$21,058.80	\$282,691.60

Total Cost per Service	\$1.00	\$1.00	\$1.00	\$1.00	\$0.00	\$16,000.00	\$180.00	\$18,368.80	\$77,427.20	\$18,288.00	\$0.00	\$36,532.00	\$36,532.00	\$432,304.00
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Additional Notes:

*This is for cost comparison purposes only.

** prices: Total Monthly costs

Note: Column I and J - Unit Prices must match the Unit Prices on Chart B1, La. Unit Prices per Account type and Speed and Call may vary from year to year or by location. The State is asserting there are most CoSs available and that B are actually requested in the RFP, but for evaluation purposes we are looking at only "Best Effort" and "Best Time".
 See RFP for requirements of VoIP services and Toll Free Local, In-State and National.

All Rate Plans are to be priced "What-You-Get" Intended for Voice and Video use.

All Block priced circuit access types are to be priced "Best Effort Cost"

Port Access Charge only in the charge the Vendor will charge another 3rd party carrier to plug into the network.

NCR Spread period (in months)

* As described in the RFP, each voice port on IP trunks and Host IP voice service comes with 1,200 nationwide toll-free minutes. These minutes are for the cost per minute above 1,200 minutes per voice port.

** Vendor only offers port access options to 3rd party carriers at native TDM circuits - DS-0, DS-1, DS-3, & OC-3. These circuits include the digital cross connect DCC's port charges along with the PIP port charges. Gold CDR can also be added to these ports.

State of West Virginia
Request for Proposal #

Summary of Worksheets
Bidder:
Verizon Business



	Third Party NRC	NRC Spread	Monthly Port Access	Annual Port Access	WPLS Carrier NRC	NRC Spread	Unit Cost/month and or minute	Total monthly cost	Total Annual Cost
Price Comparison Chart 1	0	\$0.00	\$0.00	\$14,992.50	\$312.34	\$206,857.38	\$229,440.93	\$2,763,291.16	\$0.00
Price Comparison Chart 2	0	\$0.00	\$0.00	\$887,191.20	\$15,242.50	\$2,475.00	\$207,136.38	\$979,066.46	\$11,128,267.12
Price Comparison Chart 3	0	\$0.00	\$0.00	\$0.00	\$15,992.50	\$3,721.88	\$207,981.38	\$1,359,913.61	\$16,054,115.32
Total	\$0.00	\$0.00	\$0.00	\$902,183.70	\$31,547.34	\$213,054.26	\$644,560.70	\$5,092,274.23	\$26,182,402.44

**APPENDIX D - ALTERNATIVE ACCESS OFFERINGS PRICING
(THIS APPENDIX, TOGETHER WITH APPENDICES B AND E, SHOULD BE
SEPARATED FROM THE TECHNICAL PORTION OF VENDOR RESPONSES AND BE
INCLUDED IN VENDOR'S SEALED, COST PORTION OF THEIR RESPONSE TO THIS
RFP.)**

Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Access			
Frame Relay Indirect Access method	3.1.12 & 3.1.17		
DS-0			\$150.00
DS-1			\$380.00
DS-3 4mb			\$2,000.00
DS-3 6mb			\$2,400.00
DS-3 22mb			\$2,850.00
DS-3 45mb			\$3,640.00
Additional PVC			\$4.00
ATM Indirect Access	3.1.12 & 3.1.17		
DS-1			\$525.00
DS-3 with 10 mb CBR			\$3,250.00
DS-3 45 mb			\$3,640.00
OC-3			\$7,000.00
Private Line Pt to Pt Direct Access method	3.1.12 & 3.1.17.5		
DS-0			\$150.00
DS-1 Access to PIP only			\$285.00
DS-1			\$395.00
N x DS-1 (max of 12 Meg support or 8 T1's)			\$285 ea
DS-3 (Direct Access to PIP & Verizon Territory only)			\$2,850.00
Internet Dedicated Access IDA is referenced in the technical section as an access method for VoIP. Pricing for IDA would have to be provided on an ICB bases due to the public nature of this access instead of the Private IP access offered by PIP. IDA can not be postilized but could be utilized on an ICB by a buying entity not needing the connection to PIP. However in most all cases PIP offers the mcse economical connection with the highest SLA.			ICB
Internet SES (Standard VLAN)	3.1.12.1		
10 Meg			\$885.00
100 Meg			\$1,600.00
1 Glg			\$2,650.00
Interoffice Transport per mile (only applies when SES platform is not in local office of service)			\$100.00
EVC's (with Standard Access not to PIP)			
10 Meg		\$200.00	\$50.00
100 Meg		\$200.00	\$100.00
1 Glg		\$200.00	\$200.00

APPENDIX D - ALTERNATIVE ACCESS OFFERINGS PRICING
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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Ethernet SES Access (Premier Access)	3.1.12.1		
<i>Must select EVC with CoS below</i>			
100 Meg		\$1,300.00	\$1,000.00
1 Gg		\$2,800.00	\$2,000.00
EVC's with Basic CoS within SES Platform	3.1.12.1		
1		\$200	\$10.00
2		\$200	\$20.00
3		\$200	\$30.00
4		\$200	\$40.00
5		\$200	\$50.00
6		\$200	\$60.00
7		\$200	\$70.00
8		\$200	\$80.00
9		\$200	\$90.00
10		\$200	\$100.00
20		\$200	\$200.00
30		\$200	\$300.00
40		\$200	\$400.00
50		\$200	\$500.00
60		\$200	\$600.00
70		\$200	\$700.00
80		\$200	\$800.00
90		\$200	\$900.00
100		\$200	\$1,000.00
200		\$200	\$1,200.00
300		\$200	\$1,250.00
400		\$200	\$1,300.00
500		\$200	\$1,350.00
600		\$200	\$1,400.00
700		\$200	\$1,450.00
800		\$200	\$1,500.00
900		\$200	\$1,550.00
1000		\$200	\$1,600.00
Converged Ethernet Access to PIP	3.1.12.3		
<i>Typically each user would only need one CEA access path to PIP to do any to any connectivity to other access types connecting to PIP</i>			
100 Mbps UNI with 6 Mbps EVC into PIP Band A		\$1,800.00	\$1,199.00
100 Mbps UNI with 7 Mbps EVC into PIP Band A		\$1,800.00	\$1,215.50
100 Mbps UNI with 8 Mbps EVC into PIP Band A		\$1,800.00	\$1,232.00
100 Mbps UNI with 9 Mbps EVC into PIP Band A		\$1,800.00	\$1,248.50

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
100 Mbps UNI with 10 Mbps EVC into PIP Band A		\$1,800.00	\$1,265.00
100 Mbps UNI with 20 Mbps EVC into PIP Band A		\$1,800.00	\$1,430.00
100 Mbps UNI with 30 Mbps EVC into PIP Band A		\$1,800.00	\$1,595.00
100 Mbps UNI with 40 Mbps EVC into PIP Band A		\$1,800.00	\$1,760.00
100 Mbps UNI with 50 Mbps EVC into PIP Band A		\$1,800.00	\$1,925.00
1000 Mbps UNI with 90 Mbps EVC into PIP Band A		\$1,800.00	\$3,685.00
1000 Mbps UNI with 100 Mbps EVC into PIP Band A		\$1,800.00	\$3,850.00
1000 Mbps UNI with 200 Mbps EVC into PIP Band A		\$1,800.00	\$4,015.00
1000 Mbps UNI with 300 Mbps EVC into PIP Band A		\$1,800.00	\$4,180.00
100 Mbps UNI with 6 Mbps EVC into PIP Band B		\$1,800.00	\$1,604.00
100 Mbps UNI with 7 Mbps EVC into PIP Band B		\$1,800.00	\$1,636.00
100 Mbps UNI with 8 Mbps EVC into PIP Band B		\$1,800.00	\$1,668.00
100 Mbps UNI with 9 Mbps EVC into PIP Band B		\$1,800.00	\$1,699.00
100 Mbps UNI with 10 Mbps EVC into PIP Band B		\$1,800.00	\$1,730.00
100 Mbps UNI with 20 Mbps EVC into PIP Band B		\$1,800.00	\$2,046.00
100 Mbps UNI with 30 Mbps EVC into PIP Band B		\$1,800.00	\$2,225.00
100 Mbps UNI with 40 Mbps EVC into PIP Band B		\$1,800.00	\$2,390.00
100 Mbps UNI with 50 Mbps EVC into PIP Band B		\$1,800.00	\$2,555.00
1000 Mbps UNI with 90 Mbps EVC into PIP Band B		\$1,800.00	\$4,315.00
1000 Mbps UNI with 100 Mbps EVC into PIP Band B		\$1,800.00	\$4,480.00
1000 Mbps UNI with 200 Mbps EVC into PIP Band B		\$1,800.00	\$4,645.00
1000 Mbps UNI with 300 Mbps EVC into PIP Band B		\$1,800.00	\$4,810.00
100 Mbps UNI with 6 Mbps EVC into PIP Band C		\$1,800.00	\$2,096.00
100 Mbps UNI with 7 Mbps EVC into PIP Band C		\$1,800.00	\$2,128.00
100 Mbps UNI with 8 Mbps EVC into PIP Band C		\$1,800.00	\$2,157.00
100 Mbps UNI with 9 Mbps EVC into PIP Band C		\$1,800.00	\$2,188.00
100 Mbps UNI with 10 Mbps EVC into PIP Band C		\$1,800.00	\$2,222.00
100 Mbps UNI with 20 Mbps EVC into PIP Band C		\$1,800.00	\$2,538.00
100 Mbps UNI with 30 Mbps EVC into PIP Band C		\$1,800.00	\$2,836.00
100 Mbps UNI with 40 Mbps EVC into PIP Band C		\$1,800.00	\$3,020.00
100 Mbps UNI with 50 Mbps EVC into PIP Band C		\$1,800.00	\$3,185.00
1000 Mbps UNI with 90 Mbps EVC into PIP Band C		\$1,800.00	\$4,945.00
1000 Mbps UNI with 100 Mbps EVC into PIP Band C		\$1,800.00	\$5,110.00
1000 Mbps UNI with 200 Mbps EVC into PIP Band C		\$1,800.00	\$5,275.00
1000 Mbps UNI with 300 Mbps EVC into PIP Band C		\$1,800.00	\$5,440.00
100 Mbps UNI with 6 Mbps EVC into PIP Band D		\$1,800.00	\$2,916.00
100 Mbps UNI with 7 Mbps EVC into PIP Band D		\$1,800.00	\$2,948.00
100 Mbps UNI with 8 Mbps EVC into PIP Band D		\$1,800.00	\$2,977.00
100 Mbps UNI with 9 Mbps EVC into PIP Band D		\$1,800.00	\$3,008.00
100 Mbps UNI with 10 Mbps EVC into PIP Band D		\$1,800.00	\$3,042.00
100 Mbps UNI with 20 Mbps EVC into PIP Band D		\$1,800.00	\$3,358.00
100 Mbps UNI with 30 Mbps EVC into PIP Band D		\$1,800.00	\$3,656.00
100 Mbps UNI with 40 Mbps EVC into PIP Band D		\$1,800.00	\$3,860.00

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
100 Mbps UNI with 50 Mbps EVC into PIP Band D		\$1,800.00	\$4,025.00
1000 Mbps UNI with 90 Mbps EVC into PIP Band D		\$1,800.00	\$5,785.00
1000 Mbps UNI with 100 Mbps EVC into PIP Band D		\$1,800.00	\$5,950.00
1000 Mbps UNI with 200 Mbps EVC into PIP Band D		\$1,800.00	\$6,115.00
1000 Mbps UNI with 300 Mbps EVC into PIP Band D		\$1,800.00	\$6,280.00
<i>Band A = 0 Mi IOF from CO</i>			
<i>Band B = 1-3 Mi IOF from CO</i>			
<i>Band C = 4-6 Mi IOF from CO</i>			
<i>Band D = 7-10 Mi IOF from CO</i>			
<i>Band A CO examples : Charleston, Huntington</i>			
<i>Beckley, Pt Pleasant, Clarksburg</i>			
<i>Ethernet Services Available in Verizon Territory Only</i>			
<i>All Fiber based services greater than a DS-3 and Ethernet will be provided where available. Verizon will work with the State in all situations where these facilities are not available to provide adequate connectivity and deploy using a success based model to provide the State of WV services they require. Above access is in SES platform with Covered Ethernet Access Connectivity used to connect to PIP.</i>			
PRIVATE IP NETWORK PORTS			
PIP Indirect Port Access	3.1.12.3		
DS-3 (CPA between Frame Relay & PIP Core)			\$1,414.30
<i>Would require the proper PIP Shared Port from below.</i>			
PIP Shared Port Standard Service	3.1.6.1 3.1.7.1 & 3.1.7.4		
64 Kbps			\$16.80
72 Kbps			\$17.22
80 Kbps			\$19.11
104 Kbps			\$24.99
112 Kbps			\$26.88
128 Kbps			\$30.66
160 Kbps			\$38.43
192 Kbps			\$46.20
208 Kbps			\$50.19
224 Kbps			\$53.97
256 Kbps			\$61.74

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
312 Kbbs			\$74.97
320 Kbps			\$76.86
336 Kb			\$80.43
376 kb			\$90.09
384 kb			\$91.98
400 kb			\$95.55
448 kb			\$107.10
484 kb			\$116.13
504 kb			\$126.00
512 kb			\$128.10
520 kb			\$130.20
528 kb			\$132.09
544 kb			\$136.08
576 kb			\$137.76
608 kb			\$145.74
624 kb			\$149.52
640 kb			\$153.30
688 kb			\$164.64
704 kb			\$168.42
712 kb			\$170.10
752 kb			\$171.57
760 kb			\$172.83
768 kb			\$173.88
800 kb			\$181.23
820 kb			\$185.85
832 kb			\$188.58
896 kb			\$202.86
904 kb			\$204.96
912 kb			\$206.64
928 kb			\$210.21
960 kb			\$217.56
1.004 mb			\$217.77
1.008 mb			\$218.61
1.024 mb			\$222.18
1.088 mb			\$226.38
1.152 mb			\$232.26
1.200 mb			\$233.31
1.216 mb			\$234.15
1.232 mb			\$234.78
1.280 mb			\$235.20
1.376 mb			\$235.83
1.408 mb			\$236.46
1.512 mb			\$237.09

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
1.528 mb			\$238.14
1.536 mb			\$239.40
1.728 mb			\$239.82
1.792 mb			\$240.24
1.808 mb			\$240.66
1.840 mb			\$241.08
1.984 mb			\$241.50
1.992 mb			\$241.92
2 mb			\$242.34
2.004 mb			\$242.76
2.040 mb			\$243.18
2.048 mb			\$266.70
2.064 mb			\$267.12
2.124 mb			\$267.54
2.420 mb			\$267.96
2.688 mb			\$268.38
2.716 mb			\$268.80
2.752 mb			\$269.22
3.008 mb			\$269.64
3.012 mb			\$270.06
3.064 mb			\$271.95
3.072 mb			\$272.58
3.324 mb			\$295.05
3.5 mb			\$310.59
3.504 mb			\$311.01
3.520 mb			\$312.48
3.6 mb			\$319.20
3.620 mb			\$321.09
3.680 mb			\$326.34
3.776 mb			\$334.95
4 mb			\$354.69
4.100 mb			\$363.51
4.128 mb			\$366.03
4.144 mb			\$367.50
4.480 mb			\$397.32
4.496 mb			\$398.79
4.608 mb			\$408.66
5.008 mb			\$450.45
5.392 mb			\$485.10
5.520 mb			\$496.65
6 mb			\$539.70
6.144 mb			\$552.72
6.288 mb			\$565.74

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
6.912 mb			\$621.81
7.20 mb			\$647.64
7.280 mb			\$654.99
7.500 mb			\$674.73
7.680 mb			\$690.90
8 mb			\$719.67
8.096 mb			\$728.28
8.288 mb			\$745.50
8.896 mb			\$800.31
8.992 mb			\$808.92
9.008 mb			\$810.39
9.216 mb			\$829.08
9.664 mb			\$869.40
10 mb			\$899.64
10.752 mb			\$967.26
10.8 mb			\$971.67
11.056 mb			\$994.56
12.288 mb			\$1,105.44
12.896 mb			\$1,160.04
13.486 mb			\$1,213.36
14.736 mb			\$1,325.73
15.360 mb			\$1,381.80
15.552 mb			\$1,399.02
15.664 mb			\$1,400.07
16.192 mb			\$1,456.56
17.808 mb			\$1,602.09
18 mb			\$1,619.31
18.432 mb			\$1,656.16
18.976 mb			\$1,707.09
20 mb			\$1,799.28
21.504 mb			\$1,934.52
21.680 mb			\$1,950.27
22.496 mb			\$2,023.77
22.576 mb			\$2,030.91
24.384 mb			\$2,193.66
24.576 mb			\$2,210.88
26.992 mb			\$2,428.23
27.088 mb			\$2,436.84
27.536 mb			\$2,477.16
27.648 mb			\$2,487.24
29.776 mb			\$2,576.49
30 mb			\$2,595.81
30.720 mb			\$2,658.18

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
30.928 mb			\$2,676.24
31.488 mb			\$2,724.75
31.552 mb			\$2,730.21
31.680 mb			\$2,741.34
32.480 mb			\$2,810.43
33.792 mb			\$2,924.04
34.368 mb			\$2,974.02
36 mb			\$3,115.14
36.8 mb			\$3,184.44
36.864 mb			\$3,189.90
37.072 mb			\$3,207.96
39.552 mb			\$3,422.58
39.769 mb			\$3,441.27
39.936 mb			\$3,455.76
40 mb			\$3,459.96
40.256 mb			\$3,464.16
41.444 mb			\$3,468.36
43.008 mb			\$3,544.38
43.2 mb			\$3,560.13
44.992 mb			\$3,707.97
PIP Dedicated Standard Port	3.1.6.1 3.1.7.1 & 3.1.7.4		
64 Kbps			\$39.00
128 Kbps			\$68.80
256 Kbps			\$110.80
384 Kbps			\$143.00
512 Kbps			\$175.40
768 Kbps			\$219.60
Ethernet 1 Mbps			\$270.40
1.024 Mbps			\$270.40
1.536 Mbps			\$200.00
Ethernet 2 Mbps			\$500.00
Ethernet 3 Mbps			\$551.80
3.072 Mbps			\$551.80
Ethernet 4 Mbps			\$635.40
4.608 Mbps			\$677.20
Ethernet 5 Mbps			\$700.00
Ethernet 6 Mbps			\$735.40
6.144 Mbps			\$735.40
Ethernet 7 Mbps			\$770.40
7.680 Mbps			\$805.20

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Ethernet 8 Mbps			\$835.60
8 Mbps			\$835.60
Ethernet 9 Mbps			\$866.00
9 Mbps			\$866.00
9.216 Mbps			\$896.40
Ethernet 10 Mbps			\$952.60
10.752 Mbps			\$978.40
12 Mbps			\$1,060.20
Ethernet 15 Mbps			\$1,104.40
18 Mbps			\$1,120.00
20 Mbps			\$1,148.60
Ethernet 20 Mbps			\$1,184.80
21 Mbps			\$1,200.00
24 Mbps			\$1,210.00
Ethernet 25 Mbps			\$1,220.80
25 Mbps			\$1,230.00
27 Mbps			\$1,240.00
Ethernet 30 Mbps			\$1,257.00
30 Mbps			\$1,257.00
33 Mbps			\$1,290.00
Ethernet 35 Mbps			\$1,329.40
35 Mbps			\$1,329.40
36 Mbps			\$1,360.00
Ethernet 40 Mbps			\$1,390.00
40 Mbps			\$1,390.00
41 Mbps			\$1,400.00
44.184/44.736 Mbps			\$1,401.60
Ethernet 50 Mbps			\$2,100.00
Ethernet 60 Mbps			\$2,460.00
Ethernet 70 Mbps			\$2,800.00
Ethernet 80 Mbps			\$3,120.00
Ethernet 90 Mbps			\$3,420.00
Ethernet 100 Mbps			\$3,700.00
155/155.52 Mbps			\$4,030.00
Ethernet 200 Mbps			\$11,427.60
Ethernet 300 Mbps			\$12,386.00
Ethernet 400 Mbps			\$13,492.00
Ethernet 500 Mbps			\$14,583.00
Ethernet 600 Mbps			\$17,062.20
622.08 Mbps			\$12,440.00
Ethernet 700 Mbps			\$18,415.20
Ethernet 800 Mbps			\$19,389.20
Ethernet 900 Mbps			\$20,363.00

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Ethernet 1000 Mbps			\$22,926.60
Gold Car Port Charge	3.1.6.1 3.1.7.1 & 3.1.7.4		
<i>Adds onto Standard Port (Does not have to be same size)</i>			
0 Kbps			\$0.00
8 Kbps			\$10.00
16 Kbps			\$10.00
32 Kbps			\$10.00
48 Kbps			\$10.00
64 Kbps			\$10.00
72 Kbps			\$10.00
80 Kbps			\$10.00
104 Kbps			\$10.00
112 Kbps			\$10.00
128 Kbps			\$22.50
160 Kbps			\$22.50
192 Kbps			\$22.50
208 Kbps			\$22.50
224 Kbps			\$22.50
256 Kbps			\$22.50
312 Kbps			\$22.50
320 Kbps			\$22.50
336 Kbps			\$22.50
376 Kbps			\$22.50
384 Kbps			\$22.50
400 Kbps			\$22.50
448 Kbps			\$22.50
464 Kbps			\$22.50
504 Kbps			\$22.50
512 Kbps			\$22.50
520 Kbps			\$22.50
528 Kbps			\$22.50
544 Kbps			\$22.50
576 Kbps			\$22.50
608 Kbps			\$22.50
624 Kbps			\$22.50
640 Kbps			\$22.50
688 Kbps			\$22.50
704 Kbps			\$22.50
712 Kbps			\$22.50

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
752 Kbps			\$22.50
760 Kbps			\$22.50
768 Kbps			\$22.50
800 Kbps			\$25.00
820 Kbps			\$25.00
832 Kbps			\$25.00
896 Kbps			\$25.00
904 Kbps			\$25.00
912 Kbps			\$25.00
928 Kbps			\$25.00
960 Kbps			\$25.00
1.004 Mbps			\$25.00
1.008 Mbps			\$25.00
1.024 Mbps			\$25.00
1.068 Mbps			\$25.00
1.152 Mbps			\$25.00
1.200 Mbps			\$25.00
1.216 Mbps			\$25.00
1.232 Mbps			\$25.00
1.280 Mbps			\$25.00
1.376 Mbps			\$25.00
1.408 Mbps			\$25.00
1.512 Mbps			\$25.00
1.528 Mbps			\$25.00
1.536 Mbps			\$25.00
1.728 Mbps			\$112.60
1.792 Mbps			\$113.80
1.808 Mbps			\$114.60
1.840 Mbps			\$115.60
1.984 Mbps			\$116.60
1.992 Mbps			\$117.60
2.000 Mbps			\$118.60
2.004 Mbps			\$119.60
2.040 Mbps			\$120.60
2.048 Mbps			\$142.20
2.064 Mbps			\$148.20
2.124 Mbps			\$154.20
2.420 Mbps			\$160.20
2.688 Mbps			\$166.20
2.716 Mbps			\$172.20
2.752 Mbps			\$178.20
3.000 Mbps			\$183.80
3.008 Mbps			\$184.20

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
3.012 Mbps			\$190.20
3.064 Mbps			\$196.20
3.072 Mbps			\$203.80
3.324 Mbps			\$209.80
3.500 Mbps			\$215.80
3.504 Mbps			\$221.80
3.520 Mbps			\$227.80
3.600 Mbps			\$233.80
3.620 Mbps			\$239.80
3.680 Mbps			\$245.80
3.776 Mbps			\$251.80
4.000 Mbps			\$257.80
4.096 Mbps			\$263.60
4.100 Mbps			\$263.80
4.128 Mbps			\$269.80
4.144 Mbps			\$275.80
4.480 Mbps			\$281.80
4.496 Mbps			\$287.80
4.608 Mbps			\$292.80
5.008 Mbps			\$312.80
5.392 Mbps			\$332.80
5.520 Mbps			\$352.80
6.000 Mbps			\$372.80
6.144 Mbps			\$375.80
6.288 Mbps			\$390.80
6.912 Mbps			\$405.80
7.200 Mbps			\$420.80
7.280 Mbps			\$435.80
7.500 Mbps			\$450.80
7.680 Mbps			\$452.60
8.000 Mbps			\$463.60
8.096 Mbps			\$474.60
8.288 Mbps			\$485.60
8.896 Mbps			\$496.60
8.992 Mbps			\$507.60
9.000 Mbps			\$518.20
9.008 Mbps			\$518.60
9.216 Mbps			\$523.20
9.654 Mbps			\$543.20
10.000 Mbps			\$563.20
10.752 Mbps			\$587.80
10.800 Mbps			\$607.80
11.056 Mbps			\$627.80

**APPENDIX D - ALTERNATIVE ACCESS OFFERINGS PRICING
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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
12.000 Mbps			\$630.80
12.288 Mbps			\$646.00
12.896 Mbps			\$680.00
13.488 Mbps			\$714.00
14.736 Mbps			\$748.00
15.000 Mbps			\$761.40
15.360 Mbps			\$775.00
15.552 Mbps			\$785.00
15.564 Mbps			\$815.00
16.192 Mbps			\$835.00
17.808 Mbps			\$855.00
18.000 Mbps			\$875.00
18.432 Mbps			\$891.80
18.976 Mbps			\$911.80
20.000 Mbps			\$931.80
21.000 Mbps			\$978.40
21.504 Mbps			\$996.20
21.680 Mbps			\$1,016.20
22.496 Mbps			\$1,036.20
22.576 Mbps			\$1,058.20
23.552 Mbps			\$1,057.80
24.000 Mbps			\$1,059.20
24.384 Mbps			\$1,076.20
24.576 Mbps			\$1,088.40
25.000 Mbps			\$1,107.20
26.992 Mbps			\$1,108.40
27.000 Mbps			\$1,124.80
27.088 Mbps			\$1,126.40
27.536 Mbps			\$1,148.40
27.648 Mbps			\$1,168.40
29.776 Mbps			\$1,188.40
30.000 Mbps			\$1,208.40
30.720 Mbps			\$1,235.80
30.928 Mbps			\$1,245.80
31.488 Mbps			\$1,255.80
31.552 Mbps			\$1,265.80
31.680 Mbps			\$1,275.80
32.480 Mbps			\$1,285.80
33.000 Mbps			\$1,288.60
33.792 Mbps			\$1,291.20
34.368 Mbps			\$1,301.20
35.000 Mbps			\$1,306.20
36.000 Mbps			\$1,311.20

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
36.800 Mbps			\$1321.20
36.864 Mbps			\$1,334.20
37.072 Mbps			\$1,344.20
39.552 Mbps			\$1,354.20
39.768 Mbps			\$1,364.20
39.936 Mbps			\$1,365.00
40.000 Mbps			\$1,371.00
40.256 Mbps			\$1,377.00
41.000 Mbps			\$1,380.00
41.440 Mbps			\$1,383.00
43.008 Mbps			\$1,383.40
43.200 Mbps			\$1,389.40
44.184 Mbps			\$1,392.40
44.892 Mbps			\$1,395.40
Disaster Recovery Port for PIP.			
	3.1.11.5		
	3.1.19.1		
1.536 Mbps			\$166.80
44.184/44.736Mbps			\$700.80
Geographic or Router Diversity feature			
Customer Provided Access Charge			
<i>Port charge same as quoted rate for State</i>			
DS0/DDS			\$60.00
DS1			\$230.00
DS3			\$1,725.00
OC3			\$3,450.00
Private IP Enhanced Reporting			
	3.2.9.5		
Standard Select Reporting			N/C
Enhanced Traffic Management Reporting (Gold CAR)			N/C
Dynamic Bandwidth DCAR			
			\$10.00
Cancellation charge prior to install (per port)		\$650.00	
Order expedite (per port)		\$1,300.00	
Private IP Multicasting			
	3.1.13.4		
Private IP Multicasting - Receiver Site, 8k CAR			\$ 0/mo
Private IP Multicasting - Sender Site, Small Tier			\$ 160/mo
Private IP Multicasting - Sender Site, Medium Tier			\$ 640/mo
Private IP Multicasting - Sender Site, Large Tier			\$ 1,290/mo
Private IP Multicasting - Sender Site, Extra Large Tier			\$ 2,570/mo

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
VOIP			
Hosted IP Centrex	3.1.14 & 3.1.15		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00
*Service must terminate into a Verizon Business VoIP certified Router/Gateway with a PIX firewall. Current Certified Models are listed below.			
Integrated Access	3.1.14 & 3.1.15.20		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00
*Service must terminate into a Verizon Business VoIP certified Router/Gateway with a PIX firewall. Current Certified Models are listed below.			

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
IP Trunking	3.1.14 & 3.1.15.21		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00
*Service must terminate into a Verizon Business VoIP certified Router/Gateway with a PIX firewall. Current Certified Models are listed below.			
VoIP CPE Pricing			
Cisco 3745 DS3		\$13,120.00	
Cisco 2811 (1-PRI)		\$5,690.00	
Adtran 908 E 1-T1, 8FXS, 1PRI		\$1,858.00	
Adtran 924 IDA		\$2,504.00	
Cisco Pix 501(1-25)		\$637.00	
Cisco Pix 506 (26-50)		\$693.00	
Cisco Pix 515 (51+)		\$2,874.00	
Cisco 3550 (24 port POE)		\$2,237.00	
Mediatrix 1104		\$328.00	
Mediatrix 1124		\$1,772.00	
Polycom IP601		\$266.00	
Polycom Expansion Module		\$199.00	
Polycom IP600		\$266.00	
Polycom IP501		\$180.00	
Polycom IP301		\$120.00	
Cisco 7960G		\$372.00	
Cisco 7940G		\$312.00	
Cisco 7912G		\$228.00	

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Satellite Access			
Satellite Enterprise	3.1.16.5		
Primary 128 x 128 Kbps		\$3,661	\$404.00
Primary 256 x 128 Kbps		\$3,661	\$432.00
Primary 384 x 128 Kbps		\$3,661	\$565.00
Primary 512 x 128 Kbps		\$3,661	\$1,040.00
Primary 768 x 256 Kbps			
Primary 1024 x 128 Kbps		\$3,661	\$1,420.00
Primary 1544 x 256 Kbps		\$3,661	\$1,895.00
Primary 1544 x 512 Kbps		\$3,661	\$2,845.00
Primary 2048 x 256 Kbps		\$3,661	\$2,180.00
Primary 2048 x 512 Kbps		\$3,661	\$3,035.00
Back-Up 1544 x 256 Kbps*		\$3,661	\$328.00
Back-Up 1544 x 512 Kbps*		\$3,661	\$423.00
Back-Up 2048 x 256 Kbps*		\$3,661	\$356.00
Back-Up 2048 x 512 Kbps*		\$3,661	\$451.00
*Addition MB of fraction thereof greater than 100 MB			\$1.70
Site Survey		\$300.00	
Star Secure Traffic Accelerator, Remote		\$2,223.00	
Star Secure Traffic Accelerator, Central		\$6,538.00	
Upgrade of Service Tier		\$65.00	
Site Re-termination 1.2 Meter Antenna		\$1,415.00	
Site De-installation 1.2 Antenna		\$450.00	
Failed Dispatch 1.2 Antenna		\$425.00	
Maintenance Next Business Day (Included in MRC's)			\$0.00
Maintenance 5x8 Same Day Coverage			\$110.00
Maintenance 7x24 Same Day Coverage			\$140.00
Satellite to Private IP			
Data Bandwidth Pricing (Uplink/Downlink)			
Satellite Portion Only (Single PIP Port can be utilized in a Hub and Spoke Design)			
PIPS Transmit / Receive Total Bandwidth (Kbps)	3.1.12.3 & 3.1.17.7		
128 Kbps / 128 Kbps 256 Kbps (Primary)			\$127
128 Kbps / 128 Kbps 256 Kbps (Primary)			\$175
128 Kbps / 384 Kbps 512 Kbps (Primary)			\$224
128 Kbps / 512 Kbps 640 Kbps (Primary)			\$272
128 Kbps / 768 Kbps 768 Kbps (Primary)			\$368

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
256 Kbps / 256 Kbps 512 Kbps (Primary)			\$224
256 Kbps / 384 Kbps 640 Kbps (Primary)			\$272
256 Kbps / 512 Kbps 768 Kbps (Primary)			\$320
256 Kbps / 768 Kbps 1024 Kbps (Primary)			\$416
256 Kbps / 1024 Kbps 1280 Kbps (Primary)			\$513
256 Kbps / 1544 Kbps 1800 Kbps (Primary)			\$708
384 Kbps / 384 Kbps 768 Kbps (Primary)			\$320
384 Kbps / 512 Kbps 896 Kbps (Primary)			\$368
384 Kbps / 768 Kbps 1152 Kbps (Primary)			\$464
384 Kbps / 1024 Kbps 1408 Kbps (Primary)			\$561
384 Kbps / 1544 Kbps 1928 Kbps (Primary)			\$757
512 Kbps / 512 Kbps 1024 Kbps (Primary)			\$416
512 Kbps / 768 Kbps 1280 Kbps (Primary)			\$513
512 Kbps / 1024 Kbps 1536 Kbps (Primary)			\$609
512 Kbps / 1544 Kbps 2056 Kbps (Primary)			\$805
768 Kbps / 768 Kbps 1536 Kbps (Primary)			\$609
768 Kbps / 1024 Kbps 1792 Kbps (Primary)			\$705
768 Kbps / 1544 Kbps 2312 Kbps (Primary)			\$901
1024 Kbps / 1024 Kbps 2048 Kbps (Primary)			\$802
1024 Kbps / 1544 Kbps 2568 Kbps (Primary)			\$997
1024 Kbps / 2048 Kbps 3072 Kbps (Primary)			\$1,187
1544 Kbps / 1544 Kbps 3088 Kbps (Primary)			\$1,193
1544 Kbps / 2048 Kbps 3592 Kbps (Primary)			\$1,393
2048 Kbps / 2048 Kbps 4096 Kbps (Primary)			\$1,573
128 Kbps / 128 Kbps 256 Kbps DR (Backup)			\$52
128 Kbps / 128 Kbps 256 Kbps DR (Backup)			\$58
128 Kbps / 384 Kbps 512 Kbps DR (Backup)			\$64
128 Kbps / 512 Kbps 640 Kbps DR (Backup)			\$70
128 Kbps / 768 Kbps 768 Kbps DR (Backup)			\$82
256 Kbps / 256 Kbps 512 Kbps DR (Backup)			\$64
256 Kbps / 384 Kbps 640 Kbps DR (Backup)			\$70
256 Kbps / 512 Kbps 768 Kbps DR (Backup)			\$76
256 Kbps / 768 Kbps 1024 Kbps DR (Backup)			\$88
256 Kbps / 1024 Kbps 1280 Kbps DR (Backup)			\$100
256 Kbps / 1544 Kbps 1800 Kbps DR (Backup)			\$124
384 Kbps / 384 Kbps 768 Kbps DR (Backup)			\$76
384 Kbps / 512 Kbps 896 Kbps DR (Backup)			\$82
384 Kbps / 768 Kbps 1152 Kbps DR (Backup)			\$94
384 Kbps / 1024 Kbps 1408 Kbps DR (Backup)			\$106
384 Kbps / 1544 Kbps 1928 Kbps DR (Backup)			\$130
512 Kbps / 512 Kbps 1024 Kbps DR (Backup)			\$88
512 Kbps / 768 Kbps 1280 Kbps DR (Backup)			\$100
512 Kbps / 1024 Kbps 1536 Kbps DR (Backup)			\$112

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
512 Kbps / 1544 Kbps 2056 Kbps DR (Backup)			\$136
768 Kbps / 768 Kbps 1536 Kbps DR (Backup)			\$112
768 Kbps / 1024 Kbps 1792 Kbps DR (Backup)			\$123
768 Kbps / 1544 Kbps 2312 Kbps DR (Backup)			\$148
1024 Kbps / 1024 Kbps 2048 Kbps DR (Backup)			\$135
1024 Kbps / 1544 Kbps 2568 Kbps DR (Backup)			\$160
1024 Kbps / 2048 Kbps 3072 Kbps DR (Backup)			\$183
1544 Kbps / 1544 Kbps 3088 Kbps DR (Backup)			\$184
1544 Kbps / 2048 Kbps 3592 Kbps DR (Backup)			\$207
2048 Kbps / 2048 Kbps 4096 Kbps DR (Backup)			\$230
<i>Satellite to PIP will need a PIP Port Port can be set up in a Hub and Spoke type network configuration.</i>			
Back-Up Assumptions			
Pricing is based on backing up 10 percent of the customer's sites.			
Example - Customer has 100 sites and wants 256 x 256 Kbps service.			
The back-up service provides enough bandwidth for up to 10 sites (10 percent of total). If more than 10 percent of the sites are down at any one time, each site will share the total bandwidth available.			
Example - If 20 sites (20 percent of total) lose primary service at any one time, those sites would still have the equivalent of 128 x 128 kbps by sharing in the 10 percent available back-up.			
Site Survey		\$340.00	
Service Upgrade or Downgrade (existing Antenna)		\$65.00	
Antenna Options (reference chart below for selection)	3.1.12.3 & 3.1.17.7		
Standard - .98 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit - (Transmit 512 Kbps or less)		\$3,110	
Standard - .98 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit w/Delice - (Transmit 512 Kbps or less)		\$3,880	
Standard - .98 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit - (Transmit 1,024 Kbps or less)		\$4,780	
Standard - .98 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit w/Delice - (Transmit 1,024 Kbps or less)		\$5,550	
Standard - 1.2 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit - (Transmit 512 Kbps or less)		\$3,150	
Standard - 1.2 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit w/Delice - (Transmit 512 Kbps or less)		\$4,040	
Standard - 1.2 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit - (Transmit 1,024 Kbps or less)		\$4,820	
Standard - 1.2 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit w/Delice - (Transmit 1,024 Kbps or less)		\$5,700	

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Standard - 1.8 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit - (Transmit 1,024 Kbps or less)		\$4,120	
Standard - 1.8 Meter Antenna, 3-Watt (Typ.) BUC and Indoor Unit w/Deice - (Transmit 1,024 Kbps or less)		\$5,460	
Standard - 1.8 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit - (Transmit 2,048 Kbps or less)		\$5,780	
Standard - 1.8 Meter Antenna, 4-Watt (Min.) BUC and Indoor Unit w/Deice - (Transmit 2,048 Kbps or less)		\$7,130	
Quick-Deploy - 1.2 Meter Antenna, 4-Watt (Min.) BUC and iDirect 5150 - (Transmit 1,024 Kbps or less)		\$23,900	
Quick-Deploy - 1.2 Meter Antenna, 8-Watt (Min.) BUC and iDirect 7350 - (Transmit 2,048 Kbps or less)		\$32,290	
Quick-Deploy - 1.8 Meter Antenna, 4-Watt (Min.) BUC and iDirect 5150 - (Transmit 2,048 Kbps or less)		\$43,650	
Quick-Deploy - 1.8 Meter Antenna, 8-Watt (Min.) BUC and iDirect 7350 - (Transmit 4,096 Kbps or less)		\$52,040	
Antenna	2/3-Watt BUC	4-Watt BUC	
.95 Meter Auto-Deploy	TX: 256 kbps	TX: 512 kbps	
1.2 Meter Auto-Deploy	TX: 512 kbps	TX: 1024 kbps	
1.2 Meter	TX: 512 kbps	TX: 1024 kbps	
1.8 Meter	TX: 1024 kbps	TX: 2048 kbps	
2.4 Meter	TX: 2048 kbps	TX: 2048 kbps	
Instructions:			
The grid above shows the maximum transmit speed for a selected Private IP Satellite proposal.			
For example:			
If your customer needs to transmit 1024 Kbps, you could use one of the following packages:			
- 1.2 Meter with a 4-watt BUC			
- 1.8 Meter with a 2/3-watt BUC			
Or anything larger than the above.			

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
If your customer only needs to transmit 64-256 Kbps, they can choose:			
Any of the options in the grid.			
Network Management PIP Satellite	3.1.12.3 & 3.1.17.7		
Tier 1 Reactive Service			\$0.00
Tier 2 Proactive Transport Monitoring			\$13.00
Tier 3 Managed Service			\$57.00
CPE Maintenance PIP Satellite	3.1.12.3 & 3.1.17.7		
Next Business Day			\$33.00
Same Business Day (5X8)			\$53.00
Same Business Day (24X&7)			\$95.00
Quick Deploy Maintenance			\$130.00
Site Retermination	3.1.12.3 & 3.1.17.7		
.98 Meter and 1.2 Meter Private IP Satellite		\$1,200	
.98 Meter and 1.2 Meter Private IP Satellite w/Delce		\$1,350	
1.8 Meter Private IP Satellite Retermination		\$1,720	
1.8 Meter Private IP Satellite Retermination w/Delce		\$1,870	
Site Deinstallation	3.1.12.3 & 3.1.17.7		
.98 Meter and 1.2 Satellite Deinstallation		\$380	
1.8 Meter Private IP Satellite Deinstallation		\$600	
Ncn Standard Install		ICB	
Pole Mount/Ridge Mount			

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Secure Gateway Universal Port	3.1.16		
768 Kbps		\$100.00	\$707.00
1.024 Mbps		\$100.00	\$833.00
1.536 Mbps		\$200.00	\$997.50
2.048 Mbps		\$600.00	\$1,330.00
3.072 Mbps		\$600.00	\$1,995.00
4.608 Mbps		\$600.00	\$2,996.00
6.144 Mbps		\$600.00	\$3,997.00
7.680 Mbps		\$600.00	\$4,998.00
9.216 Mbps		\$600.00	\$5,999.00
10.752 Mbps		\$600.00	\$7,000.00
12.288 Mbps		\$600.00	\$8,001.00
15.360 Mbps		\$600.00	\$10,003.00
18.432 Mbps		\$600.00	\$12,005.00
25.600 Mbps		\$600.00	\$16,674.00
43.008 Mbps		\$600.00	\$28,014.00
Dial Access (Remote/Roaming User Access)	3.1.16.5		
10 - Hour Net Rate			\$5.57
50 - Hour Net Rate			\$11.87
150 - Hour Net Rate			\$13.97
Hourly Overage			\$1.05
Toll Free US Access (adds on to Hourly Rate Charge)			\$3.50/hr
Dial Access Solo (Support of BRI's or Individual Users)	3.1.16.5		
10 - Hour Net Rate			\$5.95
50 - Hour Net Rate			\$9.95
150 - Hour Net Rate			\$19.95
Unlimited (per Individual User)			\$24.95
Hourly Overage			\$1.50
Enterprise Service Management	3.1.16.2		
Network Access Identifier (NAI):		\$1,000	
Customer will be provided use of one domain name (e.g., username@domain) and up to two subdomain names (e.g., username@subdomain.domain) at no charge.			
Account Maintenance Charge			\$200

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
DSL - Office SDSL (includes 2 wire Conditioned Loop)	3.1.16.5		
DSL - Office 128k		\$0	\$120
DSL - Office 192k		\$0	\$140
DSL - Office 384k		\$0	\$160
DSL - Office 768k		\$0	\$200
DSL - Office 1M		\$0	\$240
DSL - Office 1.5M		\$0	\$320
New Edge IDSL Router 5890		\$320	
New Edge SDSL Router 5890		\$320	
Covad IDSL Router		\$320	
Covad SDSL Router		\$320	
Covad IDSL/SDSL Router		\$320	
<p>Due to the relatively proprietary nature of DSL technology (unlike more mature ISDN, T1, or T3 circuits, for example), DSL CPE must match exactly to the type of line (firmware and configuration). Because of the need to match CPE configuration exactly, the on-site installer needs the ability to reconfigure the device as necessary. This is possible only if Verizon Business has deployed/owns the box configuration. Verizon does not have the ability to reconfigure a customer-owned device.</p>			
DSL - Solo ADSL (Customer provided POTS line)	3.1.16.5		
DSL - Solo 384k		\$100 - DSL Modem	\$50.00
DSL - Solo 768k		\$200 - DSL Router	\$69.00
DSL - Solo 1.5M		\$200 - DSL Router	\$89.00
DSL - Solo 3M		\$200 - DSL Router	\$109.00
DSL - Solo 6M		\$200 - DSL Router	\$139.00
<p>Note: A LEC-provided POTS line is required for all Internet DSL - Solo orders. If a LEC-provided POTS line is not in place already, one will have to be provided by the customer. Internet DSL - Solo is not available on Verizon UNE-P lines. Speeds listed are download.</p>			
Number of Static IP Addresses 2			Free*
Number of Static IP Addresses 6			\$10

**APPENDIX D - ALTERNATIVE ACCESS OFFERINGS PRICING
 (THIS APPENDIX, TOGETHER WITH APPENDICES B AND E, SHOULD BE
 SEPARATED FROM THE TECHNICAL PORTION OF VENDOR RESPONSES AND BE
 INCLUDED IN VENDOR'S SEALED, COST PORTION OF THEIR RESPONSE TO THIS
 RFP.)**

Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Number of Static IP Addresses 14			\$15
Number of Static IP Addresses 30			\$20
Number of Static IP Addresses 62			\$35
Number of Static IP Addresses 126			\$45
Number of Static IP Addresses 254			\$65
A standard block of two (one routable) LAN IP addresses is included as the default with all line orders. If additional LAN IP addresses are required, they can be ordered with pricing as shown in the table above.			
Missed Appointment Fee		\$ 99	
Professional Installation Option (DSL - Solo 768K - 6M - Standard Hours)		\$ 400	
Installation - Customer-Initiated Trouble Ticket Dispatch (DSL - Solo 384K only)		\$ 199	

SAMPLE PRICING

Pricing for the State of West Virginia has been developed by Verizon Business to offer the most flexible and the most cost efficient solutions design. In order to provide the State the choice of the most effective mix of services at the best possible rates most of Verizon Businesses network elements are offered in an ala carte pricing menu. For example each location can select from different Access types, Access speeds, PIP port speeds, Real Time/Qos speeds, VoIP services, and Managed services. This offers each location the flexibility to only purchase what it needs and the flexibility to meet future needs rapidly as that locations communications need change. This environment also offers each location a smoother migration to convergence of voice and data but the ability to develop the end solution all at once or one step at a time.

Listed below, Verizon Business has detailed examples of how this flexibility can be applied.

Pt to Pt T1 with 1.54 Mbps PIP

Pt to Pt T1 Access	\$285
PIP Dedicated Port	\$200
Total	\$485

Following Class of Service come Standard with Dedicated Port at no additional charge.

Queue	Naming
AF41 AF42/43	Video / Priority Data
AF31/ AF32/33	Mission Critical Data
AF21 AF22/23	Transactional Data
AF11 AF12/13	General Data
BE	Default

Pt to Pt T1 with 1.54 Mbps PIP with Gold CAR (Gold CAR adds EF Cos)

Pt to Pt T1 Access	\$285
PIP Dedicated Port 1.54 Mbps	\$200
Gold CAR 1.54 Mbps	\$25
Total	\$510

Following Class of Service supported.

Queue	Naming
EF	Real Time / Voice
AF41 AF42/43	Video / Priority Data
AF31/ AF32/33	Mission Critical Data
AF21 AF22/23	Transactional Data
AF11 AF12/13	General Data
BE	Default

VoIP Pricing Example

T1 Access with Gold Car	\$510.00
38 Simultaneous Calls Tiered (38 x \$15.30)	\$581.40
Total	\$1091.40

This application would support multiple end users like a traditional PRI with 23 simultaneous calls. The number of simultaneous calls can be selected by the customer.

Ethernet Pricing Example to PIP

100 Mbps with 20 Mbps EVC to PIP	\$1430.00
20 Mbps PIP Port	\$1200.00
5 Mbps Gold CAR (156 Sim Calls)	\$312.80
Total	\$2942.80

The above example would give 20 Mbps access to the PIP core with all 5 COS. Then Gold CAR would provide 5 Mbps of capacity for EF traffic if needed.

Price Comparison of Typical Application

Current User with T1 Frame Access and 25 TDM Centrex Stations.

Frame Relay	\$380.00
Centrex (25 x \$24.24)	\$606.00
Total	\$986.00

New User with Pt to Pt Dedicated to PIP and VoIP

Pt to Pt Dedicated Gold Car	\$510.00
Hosted IP (7 Sim Calls) (7 x \$31.50)	\$220.50
Feature Packages (18 x 4.50)	\$81.00
Total	\$811.50

Site Savings of Up to \$174.50. In addition this site would have 10,500 minutes of free Domestic LD.

APPENDIX E – PRICING FOR ALL VENDOR-PROVIDE OPTIONS

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Ethernet			
Customer Service Management		\$350.00	\$150.000
Managed LAN Network Services			
Small Devices Cisco 2XXX Series	Attachment C		
Medium Devices Cisco 3XXX & 4XXX Series	Attachment C		
Large Devices Cisco 6XXX Series	Attachment C		
Managed LAN Full Management	3.2		
Small Devices		\$350.00	\$55.93
Medium Devices		\$350.00	\$71.91
Large Devices		\$350.00	\$131.84
Managed LAN Physical Management	3.2		
Small Devices		\$350.00	\$47.94
Medium Devices		\$350.00	\$63.92
Large Devices		\$350.00	\$111.86
Managed LAN Monitor & Notify Mang.	3.2		
ANY SIZE		\$350.00	\$42.30
Managed WAN Network Services			
Small Devices Cisco 1XXX & 2XXX Series	Attachment C		
Medium Devices Cisco 3XXX & 4XXX Series	Attachment C		
Large Devices Cisco 7XXX Series	Attachment C		
Managed WAN Full Management	3.2		
Small Devices		See Below	\$123.85
Medium Devices		See Below	\$159.80
Large Devices		See Below	\$267.67

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Managed WAN Physical Management	3.2		
Small Devices		See Below	\$107.87
Medium Devices		See Below	\$135.83
Large Devices		See Below	\$227.72
Managed WAN Monitor & Notify Mang.	3.2		
Small Devices		\$350.00	\$55.93
Medium Devices		\$350.00	\$63.92
Large Devices		\$350.00	\$95.88
Non-Recurring Charge Type (per device)			
Managed Takeover		\$450.00	
Managed Implementation (New Install)		\$550.00	
Managed Migration		\$375.00	
Expedite Charge (15 days or less to activate Device)		\$1100.00	
Rescheduling Charge (Reschedule of Device within 48 hrs of scheduled activation)		\$300.00	
After Hours Change		\$600.00	
Manage IP PBX Service	3.1.14.7	ICB	ICB
<i>Managed IP PBX pricing is ICB and dependant on Customers Make and Model</i>			

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	ISDN (Per Minute / Per Endpoint)	IP (Per Minute / Per Endpoint)
IP & ISDN Video Services	3.1.13.2.1			
IP Set Up Fee				
Per Endpoint	3.1.13.2.1	\$20.00		
or				
Per Company	3.1.13.2.1	\$1,000.00		
IP Dial-Out Fee (Per IP Endpoint per Call)	3.1.13.2.1			\$25.00
Bridge Rate (Per Minute/Per Site)	3.1.13.2.1			
(Bridge Rate applies to both Meet Me and Dial Out Calls)	3.1.13.2.1			
Tier One (Up to 384K)	3.1.13.2.1		\$0.87	\$0.87
Tier Two (385K to 768K)	3.1.13.2.1		N/A	\$1.31
Tier Thres (769K to T1)	3.1.13.2.1		N/A	\$1.98
Instant Video (Up to 384K)	3.1.13.2.1		\$0.80	\$0.80
ISDN Transport Rates (Per 2 channel (112K/128K) / Per Minute Per Site)				
ONLY Charged for Dial Out Participants	3.1.13.2.1			
Region 1 - North America	3.1.13.2.1		\$0.4000	
Region 1 - United States	3.1.13.2.1		\$0.1975	
Region 2 - Europe	3.1.13.2.1		\$0.4000	
Region 2 - United Kingdom	3.1.13.2.1		\$0.4000	
Region 3 - Australia	3.1.13.2.1		\$0.4000	
Region 3 - Hong Kong	3.1.13.2.1		\$0.4000	
Region 3 - Japan	3.1.13.2.1		\$0.4000	
Rest of World	3.1.13.2.1		\$0.4000	
Features (Per Minute/Per Call)	3.1.13.2.1			
Premier Service (Per Minute/Per Call)	3.1.13.2.1		\$1.50	\$1.50
Transcoding (Per Minute/Per Transcoded Site)	3.1.13.2.1		\$0.75	\$0.75
Encryption (Per Minute/Per Endpoint)	3.1.13.2.1		\$0.10	\$0.05
Gateway (IP to ISDN Protocol Conversion)	3.1.13.2.1		N/C	N/C
Audio Add On (Per Minute/Per Site)	3.1.13.2.1		\$0.25	\$0.25
Cancellation Charges - are based per site, not per conference	3.1.13.2.1			
If a call is cancelled more than 2 hours prior to scheduled call time	3.1.13.2.1		0% of reserved port charges	0% of reserved port charges
If a call is cancelled less than 2 hours prior to scheduled call time	3.1.13.2.1		50% of reserved port charges	50% of reserved port charges
If call is not cancelled	3.1.13.2.1		100% of reserved port charges	100% of reserved port charges

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
VOIP			
Hosted IP Centrex	3.1.14.7		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00
Integrated Access	3.1.14 & 3.1.15.20		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
IP Trunking	3.1.14 & 3.1.15.21		
Access Pricing (Select from PIP or IDA)			
Simultaneous Calling Options			
Service Establishment		\$750.00	
Unlimited Domestic LD Offnet Calling	3.1.15.4.1		\$36.00
Tiered 1500 Minutes of Domestic LD Offnet Calling	3.1.15.4.2		\$31.50
Local Calling Only (Metered LD)			\$15.30
Overflow LD			\$0.023
Feature Pricing	3.1.15		
Feature Profile (each)			\$4.50
DID Charges (per block of 20)		\$5.00	\$5.62
Web Voicemail (each)			\$4.50
Remote Office (each)			\$9.00
Attendant Console			\$18.00
Auto Attendant (per layer)			\$27.00
Accounting/Authorization Codes			\$9.00
*Service must terminate into a Verizon Business VoIP certified Router/Gateway with a PIX firewall. Current Certified Models are listed below.			
VoIP CPE Pricing			
Cisco 3745 DS3		\$13,120.00	
Cisco 2811 (1-PRI)		\$5,690.00	
Adtran 908 E 1-T1, 8FXS, 1PRI		\$1,858.00	
Adtran 924 IDA		\$2,504.00	
Cisco Pix 501(1-25)		\$637.00	
Cisco Pix 506 (26-50)		\$893.00	
Cisco Pix 515 (51+)		\$2,874.00	
Cisco 3550 (24 port POE)		\$2,237.00	
Mediatrix 1104		\$328.00	
Mediatrix 1124		\$1,772.00	
Polycom IP601		\$266.00	
Polycom Expansion Module		\$199.00	
Polycom IP600		\$266.00	
Polycom IP501		\$180.00	
Polycom IP301		\$120.00	
Cisco 7960G		\$372.00	
Cisco 7940G		\$312.00	

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Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
Cisco 7912G		\$228.00	
VoIP listed in this Appendix E also due to Section 3.1.14.7 Request.			
IP Telephony Professional Services	3.1.14.2	\$250/hr	

West Virginia Office of Technology

PART 1 GENERAL INFORMATION/TERMS AND CONDITIONS

1.1 Purpose:

The Acquisition and Contract Administration Section of the Purchasing Division, hereinafter referred to as "State", is soliciting proposals for the Department of Administration, West Virginia Office of Technology (WVOT), hereinafter referred to as "Agency", to replace the WVOT's aging statewide, private OC-3, DS-3 backbone that now serves state Agencies, higher education, county and municipal government, schools, libraries, and law enforcement, with an aggregated ATM, Frame Relay, DSL and a separate Voice/DAIN/Centrex network. As the business needs of the State have changed over the life of the existing network; it has become evident that the State needs to move toward a vendor-provisioned network that is more robust, flexible, redundant and capable of combining the needs of video, voice, and data onto one platform, in an effort to reduce the State's overall communications cost. The Voice/DAIN contract will stay in effect, with the expectation that migration from the DAIN to IP Trunking and Hosted IP Voice Solutions will take place over the life of the MPLS contract and subsequent renewals.

1.2 Project:

It is the State's desire to select an experienced Prime Vendor that will result in the State of West Virginia having a Multi-Protocol Label Switching (MPLS) network which will be utilized by all non-exempt, and most exempt, State Agencies and may be leveraged by County and WV Municipalities. The Core MPLS Network cost is to be bid at a zero dollar cost over the life of the contract. The cost of said MPLS core described in detail herein this RFP document will be distributed over the thousands of voice and data connections in a "postage stamp" pricing approach. The pricing of said voice and data connections are to be based solely on the Access Type, Port Size and Class of Service. The winning Prime Vendor will be evaluated based on experience in deploying like size, or greater, MPLS Networks and their response to the requirements of this RFP. Vendors should demonstrate the ability to meet the State of West Virginia's specific needs and the ability to smoothly transition from our current Voice/DAIN & DATA 05 Contract Network environment(s) in the time allocated to complete the transition.(Response to the technical portion of the RFP).

The Vendor will be evaluated based upon their technical ability, experience, and the overall value of their products and services in the technical evaluation, (70%) and the overall costs (30%) of said products and services based on three (3) intelligently projected cost evaluation scenarios, in accordance with the Department of Purchasing's guidelines.

The Office of Technology realizes that many of our State's counterparts' procurements of MPLS Networks resulted in a consortium of Vendors working together under a Prime Vendor to deliver the best value solution. That approach is certainly viable here in West Virginia, however it is not required and in any case the Prime Vendor will be solely responsible for the delivery and maintenance of the contract receivables. The Office of Technology is utilizing and leveraging several of our State counterpart's RFPs, as well as our subscription to Gartner, to develop this RFP with strong, enforceable, Service Level Agreements.

1.8.2 Contract Terms and Conditions:

This Request for Proposal contains all the contractual terms and conditions under which the State of West Virginia will enter into a contract.

1.15 Public Record:

1.15.1 Submissions are Public Record

All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All bids, proposals, or offers submitted by bidders shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the award is complete and documents have been microfilmed.

1.15.2 Written Release of Information

All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplications fees paid in advance. Duplication fees shall apply to all requests for copies of any document. Currently the fees are \$0.50/page, or a minimum of \$10.00 per request which ever is greater.

1.15.3 Risk of Disclosure

The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a bidder are the only exemption to public disclosure. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State will make a reasonable effort not to disclose information that is within the guidelines of §29B-1-4 and is properly labeled "proprietary information not for public disclosure". The State does not guarantee non-disclosure of any information to the public.

1.19 General Terms and Conditions:

By signing and submitting their proposal, the successful Vendor agrees to be bound by all the terms contained in this RFP.

1.19.1 Conflict of Interest:

Vendor affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The Vendor further covenants that in the performance of the contract, the Vendor shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

1.19.2 Prohibition against Gratuities:

Vendor warrants that it has not employed any company or person other than a bona fide employee working solely for the vendor or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract.

For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

1.19.3 Certifications Related to Lobbying:

Vendor certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Vendor shall complete and submit a disclosure form to report the lobbying.

Vendor agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

1.19.4 Vendor Relationship:

The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Vendor shall be responsible for selecting, supervising and compensating any and all individuals employed pursuant to the terms of this RFP and resulting contract. Neither the Vendor nor any employees or contractors of the vendor shall be deemed to be employees of the State for any purposes whatsoever.

Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The Vendor shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

1.19.5 Indemnification:

The Vendor agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials or supplies in

connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the Vendor, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

1.19.6 Contract Provisions:

After the successful Vendor is selected, a formal contract document will be executed between the State and the Vendor. In addition, the RFP and the Vendor's response will be included as part of the contract by reference. The order of precedence is the contract, the RFP and the Vendor's proposal in response to the RFP.

1.19.7 Governing Law:

This contract shall be governed by the laws of the State of West Virginia. The Vendor further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

1.19.8 Compliance with Laws and Regulations:

The vendor shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The Vendor shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

1.19.9 Subcontracts/Joint Ventures:

The Vendor is solely responsible for all work performed under the contract and shall assume prime contractor responsibility for all services offered and products to be delivered under the terms of this contract. The State will consider the Vendor to be the sole point of contact with regard to all contractual matters. The Vendor may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the vendor is totally responsible for payment of all subcontractors.

1.19.10 Term of Contract & Renewals:

CONTRACT TERMS

The contract becomes effective on August 10, 2007 will remain in effect through June 30, 2009, with an option to renew for three (3) additional two (2) year periods.

This contract will not be a split award. The Sole winning Vendor may sub-contract within the proper guidelines determined by the State of West Virginia's Purchasing regulations, but the Prime Vendor shall be responsible for all criteria deliverables, SLA commitments etc..

The successful vendor must sign the attached WV-96 or applicable AG/WVOT Purchasing approved alternative form prior to award. All vendors should sign and include the WV-96 form with their proposal.

To the extent permissible by law, the vendor shall extend to the State the lowest rates and charges for all services provided in response to this Request for Proposal that it offers to any other customer similarly situated with respect to volume of service.

Describe in detail how the vendor plans to meet or exceed the aforementioned.

1.19.11 Non-Appropriation of Funds:

If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the vendor written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

1.19.12 Contract Termination:

The State may terminate any contract resulting from this RFP immediately at any time the Vendor fails to carry out its responsibilities or to make substantial progress under the terms of this RFP and resulting contract. The State shall provide the Vendor with advance notice of performance conditions which are endangering the contract's continuation. If after such notice the Vendor fails to remedy the conditions contained in the notice, within the time period contained in the notice, the State shall issue the Vendor an order to cease and desist any and all work immediately. The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination.

The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

1.19.13 Changes:

If changes to the original contract become necessary, a formal contract change order will be negotiated by the State. The State recognizes that MPLS Networks routinely offer new access types and services to the Network Core. The State reserves the right to leverage these network enhancements and incorporate them into the contract, as they become available. These new features, services and access types connected to the MPLS Core will be considered routine technology refresh to this contract. **For all other changes to services NOT connected to the MPLS Core, a standard Change Order must be approved prior to utilizing these new services.** WVOT and the Vendor will address changes to the terms and conditions, costs of work included under the contract. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia's Attorney General's Office, encumbered and placed in the U.S. Mail prior to the effective date of the amendment. An approved contract change order is required whenever the change affects the payment provision and/or scope of the work. Such changes may be necessitated by new and amended Federal and State regulations and requirements.

As soon as possible after receipt of a written change request from the State, but in no event more than thirty (30) days thereafter, the Vendor shall determine if there is an impact on price with the change re-quested and provide the Agency a written statement identifying any price impact on the contract or to state that there is no impact. In the event that price will be impacted by the change, the Vendor shall, provide a description of the price increase or decrease involved in implementing the requested change.

NO CHANGE SHALL BE IMPLEMENTED BY THE VENDOR UNTIL SUCH TIME AS THE VENDOR RECEIVES AN APPROVED WRITTEN CHANGE ORDER.

The successful vendor shall participate in the E-Rate program. The vendor shall register with the Schools and Library Division of the Universal Service Administrative Company (USAC) and get a SPIN (service provider) number. Vendor must register with the USAC each year of the contract term. Vendor must remain in good standing with the USAC. Any pre-discounted E-Rate pricing will be billed to the end-sure, as dictated by the WVOT.

1.19.14 Invoices, Progress Payments, & Retainage:

The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency on the basis of percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, Vendor is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the Vendor's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

1.19.15 Liquidated Damages: According to West Virginia State Code §5A-3-4(8), Vendor agrees that liquidated damages shall be imposed at the rate of \$1,500 per day for failure to provide (deliverables, meet miles stones identified to keep the project on target, or failure to meet specified deadlines) This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue to any other additional remedy to which the State or Agency may have legal cause for action including further damages against the Vendor.

1.19.16 Record Retention (Access & Confidentiality):

Vendor shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by Vendor. The Vendor shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at Vendor's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Vendor shall have access to private and confidential data maintained by Agency to the extent required for Vendor to carry out the duties and responsibilities defined in this contract. Vendor agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breach of confidentiality by the Vendor, subcontractors, or individuals permitted access by Vendor.

PART 2 - OPERATING ENVIRONMENT

2.1 Location:

Agency's central site is located at One Davis Square, Charleston, West Virginia. West Virginia Office of Technology (WVOT) has the statutory responsibility to provide technology leadership for most State of West Virginia entities, including selection and adoption of Information Technology policy and standards and governance for expenditure of funds for Information Technology products and services. Every Executive Branch department, agency, board, bureau, commission, and authority that is subject to WVOT's jurisdiction will be required to participate in the final contract awarded under this RFP unless substantial costs can be avoided by other means of transport or a justifiable benefit can be demonstrated to the WVOT to purchase outside the awarded contract. All other State governmental entities including, but not limited to, exempt Agencies, the Judicial Branch, the Legislative Branch, the Higher Education System of West Virginia, as well as counties, and municipalities may voluntarily participate. It is anticipated that, at a minimum, the K-12 and Libraries, the Judicial and certain Higher Education entities will participate, and a factor of their Access circuits has been included in the costing scenarios for Access Circuits and Lines.

2.2 Background:

The West Virginia Office of Technology (WVOT) intends to replace its aging OC-3, DS-3, Centrex/DAIN and ATM/ Frame Relay (FR) network, and with time, its Centrex/DAIN contract, with a modern statewide MPLS VPN (Multi-Protocol Label Switching Virtual Private Network), for use by WVOT and WVOT customers; including state agencies and state, county, and municipal units of government, the Higher Education System of West Virginia, as well as schools and libraries. The planned MPLS VPN should enable WVOT customers to enjoy economical and reliable network access, regardless of location, and to enforce post-911 security requirements and privacy regulations. Implementation of new network technology should help agencies limit future cost growth for the network services needed to support mission-critical business requirements. The planned MPLS VPN will provide for data and video in its initial deployment, to include video conferencing, distance learning and telemedicine needs. WVOT is seeking an MPLS VPN design that will also support the deployment of Voice over IP (VoIP), specifically VoIP Trunking to CPE, "Hosted IP Centrex", (See ~~IP Centrex/Hosted IP Voice Services, Section 3.1.15~~) to begin approximately three to six months after the initial deployment of the MPLS VPN.

Today, the State of West Virginia operates and maintains statewide networks for data, video and voice transmission. The current network is primarily based on mature ATM & Frame Relay (FR) technology, back-hauled and connected on linear non-redundant OC-3's and DS-3's and a separate DAIN Voice Network. This requires many individual circuits from all parts of the state to be back-hauled to Charleston, and/or Clarksburg/Morgantown, to connect with the rest of the State's network and the Internet. The State's Video Conferencing needs vary greatly and are often Agency-specific. The current ISP, WVNET, allocates bandwidth on the OC-3's and DS-3's as well as offering Video Bridging services. The voice network consists of point-to-point circuits, aggregated PRI's and Centrex Lines, and utilizes the OC-3 and DS-3 backbone, but as well as a public switched telephone network. Recently, business and security requirements have changed significantly, and new, cost-effective network technology has become available.

Over the last few years, agency business requirements for bandwidth have steadily increased because of the addition of new mission-critical business applications that utilize the network, and because of the proliferation of useful IP-based protocols that these applications use. The

WVOT anticipates this growth rate to continue increasing exponentially as the State embraces 21st. Century technological initiatives including, but not limited to; E-government, E-education, virtual classrooms/distance learning and Telemedicine for the West Virginia Health Network.

Agencies are experiencing a dramatic increase in requirements for secure communications, including use of virtual private circuits, encryption, authentication, and intrusion detection. Most of these new security and privacy requirements, such as the Health Information Portability and Accountability Act (HIPAA), the Criminal Justice Information System (CJIS), or Graham-Leach-Bliley, arise from the need to satisfy Federal legislation and regulations, but some arise indirectly from the need for secure communications with State business associates, such as financial institutions, health care providers, and insurance companies which are also directly impacted by these Federal requirements.

Newer, reliable, economical, and more flexible core network technology, MPLS, has become widely available, promising better service to agency users. Additionally, less costly and more flexible network access technology such as DSL and 802.11x wireless access have become widely available. Agency demand for these technologies is strong. The need for more flexible "Hosted IP Centrex", and IP Trunking to IP based CPE/PBX's etc is also growing at a rapid rate. The Prime vendor will be required to provide these services at fixed prices throughout the State of WV regardless of ILEC, LATA or geographic density.

The planned MPLS VPN will serve the Agencies' business requirements for more bandwidth for business-critical applications, provide the foundation for secure data, video, and voice communications, provide a more reliable and more flexible core network, and, in many cases, provide network access that is far more economical than that presently available, especially for smaller government offices.

WVOT has gained practical MPLS VPN insight through recent reviews of successful Federal, State and Municipal as well as Private Sector MPLS VPN procurements or installations. The WVOT has also consulted Gartner Group, to whom which we are a subscriber, and they have confirmed our findings. The reviews were conducted to demonstrate the advantages and practicality of MPLS technology now available. Insight gained indicates that the redundant core topology of the planned MPLS VPN should alleviate the need to back-haul most network communications to Charleston, and/or Clarksburg/Morgantown, and should provide higher reliability through the ability to re-route around failed network nodes. MPLS technology allows the use of Classes of Service that should facilitate rationing and prioritizing bandwidth to best serve mission-critical applications.

The MPLS VPN solution planned for West Virginia will allow for reliable, high-bandwidth connections to all State, County, and Municipal Agencies, regardless of their geographical location. Enabling quality, high-speed network access for State Agencies located in underserved areas, particularly outside the metro Charleston, and/or the Clarksburg/Morgantown areas, is a high priority. The new MPLS VPN core network will also support the delivery of mobile solutions to mobile workers such as:

- ❖ Public Safety workers and police officers needing real-time access to Motor Vehicle Registration, Drivers' License, and other information.
- ❖ The Department of Health & Human Resources (DHHR) staff performing on-site visits and using mobile technology to chart the progress of child placements.
- ❖ The Department of Natural Resources staff working throughout State Parks and preserves.

The design of the planned MPLS VPN will provide for toll-free statewide dial-up access to enable all home or regional office workers, even those without DSL or cable modems, to securely access the MPLS VPN core network. Secure virtual private circuits will connect the workers' computer to the new State network. This will allow each worker to perform secure transactions, to safely receive, edit, and transmit documents, and to remotely access essential business applications.

Certain technical features of MPLS technology, including full-mesh topology, provide the ability to establish and, as required, self-manage or contract the management of new Private Virtual Circuits (PVCs) quickly, and have the ability to manage traffic by Class of Service (CoS). Agency IT personnel will be able to classify traffic and manage bandwidth themselves or contract this from the winning MPLS Vendor or alternate systems Integrator as their Agency's specific applications dictate. This will provide WVOT with the ability to provide better network services to WVOT customers and to limit future cost of planned growth surrounding DR and business continuity issues. WVOT is committed to spending no more on the planned MPLS VPN, associated Access Circuits, and other related services, than it spends now for the existing OC-3, DS-3, ATM/Frame Relay-based network. In fact, WVOT expects that consolidation on a single managed network topology and careful selection of Access Circuits will allow for a significant spending reduction.

This Request for Proposals (RFP), as well as accompanying Appendixes & electronic links to Attachments and Exhibits, outlines and details the plan for the contemplated MPLS VPN and related services to be quoted by prospective Service Providers. WVOT will welcome proposals from each prospective Vendor that is interested in offering a realistic, complete, and economical design for the planned MPLS VPN, with the expectation that the design can be implemented well within the intended schedule described in this RFP. Proposals that offer even shorter MPLS VRF/VPN/PVC implementation timeframes will be preferred. The WVOT has stipulated that the successful Vendor must have (4) positive like-size MPLS deployments and should be committed to maintaining the stated MPLS core for the next 7 to 10 years.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 MPLS VPN Design Requirements:

The WVOT vision is an enterprise model that will foster a streamlined deployment of network components, leveraging all of the State's resources and reducing inefficiencies. MPLS is the procurement of a new enterprise communication platform under a Best Value approach. West Virginia's communication requirements span two areas: a routed component and a component integrating video, voice and other services requiring a constant traffic rate. Moving forward on the second component requires Industry expertise to define integration options for the State's current routed and non-routed infrastructures.

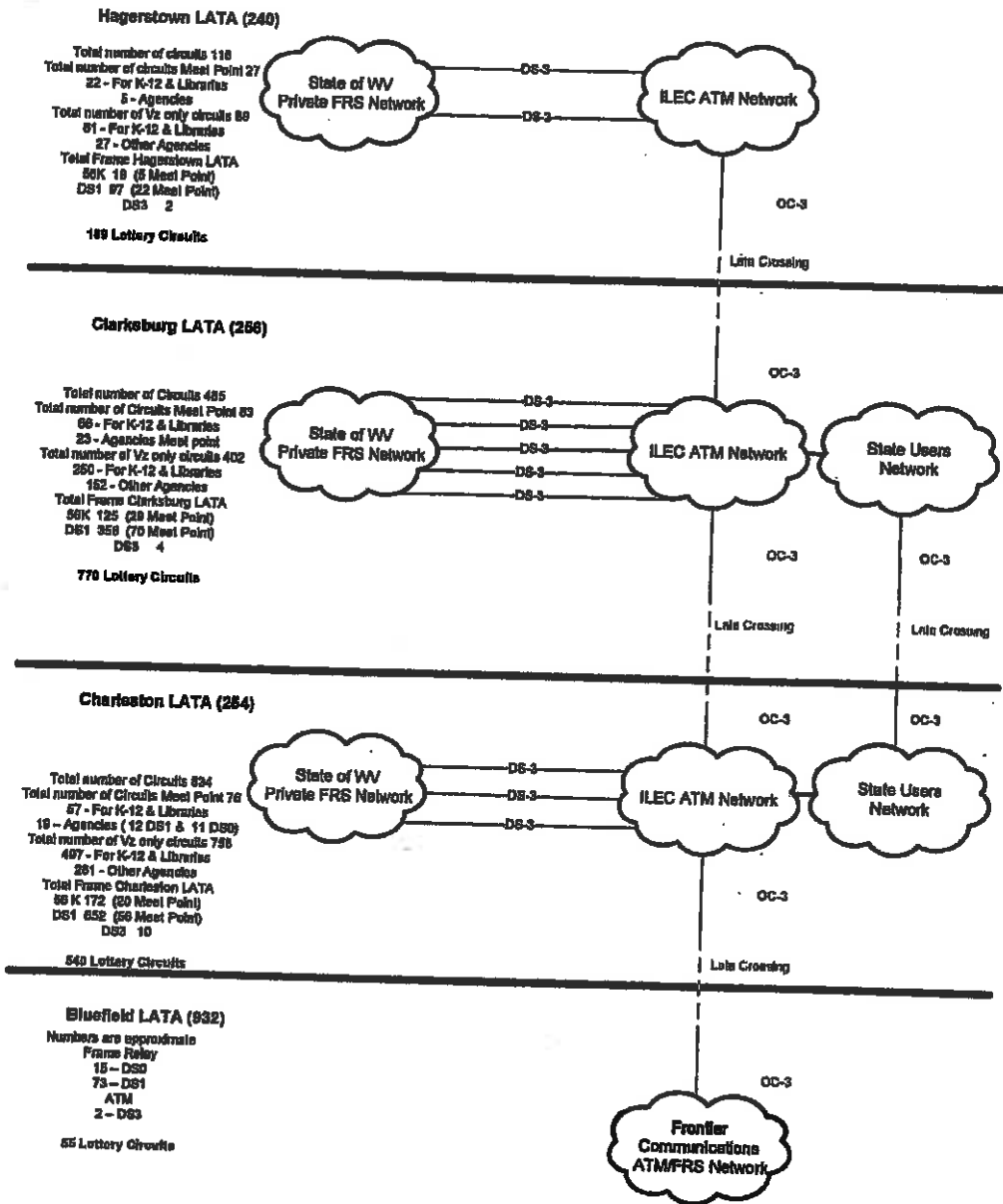
In providing more efficient network services, State agencies will have the potential of sharing access rather than buying individual connections. WVOT should have the ability to capture utilization by agency. Benefits of implementing this project include reduction of communications costs incurred, eliminating duplication of effort, robust connectivity and improved security -all within an improved cost avoidance environment. Once implemented, the new technical and administrative infrastructures will meet the growing needs of the State's agencies. The WVOT MPLS initiative will deliver a statewide infrastructure providing both technical and business solutions to the State of West Virginia and its customers.

3.1.1 Current Network

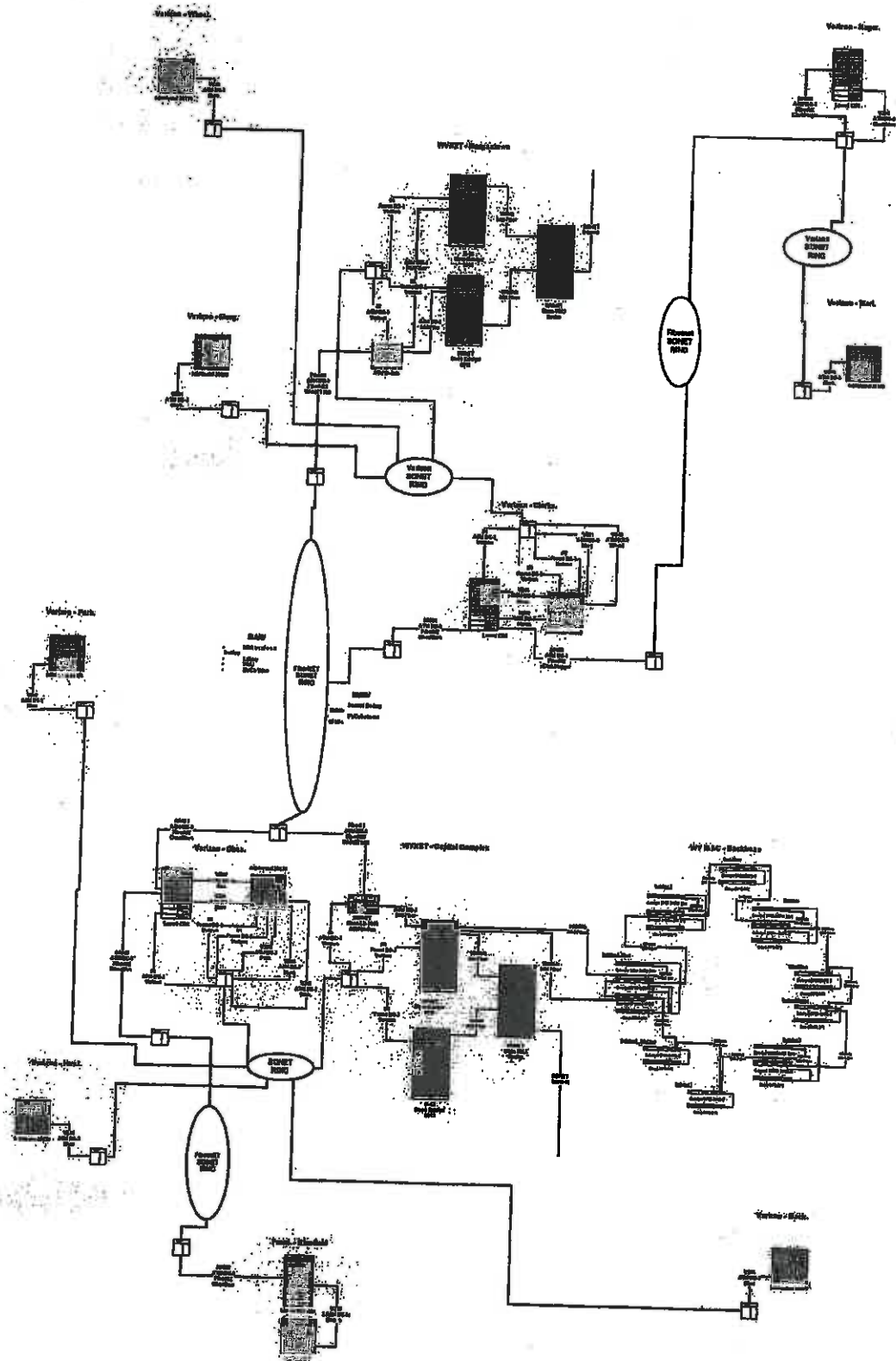
The State's wide area network is comprised of an IP-based network and an SNA network. This network is used for wide area connectivity to agency locations, to the State's central data center and for Internet connectivity.

The State purchases its current Frame Relay service statewide at speeds of 56Kbs to 45Mbs. There are approximately 1800 frame relay circuits statewide. All Frame Relay circuits are backhauled to the State's backbone hubs located in Clarksburg/Morgantown and Charleston. The central core of the IP network is located in Charleston and Clarksburg/Morgantown at central data centers and all locations are served and managed from these central hubs.

The following is a breakdown by LATA of approximate existing Data 05 Contract Circuits:



The following roughly depicts the existing State of West Virginia Network Backbone. It does not depict the various types and speeds of access to the Network.



State of WV
Physical Network Diagram

The SNA network serves locations throughout West Virginia. The network provides access to the central data center mainframe computers and has approximately 62 SNA controllers with 2

to 4 printers hanging from each, and 5 peer-to-peer connections. All of the SNA traffic is encapsulated in IP packets, so there is no reason to make special SNA provisions.

The State also operates an interactive video network to provide distance learning, telemedicine, and other programs and services. The West Virginia Statewide video conferencing network uses interactive H.320 video conferencing systems connecting over the existing backbone depicted on page 26. WVNET the State's current ISP and Network management Entity provides the video bridging for most State applications.

3.1.2 Envisioned Solution and Management Framework:

The WVOT is pursuing a new communications service that will give a logical transition from where WVOT is today, to an MPLS Private IP infrastructure. It is the WVOT's long-term goal to move to a common Private IP-based network. This new infrastructure will greatly assist West Virginia in the transition toward making government products and services available instantly, twenty-four hours a day, seven days a week, and to establish a common service delivery platform for the entire enterprise.

With a managed MPLS Core infrastructure and additional managed options and related services, the WVOT will be able to redirect technical personnel towards better integrating network services into the business process, quality assurance, and maintaining appropriate security. MPLS offers a simplified service-delivery methodology, instead of competing technologies and duplicative infrastructures.

3.1.2.1 The State desires the responding vendors provide the WVOT with their vision as to how deployment of a "next generation" network, such as the requested MPLS and associated services RFP, may have economic development and other infrastructure-based advantages that may benefit West Virginia's citizens and businesses. Per the specifications noted in this RFP, this network will be used by the State of West Virginia, its counties and municipalities.

3.1.3 MPLS VPN

Core Functionality:

The WVOT requires that Multi-Protocol Label Switching (MPLS) be a core technology of the proposed network. Vendor should describe their MPLS VPN network in enough detail for WVOT to evaluate the characteristics of the Vendor's network. Should include the following:

3.1.3.1 **MPLS Routing:** WVOT requires a core network that supports the Multi-Protocol Label Switching routing protocol. Confirm Vendor's compliance with this critical and describe the approach.

3.1.3.2 **Core Network:** Vendor should describe, in detail, the following:

- ❖ Core/backbone with a drawing including any aggregation services.
- ❖ Interconnections between aggregation services in different areas.
- ❖ Access circuit options.
- ❖ Location of Point of Presence (POP) that will serve this network.
- ❖ Class of switches in the POPs.

❖ **Capacity of Access Circuits within the Vendor's network.**

3.1.3.3 Logical Partitions: WVOT requires the ability to establish Logical Partitions of the enterprise facility that will be defined as dedicated networks for specific agencies. Confirm Vendor's compliance with this critical requirement and describe the approach for creating agency-specific "pipes" or Logical Partitions, within the common physical enterprise network, providing logical segregation with similar level of security as that of "private" networks built upon Layer 2 Private Virtual Circuits ("PVC"). NOTE: The State recognizes that, in some instances, a physical separation may be employed to accommodate the requirements.

3.1.3.4 VRF Management: WVOT requires the capability to scale up to fifteen private, individual networks/VPNs/VRFs, per location, on the same access circuit. Confirm Vendor's compliance with this critical requirement and describe the strategy for routing between the VPNs and managing the large number of VPN Routing and Forwarding (VRF) tables that such scalability would require.

3.1.3.5 Layer 3 Routing: WVOT requires that the Vendor provide a scalable Layer 3 routed backbone not requiring a full PVC mesh for optimal routing. Confirm Vendor's compliance with this critical requirement and detail how the network will provide a scalable Layer 3 routed backbone to include underlying technology.

3.1.3.6 Non-Standard Based Services: WVOT requires that the provisioning of services and related options will be handled by the Service Provider resulting in a standard, routed, IP only enterprise environment. Describe and explicitly identify all non-standards-based services to be used to provide MPLS VPN services.

Enterprise Network Addressing:

3.1.3.7 NAT Traversal: WVOT requires support for agencies attaching to the State's WAN that use private network addresses as specified in RFC 1918 (Network Address Translation). Some additional engineering may be required to support multimedia delivery to certain sites. Confirm Vendor's compliance with this critical requirement and demonstrate how Vendor's MPLS VPN core network will address duplicate NATed private address spaces within the enterprise network.

3.1.3.8 IPv6 Transition: The current State network uses an IPv4 network address scheme. Even though WVOT does not currently have a timeline for this transition, the Service Provider should work with current IPv4 network address scheme. The vendor shall propose a strategy and design for adopting and deploying IPv6 in an incremental, dispersed cost efficient manner, while providing direct interoperability between IPv6 and IPv4 systems. The vendor should have the capability to transport IPv6.0, and clearly state the date by which compliance with this critical requirement will be attained. NOTE: The State does not have a strong preference for how the vendor transports our IPv6 traffic.

3.1.4 Connectivity

3.1.4.1 Statewide Connectivity: WVOT requires communications with multiple locations in the state to conduct its business. The MPLS VPN core network should provide for the connectivity needs of all currently existing State of West Virginia sites. Types of acceptable access are listed, but not limited to, those provided in Pricing Appendix B, of this RFP. Appendix B lists access types, port sizes, and classes of service which will be used for pricing evaluation. Vendors may propose alternative access types which should be listed in Appendix

C, and priced separately in Appendix D. Confirm Vendor's compliance with this critical requirement. The State has included connectivity/transport access options that are likely to be utilized in the course of this contract in Appendix B. The vendor is required to provide the Access circuit types listed in appendix B when requested, within 60 days of said request, provided there are facilities for the request. The Vendor may be requested to extend facilities to new facilities within 120 days of request, or the State will maintain the option of procuring facilities from a third party or other means from the said new location back to the closest or most economic Vendor facility presence.

3.1.4.2 Future Statewide Connectivity: Beyond replacing the current network WVOT desires to ensure that the most cost effective access solutions are used for future connectivity to the MPLS VPN network. Future needs may include:

- ❖ New service addresses
- ❖ Field workers
- ❖ Temporary offices

These sites will exist in rural as well as metro areas. The Service Provider should be prepared to connect these sites in a postage stamp pricing manner. (e.g. all access types of the same type, port size and Class of Service are required to be the same across the State of WV). Vendors are encouraged to offer ideas and options reaching "outside the box" to ensure accessibility to State services. Responses should include a strategy to address these concerns.

Note: Vendors are hereby put on notice that no special consideration or access to State-owned communication towers or right-of-ways is being provided under this Procurement.

3.1.5 High Availability

High Availability and Reliability: WVOT requires that MPLS VPN core network have high Availability (as specified in the SLA) to properly support the wide range of mission-critical applications. Define the strategy and architecture for providing high Availability within the Service Providers core network to include distinguishing features and capabilities, for proposed services.

3.1.6 Quality of Service (QoS)

3.1.6.1 Quality of Service: WVOT should be able to assure agencies that critical applications receive SLA contracted resources across the network, despite varying network traffic loads - hence the need for enterprise QoS. A minimum of four (4) QoS options are required, however the State desires the vendor provide five (5) QoS options (per section 3.1.7.4.)

3.1.6.2 QoS Functionality within the MPLS (PE to PE): WVOT requires end-to-end IP QoS features to preferentially handle traffic as one of the network's fundamental design philosophies to accomplish the task of managing resources within the core network. The network should be able to prioritize traffic by tagging packets in order to utilize multiple queues for voice, video and other mission critical applications and to segregate such traffic from other traffic types that are more delay-tolerant.

3.1.6.2.1 QoS End to End (CE to CE): The WVOT strongly desires a list of options by location/circuit for QoS End to End Customer Premise to Customer Premise. WVOT realizes the vendor may have difficulty pricing said offerings, due to differences in customer premise routers. NOTE: The State of West Virginia has standardized on Cisco routers. WVOT also recognizes that the vendor should manage the customer

premise router. If possible, the State would like an option, by circuit type, port size and various Class of Service(s) (Best Effort to Real-Time) and number of VRFs, where the vendor supplies, manages and maintains the customer premise router. Associated pricing should be by access drop. Therefore, if the cost for a 10Mb Fast Ethernet circuit at one location, with one (1) VRF and two (2) Classes of Service, such as Best Effort and Real Time (or other vendor-offered traffic classes), the price would be \$X. Additionally, the same agency has four (4) sites, with identical parameters, and another site, serving as the main site, with a 100Mb circuit, four (4) VRFs, and the same two (2) Classes of Service offered at the remote sites, with a cost of \$Y. Based on these examples the State could assume that the price is four (4) times \$X, plus \$Y. NOTE: The vendor may wish to provide a table similar to the pricing charts provided for said managed QoS Customer Premise to Customer Premise, by access drop.

- 3.1.6.2.2 If the vendor will support management of the existing State-owned customer premise routers, configured as a CE to enable QoS, Customer Premise to Customer Premise, vendor should describe their ability to support of said scenario.
- 3.1.6.2.3 If the vendor does not support management of existing State routers, configured as CE, then vendor should describe their approach in this section, to working with the WVOT, or appropriate entity, to configure the existing CPE.
- 3.1.6.2.4 If neither scenario, as described in 3.1.6.2.1 and 3.1.6.2.2, apply to the vendor's offered solution, the vendor should state how the WVOT and associated MPLS customers will be able to achieve Customer Premise to Customer Premise QoS.
- 3.1.6.2.5 Non-standard QoS Services: Describe any QoS functionality that is unique to the Vendor's MPLS VPN network that is not based on industry standards.

3.1.7 Class of Service Forwarding (CoS)

- 3.1.7.1 **Class of Service Forwarding:** As deployed within MPLS VPN core network, MPLS Class of Service forwarding should be able to transport different types of traffic based on traffic filters, input interface, either DSCP or CoS values, MPLS labels, or any IP traffic pattern. Confirm Vendor's compliance with this critical requirement and define how the Vendor's MPLS VPN network transports different types of traffic.
- 3.1.7.2 **Forwarding Parameter:** Describe support for the ability to accept forwarding parameters from IP QoS and forward traffic based on those parameters.
- 3.1.7.3 **FEC Classes:** A minimum of four (4) Forwarding Equivalence Classes (FEC), are required, ranging from "Best Effort" to "Real Time." The WVOT desires that the vendor provide

five (5) FEC Classes of Service (see section 3.1.7.4). Confirm Vendor's compliance with this critical requirement and describe the Vendor's FEC classes.

3.1.7.4 Class of Service Table: Based on the following example Class of Service table, Describe Vendor's FEC classes in relation to the following table.

Example Class of Service Table

Class of Service	Description	Technical Provisions	Applications	Common Protocols
Teleworker	Best efforts connectivity for home office, wireless, or dial-in users at remote sites.	Latency, Bandwidth, Packet Delivery. Does not include Access Circuit.	Basic applications for teleworkers and travelers including e-mail, web browsing, Citrix, SSH, remote file access, FTP with dial-up, wireless, or DSL access.	IP, SMTP, IMAP4, POP3, MAPI, HTTP, HTTP IPsec, Novell Protocols, LDAP, SOAP S, FTP, SSH,
Standard Or "Best Effort"	Performance appropriate to most office and remote workers	Latency, Bandwidth, Packet Delivery. Includes Access Circuit, C.E. Router, and other CPE.	E-mail, web browsing, FTP, basic client-server transactions, VPN, SSH, Citrix, remote file shares, personal desktop streaming media including Real, WMA, QuickTime	IP, SMTP, IMAP4, POP3, MAPI, HTTP, HTTPS, FTP, SSH, IPsec, SNA, Novell Protocols, LDAP, SOAP
Enhanced	Performance appropriate to time-critical applications including transaction processing	Latency, Bandwidth, Packet Delivery. Includes Access Circuit, C.E. Router, and other CPE.	Business critical applications, PeopleSoft transactions, client server	IP, SMTP, IMAP4, POP3, MAPI, HT HTTPS, FTP, IPsec, SSH, SNA, Novell Protocols, LDAP, SOAP TP,
Premium	Performance to support real-time voice and video with provisions for control of Latency and Jitter	Latency, Bandwidth, Packet Delivery, Jitter. Covers Access Circuit, including C.E. Router and other CPE.	Video conferencing, streaming video, interactive video	To Enhanced, adds H.320 converted to IP, H.323, SIP, RTP, RTCP, RTSP
Real-time		Latency, Bandwidth, Packet Delivery, Jitter. Covers Access Circuit, including C.E. Router and other CPE.	Voice, IP telephony	To Premium, adds MGCP, H.248/Megaco, G.711, G.726 (40 Kb), G.723.1, G.729, SOAP (Skippy)

3.1.7.5 Adding FEC Classes: WVOT desires the Service Provider to be able to support additional FEC classes in the future. Describe the process for adding additional classes as necessary.

3.1.8 Bandwidth

3.1.8.1 Uniform Bandwidth Availability: WVOT strongly desires that the MPLS VPN network should ensure that bandwidth is provided uniformly across the Service Provider's core in order to provide predictable packet delivery. Describe Vendor's strategy for guaranteeing bandwidth across the MPLS VPN core network.

3.1.8.2 Rapid bandwidth increases are highly desirable. WVOT desires the capability of obtaining increases in bandwidth within a short timeframe. Beyond the logical service of altering CIR values, describe the technical features of the proposed MPLS VPN that will provide for the bandwidth of specific Service Addresses to be increased within a few days. For example: The Service Provider could participate with WVOT and agency staff working to anticipate where additional bandwidth needs will develop. The Service Provider could install high capacity Access Circuits and offer a reduction in monthly fees for unused capacity. Vendor should state if bandwidth on demand is not offered.

3.1.9 Bandwidth Reservation

WVOT strongly desires the ability to provide WVOT Customers with additional capacity on an Access Circuit as necessary to accommodate increases in traffic, such as a videoconference, or other special requirements. Describe Vendor's approach for providing Bandwidth Reservation.

3.1.10 Burst Capacity

WVOT strongly desires that circuits should be appropriately sized to provide the most cost effective transport based on the business needs of the agencies. However, occasional bursty traffic should be accommodated. Describe Vendor's strategy for supplying and managing burst capacity on a circuit.

3.1.11 Traffic Engineering

3.1.11.1 Vendor should describe their method of measuring and monitoring service levels on an end to end basis (CE to CE).

3.1.11.3 Capacity Management: WVOT strongly desires a methodology for capacity management and responsiveness. Define Vendor's methodology, timelines and any tools proposed.

3.1.11.4 QoS Methodology: WVOT requires a standards-based QoS or DiffServ aware Traffic Engineering ("TE") mechanism when making forwarding decisions for passing traffic through tunnels. Describe the methodology for QoS or DiffServ TE signaling.

3.1.11.5 Fault-Tolerance: WVOT requires fault-tolerance in the core as well as case-by-case on the access circuit, such as might be provided by backup tunnels. Describe Vendor's approach to fault-tolerance.

3.1.11.6 Traffic Rerouting: WVOT requires the capability to automatically reroute traffic in the event transport troubles are detected. Describe the procedures to be used to initiate automatic rerouting. Include any manual procedures. Describe rerouting actions; explain which transport facility has priority over others and who can in practice initiate manual rerouting of the MPLS VPN. Discuss WVOT's role in this area including how WVOT is notified when rerouting

occurs, what change procedures should be followed in the event WVOT initiates a request for change, and follow up procedures once a reroute has occurred.

3.1.11.7 Emergency Traffic Rerouting Notification: WVOT desires prompt notification when rerouting occurs in the MPLS VPN core network; especially, if the rerouting directs WVOT traffic to an alternate POP. Describe the proposed tools or procedures for this.

3.1.12 Data

3.1.12.1 Direct Layer 2 Transport: The State of West Virginia desires an explanation of Vendor's Layer 2 and Layer 3 transport offerings in the MPLS core.

3.1.12.2 Layer 2 Frames Transports: WVOT desires that Vendor's solution deliver Layer 2 frames. Define how Vendor's solution delivers Layer 2 frames.

3.1.12.3 Access Facility Types Supported: WVOT requires that Vendor support all Access Facility types listed in Appendix A which include, but are not limited to: transport DSL, transport ADSL, Frame Relay Circuits, clear channel transport circuits (F1), DS3, OC3, 10MB Fast Ethernet, 100MB Fast Ethernet, and 1GB Fast Ethernet. Vendor's response should confirm that these facility connections to the MPLS network are supported.

3.1.12.4 IPsec VPN Services: While IPsec VPN services are not a part of this MPLS procurement, the MPLS VPN will be required to function with IPsec VPN services as a fully integrated enterprise service offering. WVOT IPsec VPN solutions will need to be integrated within the enterprise communications offering. Describe Vendor's approach to prioritizing encrypted traffic.

3.1.12.5 SNA and Legacy Protocol Support: In addition to standard IP-based routing protocols such as BGP, EIGRP, WVOT requires that the Service Provider support protocols such as SNA. Confirm Vendor's compliance with this critical requirement and describe the approach and list the network protocols that will be supported in the proposed solution, including both routed and non-routed protocols. All of the State's SNA traffic is encapsulated in IP.

3.1.12.6 The State of WV cannot accept double billing therefore it is required that the MPLS Vendor provide the new MPLS Access Circuits Service at no charge until the existing facilities are removed and billing has ceased. This period is a "not to exceed" 30-day period, i.e., billing can commence 30 days after installation. **Exceptions to this are K-12 and the Library Commission which are subject to E-Rate and will be converted last. They will require ninety (90) days without double-billing.**

3.1.13 Multimedia:

3.1.13.1 The planned MPLS VPN should accommodate the secure connectivity, transmission and convergence of voice, video, and data application traffic. Within the State's enterprise, IP Multicast is the desired method to intelligently replicate a data stream, only where such replication is necessary, conserving bandwidth and resources.

3.1.13.2 It is highly desirable that the State of WV contract with a vendor who facilitates peering arrangements with multiple in-state broadband ISPs. This desirable is in an effort to promote West Virginia-based ISP services and facilitate efficient and optimal utilization of commodity Internet bandwidth into and out of the state. This will help facilitate applications such as multi-cast. Describe vendor's approach to accomplish the above.

3.1.13.2.1 The WVOT desires that bidding vendors explain, in detail, their IP Video Bridging Services offered, and if such services are proposed, please respond with the price of said optional services in Appendix E, and only Appendix E.

3.1.13.3 Signaling Protocols: WVOT requires that the proposed solution support signaling protocols including but not limited to the most currently approved versions of Session Initiation Protocol (SIP), H.323, Media Gateway Control Protocol (MGCP), and H.248/Megaco. SIP and H.323 use RTP to transport real-time transmission of multimedia data over network services. Real Time Protocol (RTP), Real Time Control Protocol (RTCP), and Real Time Streaming Protocol (RTSP) transport and manage the real-time transmission of multimedia data over network services. List the protocols Vendor intends to support. List and describe any non-standard protocols or extensions.

3.1.13.4 Multicast Update: The State of West Virginia desires vendors to explain how charges will be applied for Multicasting, and if they offer multicasting, the State desires a listing of all multicasting options. The multicasting option charges should be presented in the appropriate pricing appendix.

3.1.13.5 Compatibility: It is highly desirable that the Vendor's solution propose IP Multicast which supports compatible across multiple vendor platforms. Any State agency should be able to connect to the network and participate in IP Multicast network-wide, regardless of CPE manufacturer, as long as the CPE complies with standard IP Multicast protocols. The network should have the capability to run all standard IP Multicast and related generic protocols. Detail how Vendor's proposed solution can support standard IP multicast protocols.

3.1.14 Voice

3.1.14.1 CODECs: In order to support WVOT's plan to add VoIP services in the near future the network solution should support standard CODECs. Standard compression/decompression (CODEC) techniques, with their respective mean opinion scores (MOS), include, but are not limited to: G.711 – 4.3 MOS, G.729 – 4.0 MOS. What CODECs does the Vendor's solution support? Responses should include descriptions of any non-standard protocols or extensions.

3.1.14.2 Voice over IP: WVOT desires to allow telephony and other audio signals to be transported over the same network as regular data traffic. Describe how the proposed solution supports the eventual migration to a VoIP solution. Include information regarding the support of both a network based or WVOT premise based solutions and the risks and benefits of each approach. The State and WVOT recognize that we are responsible for preparing the premise infrastructure to support Voice and Video. With the understanding that the State has the obligation to ensure that the existing customer-premise LAN is designed to accommodate the desired volume of IP voice traffic needed to adequately support the number of simultaneous calls required; please describe:

- A: What process the vendor offers to audit the existing customer-premise LAN,
- B: What process the vendor will utilize to adequately size and specify the type of access facility from the MPLS CE to the customer-premise LAN,
- C: What process the vendor will use to recommend the Class of Service on said

recommended access type and size.

If possible, please provide an hourly rate for the auditing of the existing CPE LAN environments to ensure proper functionality for the above-stated utilization, following the noted instructions below.

3.1.14.2.1 The WVOT desires that the vendor describe how they will ensure voice quality IP phone to IP phone, in both a fully managed scenario, and in a scenario where the vendor has audited the existing CPE LAN and found it to be acceptable for the end users' intended IP voice volume. (e.g. How does the vendor measure and monitor voice quality from IP phone to IP phone in the aforementioned scenarios.)

3.1.14.3

The Vendor's solution should accommodate the existing analog TDM Voice (Centrex), PRI and existing T-1's provided by Verizon as it is converted to either a hosted IP based Voice solution or IP trunks on the new MPLS over a period of years. Describe in detail how the vendor proposes to allow the existing Voice Network to interact, (make toll free calls) without diminishing any other services during this multi year transition period. It is highly desirable that the State of West Virginia not increase toll costs during the transition from existing voice (DAIN) network to the new IP-based service on the MPLS.

3.1.14.4 It is a requirement that the MPLS network be able to carry the State's existing Centrex and PRI traffic once they are converted to Hosted IP Services and IP Trunking on the MPLS. State your compliance with this Critical requirement.

3.1.14.5 The new IP-based Voice product locations of any flavor should be able to call the legacy Centrex and PRI/DAIN locations without toll charges or any other ancillary charges until all desired Centrex and PRI's are converted to IP based voice solutions on the MPLS.

3.1.14.6 The State shall not incur double facility charges during this transition, therefore the winning vendor will need to install and test the IP voice circuits, and any hosted IP Voice Service, at no charge, until the Legacy Centrex and or other legacy voice service regardless of the legacy service, vendor, and location within the State of WV can be disconnected and billing for said legacy service is terminated with a limitation of 30 days after the new IP voice service is installed. Exceptions to this thirty (30) day limit are all E-Rate eligible entities, which may require ninety (90) days of duplicate service, without billing for the new service. Describe the specifics of how the Vendor plans to accomplish this requirement.

3.1.14.7 In addition to responding to the specific Hosted IP Voice solutions, often referred to as IP Centrex, as well the specific IP trunking requests in the pricing section, the vendor should list all VoIP, Hosted IP Voice, and IP trunks available as options in Appendix E. If the vendor provides any options other than the "Alternative access circuits" listed in Appendix C, they should provide pricing for these other options listed here in Appendix E. The vendor may

advance their technical position by being able to offer a variety of IP trunking facilities; beyond the required T-1 to Ethernet 10Meg, such as DS-3. If provided, the supplemental pricing for these options shall remain firm throughout the life of the contract. If the Vendor's IP trunking is specific to a given IP enabled Voice CPE manufacturer, please state so, and to which systems they are designed to connect. The State desires, at a minimum, that the IP trunking listed in the pricing section be available to (compatible with) both Nortel and Cisco CPE equipment. However, because County and other Municipalities are able, and encouraged, to utilize any contract resulting from the release of this RFP for new MPLS and associated services, accommodation of a variety of CPE manufacturers would be in the best interests of the Vendor, and the State as a whole.

3.1.14.8 The State of WV desires the following Hosted IP Voice Services as an optional case by case service for both complete Telephony "IP Centrex" and IP Trunking to be offered along with all other Access Circuits to the MPLS Network

The State of WV's target application includes Agencies and other qualified contract participants with the following:

- Advanced IP features and a desktop interface (web browser) for telecom managers to manage everyday functions such as moves, adds, changes, and deletes (MACD), as well as network applications
- Flexible growth choices, as afforded by the scalable and interchangeable products
- Require the cost savings associated with moving their voice traffic on to their (IP) networks
- The State does not want additional infrastructure investments or monthly maintenance costs

3.1.15 Hosted VoIP Service

3.1.15.1 Features and Benefits Overview

The Vendor's Voice over IP (VoIP) portfolio of products shall provide customers the ease and efficiency of one network for both voice and data services. The Vendor's VoIP offering should provide a migration path to full Voice over Internet Protocol (VoIP) by offering VoIP Trunking/IP Integrated Access and pure IP Voice path Circuits with a full range of features like today's traditional PRI service. This is intended to allow customers to use their existing IP enabled private branch exchange (PBX) or key system. Additionally where the State WVOT deems applicable the Vendor will offer at fixed tiered pricing Hosted IP Centrex that has access to all of the voice and network features.

3.1.15.2 The Vendor's VoIP portfolio of products should, as applicable, include the following:

- A converged network for voice and data, reduced from two separate voice and data networks, which will lower costs.
- A converged voice and data should make network management easier. Any number of sites can be accessed from any location via the MPLS or Internet.
- Total cost of ownership should be reduced in comparison to traditional disparate networks; and administrative and end-user productivity gains can be realized through use of advanced IP features and functionality.

- The Hosted offering should have unlimited local and unlimited or tiered blocks of intrastate and interstate long distance minutes in 6 second increments or better. NOTE: All calls from existing DAIN to MPLS locations and vice versa are by definition intercom calls and therefore no charges should apply. This unlimited calling or tiered blocks should apply to all local, in-state, and interstate long distance to all fifty states. Tiered plans are acceptable between 1,000 minutes per month per voice path to unlimited minutes per month per voice path. However, in the cost analysis section, the vendor is required to quote the tiered plan block of minutes that fits the number of minutes required in the cost chart and in the case of tiered or blocked number of minutes, the vendor should quote the over plan cost per minute per voice path.

3.1.15.3 Agency Intra-MPLS (VoIP trunking or Host IP Voice service) to other non-MPLS Agency VoIP Trunking or Hosted IP Service calling should, by definition, be toll free. For Intra-MPLS calling (i.e. for sites connected with VoIP, or the MPLS calling to sites not yet connected to the MPLS that are still on the DAIN, (existing Voice Network) these calls also should be toll free within WV.

3.1.15.4 The vendor, at a minimum, should offer the State WVOT two options for both VoIP trunking and Hosted IP Voice Service with respect to toll free service (Does not include 800 services).

3.1.15.4.1 **Option A:** Includes all types of VoIP trunks and Hosted IP Centrex Services offered that based on the number of possible voice paths or simultaneous calls from that Agency, on that VoIP circuit connected to the MPLS facility, that all 50 States will be unlimited toll free calling.

3.1.15.4.2 **Option B:** Allows Agencies with fewer LD minutes per month to receive a reduced rate on the VoIP trunks or Hosted Voice service, but cap the zero charge toll free to all 50 States in the US to 1200 minutes per simultaneous Voice path on said VoIP trunk or Hosted Voice Service. Describe in detail the Vendor's plans to accomplish the aforementioned. Vendors will be judged on both of these potential offerings in the pricing section on the three pricing scenarios, (Appendix B), however it is to the Vendor's advantage to offer even more options along these lines and provide pricing clearly referenced back to the section where the offering is listed in Appendix C and a list of corresponding pricing for said options only in Appendix D. These options will not affect the pricing section score, but may have a positive impact on the technical evaluation.

3.1.15.5 The State of WV cannot accept double billing, therefore it is required that the MPLS Vendor provide the new MPLS VoIP trunking or Hosted IP Voice Service at no charge until the existing DAIN facilities are removed and billing has ceased. This is a "not to exceed" 30 days after installation of the new service. **Exceptions to this thirty (30) day limit are all E-Rate eligible services, which may require ninety (90) days.**

3.1.15.6 The Vendor's services and features should be managed through a familiar, web-based portal using intuitive click-and-point controls, including for easy moves, adds, and changes.

3.1.15.7 The Hosted Voice offering should include flexible growth choices and the ability to support remote locations since the service is scalable and interchangeable with other VoIP services.

3.1.15.8 The Vendor's Hosted IP Services offering should include "Call Blast" feature that allows users to be reached at a variety of locations and devices – anytime, anywhere, anyplace.

3.1.15.9 The Vendor's offering should include a variety of packages with and without CPE, and with and without Voice mail and Unified Messaging. The State desires these versatile

service options, which provide the advantages of VoIP while eliminating the need for updating PBX equipment and the capital expenditure required for premise-based solutions.

3.1.15.10 The following tables describe the strongly desired optional features the Vendor should provide with their IP Voice Service. These specifications represent industry standard features and functionality which may be contained in the Vendor's solution, but may potentially be described with different language, or slightly altered specifications.

A detailed description of Call Types, Access Types, and Compression that should be supported by the Vendor's offering follows:

Feature	Description	
Outbound Long Distance Calls	Offers network gateways to the PSTN at the MPLS POP. The Vendor long distance telephone network, allowing the customer to complete off-net calls.	
Outbound Local Calls (network-based)	<p>Customers can dial local calls from their Session Initiation Protocol (SIP) phone or public switched telephone network (PSTN) phone. Replaces the need for a connection to the Local Exchange Carrier (LEC).</p> <p>With the products ordered a la carte, users can have a Direct Inward Dialing (DID) number (public phone number) assigned to their SIP phone or a PBX phone behind an Enterprise gateway. Local number portability will also be supported.</p>	
Outbound Local Calls (Customer Premises Solution)	<p>Customers who are outside the Vendor VoIP local footprint can deploy a Cisco enterprise gateway on their premises, which enables them to dial local calls.</p> <p>With the products ordered a la carte user can have a direct inward dial (DID) number (public phone number) assigned to their phone behind an Enterprise gateway. Local number portability will also be supported.</p>	
Inbound 8XX Calls	<p>Basic toll-free routing and termination. Enhanced toll-free routing capabilities are not supported.</p> <p>Calls are rated at standard toll-free rates. Bills and reporting generated via standard toll-free systems.</p>	
Dedicated Toll Free	With Dedicated Toll Free, the customer's Toll Free numbers terminate to the VoIP	

	platform and are converted to Toll Free Nodes Based Routing.	
Fax	Support for fax pass-through.	
Remote calling into private dial plan	Ability to set up a remote call in number for private dialing plan	
Dial Plan Integration	Provides the flexibility to have VoIP and traditional sites share a common dial plan. Note: VoIP integration with is restricted to 7-digit dial plans only.	
Web Center	Web Center contact center services can be used in conjunction with VoIP.	

3.1.15.11 Access Types

Feature	Description	
Internet Access	IA speeds available include T1 and T3 Internet Dedicated.	
Internet Access (IA) Shadow T1	Internet T1 Shadow is a redundant service option that provides an automatic back-up connection in the event of primary T1 failure.	
DSL Access	DSL speeds available include 384 Kbps and 768 Kbps. Note: Only SDSL is supported.	
MPLS	MPLS enables companies to share information across a MPLS backbone in a secure environment. MPLS service integrates the capabilities of layer 2 switching (ATM and frame relay) and layer 3 routing (IP) and evolves frame relay and ATM into IP-based services. MPLS access speeds available include 384K, 512K, 768K, T1, MLPPP/NxT1, and T3.	

3.1.15.12 Compression

Feature	Description	
G.711 Codec Support	Uncompressed voice (includes the bandwidth needed for frame or IP headers).	
G.729 and G.729A Codec Support	Compressed voice using the G.729 and G.729A codec (includes frame relay and/or IP headers).	

3.1.15.13 Network Features for Subscribers

Feature	Description	
Anonymous Call Rejection	<p>Enables a subscriber to reject calls from anonymous parties who have explicitly restricted their Caller ID. By activating the service via the Subscriber Web Interface, callers without available caller identification are informed that the subscriber is not accepting calls at that time. The subscriber's phone does not ring and the subscriber sees or hears no indication of the attempted call. This service does not apply to Intra-location calls.</p> <p>Only deliberate anonymous numbers are rejected. Callers whose numbers are unavailable are not rejected. Callers that are rejected are informed that the called party is not accepting calls from unidentified callers. ("The party you are trying to reach is not accepting calls at this time.")</p> <p>Note: The caller will be blocked altogether. The caller will not be forwarded to voicemail for example even if the called party has the voicemail feature.</p>	
Alternate Numbers	<p>Enables an administrator to configure up to two additional phone numbers and/or extensions to a subscriber. Normal ringing is provided for incoming calls to the primary phone number and subscribers have the option of enabling a distinctive ring for calls to their second and third phone numbers. If distinctive ringing is enabled, distinctive call waiting tone will also apply. For outgoing calls from the subscriber, the subscriber's primary phone number is the calling line identity.</p>	
Automatic Callback	<p>The Automatic Callback (ACB) service allows users to monitor a busy party and automatically establish a call when the busy party becomes idle.</p> <p>Upon reaching a valid ACB busy condition, the user will hear an announcement asking if they would like to monitor the line and be called back when it is idle. To activate ACB, the subscriber enters the digit prompted for then goes on hook. As soon as the called party becomes idle again, ACB attempts to re-establish the call between the subscriber and the previous busy party.</p> <p>The ACB service can only be activated against a destination within the same group.</p>	

Blind Call Transfer	<p>Enables a subscriber to transfer a call unattended before or after the call is answered. Subscribers can only execute blind call transfer from the Communication Manager.</p> <p>Note: When using the Cisco 1912, 7980, or 7940 phones, this call transfer feature can be negatively impacted if multiple incoming calls are received at the same time.</p>	
Call Blast Personal	<p>Call Blast enables subscribers to have multiple phones ring simultaneously when any calls are received on their VoIP phone number. The first phone to be answered is connected. Caller can also select to have simultaneous devices not ring while already on a call or ring on all incoming calls.</p>	
Call Forwarding Always	<p>Enables a subscriber to redirect all incoming calls to another phone number. If activated, a subscriber should specify the forwarding number. A status indicator on the Communication Manager identifies whether this service is enabled. Subscribers can also make their office phone emit a short ring burst to inform they are next to their phone when the call is forwarded by using the Ring Reminder.</p>	
Call Forwarding Busy	<p>Enables a subscriber to redirect calls to another destination when an incoming call encounters a busy condition. If activated, a subscriber should specify the forwarding number.</p>	
Call Forwarding – Multi-Phone	<p>Multi-Phone call forwarding allows an end-user to specify a different forwarding number for each entry of Selective Call Forwarding.</p>	
Call Forwarding No Answer	<p>Enables a subscriber to redirect calls to another destination when an incoming call is not answered within a specified number of rings. If activated, a subscriber should specify the forwarding number and the number of rings before forwarding.</p>	
Call Forwarding Selective	<p>Enables a subscriber to define criteria that causes certain incoming calls to be redirected to another destination. If an incoming call meets subscriber specified criteria, the call is redirected to the subscriber specified destination. A criteria set is based on incoming calling line identity, time of day, and day of week. Multiple criteria sets can be defined.</p> <p>All criteria should be met for a call to be forwarded in this scenario. If all criteria are not met, the call is delivered as if service was not available. Up to 12</p>	

	Incoming numbers can be defined for forwarding.	
Call Notify	Enables a subscriber to define criteria that causes certain incoming calls to trigger an e-mail notification. If an incoming call meets subscriber specified criteria, an e-mail (or short message to a cell phone) is sent to the notify address informing the subscriber of the details of the incoming call attempt. A criteria set is based on incoming calling line identity, time of day and day of week. Multiple criteria sets can be defined.	
Call Park	<p>Enables a subscriber to put a call on hold and then retrieve it from another station within the call pick-up group.</p> <p>To park a call, a subscriber depresses the flash hook and dials the call park feature code. The call is parked and the caller is held.</p> <p>To retrieve the call, the subscriber goes to any phone in the call pick-up group and dials the call retrieve feature code, followed by the subscriber's extension. The call is retrieved and connected to the retrieving subscriber. Subscribers can also execute call park via the Communication Manager.</p>	
Call Pickup	Enables a subscriber to answer any ringing line within their pick-up group. The administrator sets up the pick-up group which defines the set of subscribers to which the call pickup feature applies.	
Call Pickup Directed	Enables a subscriber to answer a call directed to another phone in their pick-up group by dialing the respective feature access code followed by the extension of the ringing phone.	
Call Pickup – Directed with Barge-in	<p>Directed Call Pickup with Barge-in (DPUBI) allows users to dial a feature access code (FAC) followed by an extension to pickup (answer) a call directed to another user in the same customer group, or barge-in on the call if the call was already answered. When a barge-in occurs, a three-way call is established between the parties with the DPUBI user as the controller.</p> <p>Subscribers can configure themselves as barge-in exempt so their calls can not be barged in on.</p>	
Call Return	To call back the last party that called, the subscriber dials the call return feature code. The system stores the number of the last party to call, and connects the	

	subscriber to that party.	
Call Screening by Digit Pattern	<p>Enables subscribers to specify digit patterns instead of individual phone numbers on the following selective services: Selective Call Forwarding, Selective Call Acceptance, Selective Call Rejection, Call Notification, and Priority Alert. Digit patterns consist of a sequence of digits followed by the * wildcard. For example, 240* would apply to any calls from phone numbers starting with 240.</p> <p>Also enables use of the "?" wildcard character in specifying digit patterns. The "?" wildcard character represents any single digit (0-9) and may be used multiple times anywhere within a digit string. The "?" wildcard may be used with or without the * wildcard at the end of the digit string.</p> <p>If the calling number is not available, the caller will get a network announcement that says, "The party you are trying to reach is not accepting calls at this time."</p>	
Call Transfer with 3-Way Consultation	<p>To initiate Call Transfer with 3-way Consultation, the subscriber depresses the flash hook and dials the add-on party. When the call is answered, the subscriber depresses the flash hook and forms a three-way call with the add-on party and caller. To transfer, the subscriber hangs up causing the caller to be connected to the add-on party. Subscribers can also execute call transfer with three-way consultation via the Communication Manager.</p> <p>Note: When using the Cisco 1812, 7960, or 7940 phones, this call transfer feature can be negatively impacted if multiple incoming calls are received at the same time.</p>	
Call-Waiting Enhancement	<p>When a second call is received while a subscriber is engaged in a call, the subscriber is informed via a call waiting tone. If using IP Phones, there is also an indicator on the phone. To answer the waiting call, the subscriber depresses the flash hook. The subscriber connects with the waiting party and holds the original party. By depressing the flash hook, the subscriber reconnects to the original party and holds the waiting party. The feature completes when any party hangs up. Subscribers can also execute call waiting via the Communication Manager.</p>	
Calling Line ID Blocking	<p>The subscriber controls the service via the Subscriber Web Interface, which provides the ability to activate and</p>	

	<p>deactivate the service. If activated, all calls made by the subscriber have the subscriber's identity blocked.</p> <p>Calling Line ID Delivery Blocking allows subscribers to block their number from being shown when calling other numbers except for intra-site calls which will always display the calling line ID. The feature can be enabled for all calls or it can be enabled selectively using the feature access codes.</p>	
<p>Calling Line ID Blocking per Call</p>	<p>In addition to being able to block the presentation of their Calling Line ID on all outgoing calls, subscribers also have the option of blocking on a per-call basis by dialing a feature code before making the call.</p>	
<p>Cancel Call Waiting/Call Waiting per Call</p>	<p>Allows subscribers with Call Waiting to deactivate/activate the operation of Call Waiting via the Subscriber Web Interface.</p> <p>In addition to being able to cancel call waiting for all incoming calls, subscribers also have the option of canceling their call waiting on a per-call basis by dialing a feature code before making the call, or after a switch-hook flash during the call.</p>	
<p>Communication Manager</p>	<p>The following features are included with the Communication Manager:</p> <p>Click-to-Dial Enables subscriber to input and dial a number, dial directly from a drop-down Phone List (Personal, location directory or Call Log) or Outlook tab, or click the Redial button.</p> <ul style="list-style-type: none"> • Talk Enables subscriber, who is already engaged in call, to answer another waiting call. When available, Calling Line ID is displayed with caller's name (if available Dependent on names in the contact list and on-net status) and number. • Call Hold/Retrieve Enables subscriber to place an existing call on hold for an extended period of time, and then retrieve the call to resume conversation. While the calling party is held, the subscriber may choose to make a consultation call to another party. • Call Transfer Enables subscriber to redirect a ringing, active, or held call to another number or directly to voicemail. Before transferring the caller, the subscriber may choose to 	

	<p>consult with the third party first or establish a three-way consultation.</p> <ul style="list-style-type: none"> • Conference Enables subscriber to establish a three-way call involving two other parties. • Hang up Call Enables subscriber to disconnect a call that has been answered. • Configure Services Buttons are provided to enable subscriber to turn on/off frequently used services such as Call Forwarding Always and Do Not Disturb. <p>Note: When using an IP phone as the terminating device, the Hold, Talk, Conference buttons are disabled (grayed out) on Communication Manager.</p> <p>Note: In order to use the Communication Manager, the user will have to download a java applet. Some companies configure their firewalls very strictly and prevent users from downloading java applications. In those cases subscribers will not be able to download the script and therefore will not be able to use the Communication Manager.</p> <p>Also note that if using Windows XP with SP2, the Vendor VoIP Application Servers may need to be added to the trusted security list in Internet Explorer.</p>	
<p>Communication Manager Express</p>	<p>Enables users to pre-configure multiple profiles for managing incoming calls differently based on the subscriber's status:</p> <ul style="list-style-type: none"> • Available in the Office • Available Out of the Office • Busy • Unavailable <p>Each profile includes preferences for managing the relevant incoming call functions (e.g., Call Forwarding (busy, no answer, always, selective), Simultaneous Ringing, Call Notify), which can be configured through a single easy-to-use web page or via the telephony user interface.</p>	
<p>Conferencing</p>	<p>Audio conferencing and Net Conferencing transported over The Vendor VoIP.</p>	
<p>Consultation Hold</p>	<p>To initiate consultation hold, the subscriber depresses the flash hook and dials the add-on party. When the call is answered, the subscriber can consult with</p>	

	<p>the add-on party. To drop the add-on party and reconnect to the original party, the subscriber depresses the flash hook twice. Subscribers can also execute consultation hold from the Communication Manager.</p>	
Distinctive Alert/Ringing	<p>This is a feature of the Priority Alert and Alternate Number capabilities. When setting the Priority Alert capability on, a distinctive ring will be given to those priority numbers. Likewise, when the Alternate Number feature is enabled, the user has the option of requesting a Distinctive Ringing when receiving a call from one of the Alternate Numbers.</p> <p>Distinctive ring is supported on the Cisco 7912, 7940, and 7960 IP phones. This feature is not supported for PSTN phones that utilize the Mediatix Analog Gateway nor is it supported on the Uniden 200 IP phone.</p>	
Do Not Disturb	<p>Allows subscribers to set their station as unavailable so that incoming calls are given a busy treatment. Subscribers have the option to activate and deactivate the service by dialing a feature code or configuring the service via the Subscriber Web Interface. A status indicator on the Communication Manager identifies whether this service is enabled.</p>	
Extension Dialing	<p>Enables subscribers to dial extensions via their Communication Manager or phone to call other Subscribers at their location.</p>	
Find Me – Personal	<p>This is a feature that used to be supported and is now available again. This service sequentially attempts up to five phone numbers (in addition to, optionally, the base location) to reach the user.</p> <p>Upon triggering the Sequential Ring service, the callers are played an announcement stating to hold while the system is attempting to reach the user. The callers are then provided with ring back and comfort announcements, in sequence.</p> <p>The service sequentially tries the configured numbers until an answer is received, at which point the call is connected as usual.</p> <p>If all numbers are tried without receiving an answer, the caller is redirected to an overflow destination like voice mail. There is also an option to allow the caller to press a key to skip the search process.</p>	

Flash Call Hold	<p>Enables subscribers to hold a call for any length of time by flashing the switch-hook on their phone and dialing the respective feature activation code. Parties are reconnected again when the switch-hook is flashed and the feature activation code is dialed again.</p> <p>To enable the feature subscribers flash the phone (press the flash button or press the hang up button once), dial the feature access code, and make the second call. The subscriber flashes the phone to toggle between the calls.</p>	
Inbound Caller ID	<p>Delivered information includes the caller's phone number. The information is delivered to the Subscriber Web Interface and the phone (if capable) only if the information is available and has not been blocked by the caller.</p> <p>Enables subscribers with Calling Line ID Blocking enabled to allow the delivery of their Calling Line ID on a specific call by entering the respective feature code (*65 default). Once the call is over, Calling Line ID Blocking is restored.</p> <p>Calling Party Name Delivery is available for On-Net calls to a SIP phone from another on-net SIP device.</p>	
IP Phone Support	<p>Subscribers can use SIP phones.</p> <p>Note: VoIP has certified select IP phones. Refer to The Vendor VoIP SIP Phones and Vendors for more information on the list of certified IP phones.</p>	
Last Number Redial	<p>Enables Subscribers to redial the last number they called by clicking the 'Redial' button on their Communication Manager or by dialing a feature code (e.g., *66).</p>	
LDAP Directory Integration	<p>The Lightweight Directory Access Protocol (LDAP) tab enables subscribers to click-to-dial a contact. It also allows subscribers to perform searches by contact name. This service may be integrated with an enterprise's own private directory.</p> <p>The LDAP database is queried by the Communication Manager to the customers Private LDAP Directory Server.</p>	
Loudspeaker Paging	<p>Enables subscribers to access an intercom paging system by dialing an extension at the location. The paging system is configured as a subscriber and inter-connected via a standard two-wire</p>	

	interface.	
Multi-Path Forwarding	There are no limitations on the number of simultaneous calls a subscriber can forward. Calls are specified for forwarding via the web portal interface.	
Outbound Caller ID	Originating location sends Billing Telephone Number (BTN) of caller. Currently, station level Automatic Number Identification (ANI) is not available.	
Outlook Integration	<p>This service enables subscribers to integrate their personal contacts in Microsoft Outlook with their Communication Manager. Using the Outlook Contacts tab in the Communication Manager, subscribers can perform a search of their personal Outlook contacts by name or company. Once the desired contact is located, subscribers may click-to-dial one of the contact's phone numbers or the subscriber may choose to display the contact's v-card by clicking their name.</p> <p>All the Outlook contact information is pulled directly from the subscriber's personal Outlook files. Essentially the Communication Manager, a java-based program, pulls all the appropriate information from the Subscriber's Microsoft Exchange server or personal computer (PC) each time they log onto Communication Manager. The Outlook contact info is automatically refreshed when the Communication Manager is accessed. Subscribers can also manually refresh it with a simple point and click on the Communication Manager screen. The Vendor suggests less than 1000 contacts in any single folder for optimal performance.</p> <p>VoIP supports Microsoft Outlook 2000 and 2002.</p> <p>The Communication Manager Outlook Integration is certified to work on Windows 98 Service Pack 2 and higher, Windows NT Service Pack 4 or higher, Windows 2000 Service Pack 1 or higher, and Windows XP.</p>	
Personalized Name Recording	<p>Name recording in conjunction with Auto Attendant. A .WAV file is recorded via phone and then uploaded via the Vendor Customer Center Personal Dashboard web screen.</p> <p>Users can use any application to record the .wav file. The format should be a CCITT u-Law, 8.000 kHz, 8 bit Mono .wav</p>	

	file.	
Phone List Group	Each subscriber added to the location is automatically added to this group list. Also included are the extensions for reaching the Auto Attendant(s), and Hunt Group(s), when applicable. Using the Common Phone List Feature, the administrator can add additional phone numbers to the Group List by either adding them individually via their web portal or by importing them from a file. This flexibility would allow the administrator to create a directory that lists all Subscribers in the entire enterprise. The list can not be edited by Subscribers but it can be searched.	
Phone List Personal	Each subscriber can add, delete, edit and re-order numbers in their Personal Phone List, which serves as a personal speed dial list. Subscribers can add multiple numbers to this list by uploading them from a flat file.	
Phone List Call Log	The call log is accessed through the Communication Manager and includes the most recent numbers registered for each category, as well as the respective call times and dates.	
Printable Group Directory	The business group and contact information is displayed in one of two formats: Summary or Detailed. The Group Directory is accessible from the Vendor Customer Center Administrator Dashboard Portal or via each Subscribers Communication Manager.	
Priority Alert/Ringing	<p>The subscriber sets the criteria (e.g., incoming calling number, time of day, and day of week) for determining which calls require priority notification via their The Vendor Customer Center Personal Dashboard web interface. Multiple criteria sets, or profiles, can be defined.</p> <p>The criteria for each Priority Alert entry can be a list of up to 12 phone numbers or digit patterns, a time of day range and specified days of the week. All criteria for an entry should be true for the phone to ring with a different tone (phone number and day of week and time of day).</p>	
Private Dial Plans	Many corporate customers depend on private dial plans to facilitate intra-enterprise communications. Company can assign their own private number plan between locations. VoIP can support private numbers up to 32 digits or can utilize an existing DAP-based dial plan.	
Remote Office	Enables subscribers to access and use their VoIP service from any end point, on-	

	<p>net or off-net (e.g., home office, mobile phone).</p> <p>Note: When using remote office, all feature codes should be entered using the Communication Manager rather than the home office or mobile phone.</p>	
Ring Splash	<p>Enables subscribers to have a short ring burst played on their phone when the following services are triggered: Call Forwarding Always, Call Forwarding Selective, and Do Not Disturb. Ring Splash can be enabled for each of these services individually and serves as a reminder that the respective service is active.</p>	
Selective Call Acceptance	<p>If an incoming call meets subscriber specified criteria, the call is allowed to complete to the subscriber. All other calls are blocked and the caller is informed that the subscriber does not wish to receive their call. The subscriber controls the service via the Subscriber Web Interface, which provides the ability to set the criteria sets for determining which calls are allowed to complete. A criteria set is based on incoming calling line identity, time of day, and day of week. Multiple criteria sets can be defined.</p> <p>Up to 12 phones numbers or digit patterns can be defined. All criteria should be met in order to be activated. If the calling party's ANI is not one of the numbers listed on the selective call acceptance list, the caller is played a standard recording, "The party you are trying to reach is not accepting calls at this time." Administrators can not modify the recording.</p> <p>Note: This feature is only available if the enterprise location is within the Vendor local footprint.</p>	
Selective Call Rejection	<p>If an incoming call meets subscriber specified criteria, the call is rejected. All other calls are accepted. The subscriber controls the service via the Subscriber Web Interface, which provides the ability to set the criteria sets for determining which calls require blocking. A criteria set is based on incoming calling line identity, time of day, and day of week. Multiple criteria sets can be defined.</p> <p>Up to 12 phones numbers or digit patterns can be defined. All criteria should be met in order to be activated. If the calling party's ANI is one of the numbers listed on the selective call</p>	

	<p>rejection list, the caller is played a standard recording, "The party you are trying to reach is not accepting calls at this time." Administrators can not modify the recording.</p> <p>Note: This feature is only available if the enterprise location is within the Vendor local footprint.</p>	
<p>Shared Call Appearance</p>	<p>All phones have the same extension on their phone and can view status of the line for all phones. Unlike alternate numbers which is a virtual termination, shared call appearance numbers should be physically provisioned on the subscribers phones.</p> <p>The first phone to be answered. If one of the phones is already hosting an active call under the Subscribers ID, incoming calls are delivered to the active phone and any outgoing calls from another phone using the same subscriber ID are blocked. Therefore if one of the users is on the Shared call Appearance extension the other users with the same extension will not be able to use the line. Example: Applications of this service include setting-up a second line for an executive assistant or in a secondary workspace (e.g., lab).</p> <p>Warning: Although lamp management is supported on the Polycom IP phones, Cisco and Uniden phones will not show the status of the call on their phone. They do not support lamp management. A common application for this feature is to have the same number on an executive and administrator phone. Due to the lamp management limitation, an admin currently has no way of knowing whether the executive is on their phone by viewing a lamp on their phone.</p>	
<p>Speed Dial</p>	<p>If required, customers can request to have up to 100 frequently called numbers enabled for speed dial. Entry of the two-digit code is preceded by a configurable prefix: 0-9, A-D, *, or # (default). Subscribers can program the numbers in their directory via the Speed Dial page in their The Vendor Customer Center Personal Dashboard web portal, or directly through their phone using the respective feature access code (*75 default).</p>	
<p>Telephony User Interface</p>	<p>Enables subscribers to call from any phone and modify their call forwarding features, their Communication Manager Express features, or their Auto Attendant greeting. Administrators may also use the</p>	

	Telephony User Interface to record Auto Attendant greetings remotely.	
Telephony User Interface – Calling	<p>This feature enhances the Communication Manager Telephony User Interface by allowing an authenticated user to originate calls.</p> <p>Once the Telephony User Interface authenticates the user, the user makes calls as if they were originated from their normal location. This means that services such as OCP, account/auth code and voice VPN will apply on the outgoing calls made from the Telephony User Interface. This also means that accounting records will be generated against the user's account.</p> <p>The user can make as many calls as desired. The user can either wait for the remote party to hang up, or hit an escape sequence to originate a new call from the Telephony User Interface.</p>	
Three-Way Calling	<p>To initiate a three-way call while engaged in a regular two-party call, the subscriber depresses the flash hook and dials the third party. Before or after the third party answers, the subscriber depresses the flash hook and forms a three-way call with the two parties. To drop the third party, the subscriber depresses the flash hook and is reconnected with the original party in a regular two party call. If the subscriber hangs up, all parties are released. Subscribers also have the ability to execute three-way calls using the Communication Manager.</p> <p>Note: With Flash Call Transfer, the conference does not end when the phone is replaced on the hook, since the callers are transferred together.</p>	
Voicemail	Network-based voicemail is provided. Voicemail accounts can be set up to provide company, per department and per subscriber accounts. Voicemail can be retrieved via phone, website or even e-mail.	

3.1.15.14 Network Features for Administrators

Feature	Description	
Account Codes	Enables the tracking of calls made outside of the location by prompting subscribers for an account code. With this service, codes are not validated (see Authorization Codes).	

	<p>Administrators manage their account codes via their The Vendor Customer Center Location Dashboard web portal.</p> <p>There are three types of access:</p> <ul style="list-style-type: none"> • Non-restricted Subscribers are exempted from providing an Account Code. • Restricted, Critical Usage Subscribers are automatically prompted for an Account Code whenever applicable. • Restricted, Optional Feature Access Code (FAC)-based Usage Subscribers are not prompted for an account code and instead (optionally) dial a FAC to specify an account code. If a subscriber does not enter a FAC, their call proceeds as usual. <p>Voluntary Account Code Provides the option for subscribers to enter an account code for a call by dialing a feature code before the call, or by flashing the switch-hook during a call and then dialing the feature code (e.g., to register an incoming call from a client).</p> <p>Code Length is 214 digits.</p>	
<p>Administrator Web Dashboard</p>	<p>Web portal that empowers a business administrator to provision services for subscribers, a location, or the entire enterprise.</p>	
<p>Attendant Console</p>	<p>The web-based Attendant Console enables a subscriber (e.g., receptionist) to monitor a configurable set of subscribers. All should be built under the same location as the Attendant. The Attendant Console graphically displays subscribers status (busy, idle, do not disturb), as well as detailed call information. The Attendant Console window is integrated with the Communication Manager, thereby enabling the attendant to perform functions such as click-to-transfer or click-to-dial.</p> <ul style="list-style-type: none"> • Filter Subscriber List Ability to filter the displayed list of monitored subscribers by name or title. • Jump to Name Enhanced ability to enter multiple letters of name to be displayed in console window via automatic 	

	<p>scrolling.</p> <ul style="list-style-type: none"> • Sort List In addition to sorting list by name, subscribers may also sort by title. • Configure Display Columns Flexibility to select which columns will appear on the monitored subscriber table, and in which order (e.g., name, title, number, extension, mobile, pager, status, e-mail). • View Call Information Option to view duration of monitored subscribers calls and name and number of parties that they are talking to. <p>Note: There is no limit to the number of subscribers an attendant console can monitor at a location. The number of concurrent calls an attendant can handle at any given time however is dictated by the number of call appearances their phone can support and by their geographic location.</p>	
<p>Authorization Codes</p>	<p>Prompts subscribers for an authorization code when making calls outside of the location. Calls will not be connected unless a valid code is entered. Administrators manage their authorization codes via their The Vendor Customer Center Enterprise Dashboard web portal. A subscriber can not have this service and the Account Codes service enabled at the same time.</p> <p>There are two types of access:</p> <ul style="list-style-type: none"> • Non-restricted – Subscribers are exempted from providing an Authorization Code. • Restricted – Subscribers are automatically prompted for an Authorization Code whenever applicable. <p>Code Length is 214 digits.</p>	
<p>Auto Attendant</p>	<p>The Auto Attendant serves as an automated receptionist that answers the phone and provides a personalized message to callers with options for connecting to the operator, dialing by name or extension, or connecting to up to six configurable extensions (e.g., 1 = Marketing, 2 = Sales, etc.). Configuration via the Vendor Customer Center Administrator Dashboard web interface also allows for hours of operation to be modified, with different options available for hours that the</p>	

	<p>company is open or closed.</p> <p>Each VoIP location can have its own Auto Attendant and using the transfer function, Auto Attendants can be nested together creating a seamless nationwide Auto Attendant. (e.g., enterprises main Auto Attendant is configured to seamlessly route to the Auto Attendant of a particular department or location).</p> <p>If using the dial by name or extension option, the subscribers listed will be those associated with the specific location Auto Attendant.</p> <p>The auto attendant can now be configured to allow callers to dial an</p>	
	<p>extension from the first level menu.</p> <p>In addition, administrators can now allow name dialing from a combined first name and last name in addition to the last name and first name list.</p>	
Auto Attendant – Enhanced Business Hours	The Auto Attendant can be set with multiple time ranges for example (9 a.m. - 11 a.m. and 1 p.m. - 2 p.m.) and support different hours on different days.	
Auto Attendant – Holiday Schedule	An administrator can create an unlimited number of Holiday schedules for their Auto Attendant. Up to a maximum of 20 dates or date ranges can be entered per schedule.	
Call Blast Hunt Group	Enables all of the phones in a hunt group to ring simultaneously when calls are received on a virtual number. The first phone to be answered is connected. This function is a routing capability of the Hunt Group feature.	
Calling Location ID Delivery	Provides the name and number of the location (or company) for outgoing calls from subscribers in the location, rather than providing the subscribers own name and number. The location number may be defined on a per subscriber basis.	
Calling Line ID Configuration	Enables the administrator to configure each of the displayed subscriber calling numbers. This information is visible to subscribers in their profiles as read-only.	
Calling Plan Incoming	The Incoming Calling Plan is configured via the Vendor Customer Center Location Dashboard web interface. In addition to being able to configure which types of calls each subscriber is restricted from receiving (e.g., intra-location), administrators may regulate	

	<p>Incoming calling by restricting specific digit patterns. This is done with the Digit String feature in the administrator web portal.</p> <p>If a profile has not been configured for a particular subscriber, the default set of incoming call privileges for the location is applied. Use of the Custom Check Box on the administrator screen allows that subscriber to use their own call settings which can override location restrictions.</p> <p>The Incoming Calling Plan also enables administrators to reject the following types of incoming calls:</p> <ul style="list-style-type: none"> • Collect calls • Calls from within the location • Calls from outside the location <p>Note: Calls can not be blocked by NPA-NXX.</p>	
Calling Plan Outgoing	<p>The Outgoing Calling Plan is configured via the Vendor Customer Center Administrator Dashboard web interface. In addition to being able to configure which types of calls each subscriber is restricted from making, administrators may regulate outgoing calling by restricting specific digit patterns. This is done with the Digit String feature in Administrator web portal.</p> <p>If a profile has not been configured for a particular subscriber, the default set of outgoing call privileges for the location is applied. Use of the Custom Check Box allows that subscriber to have separate call settings which can override the location level restrictions.</p>	
Calling Plan Outgoing Enhanced	<p>In addition to blocking or allowing given call types and digit strings, administrators have the following options for configuring the outgoing calling profile of their location and individual subscribers:</p> <ul style="list-style-type: none"> • Authorization Codes Selected subscribers can be prompted for an authorization code to allow specified call types or digit strings. Administrators can pre-configure one or multiple authorization codes to be entered by subscribers. Use of this feature within the Enhanced Outgoing Calling Plan takes precedence over 	

	<p>the standalone Authorization Code service.</p> <ul style="list-style-type: none"> • Call Transfer Specified outgoing call types and digit strings can be automatically transferred to one of up to three transfer destinations that Administrators can pre-configure. For example, international calls made from a conference room may be transferred to a company operator who will validate the Subscribers identity and their purpose for making an international call. <p>Existing configurations are retained when the Enhanced Outgoing Calling plan is assigned to replace the basic version of the service.</p> <p>Provides Subscribers with the option to enter a Sustained Authorization Code to unlock calling from their phone. When the feature is enabled, subscribers will not be prompted for an authorization code every time they make a call that requires an authorization code, as defined by the Enhanced Operations Channel (EOCP). Separate feature access codes are used to turn this feature on and off. Note: Custom Subscriber may be selected in the Dashboard.</p>	
<p>Calling Plan Forwarded/Transferred</p>	<p>Enables administrators to prevent specified subscribers from forwarding or transferring calls to certain types of numbers, such as long distance, toll, or premium numbers. Calling plans are configured via the Vendor Customer Center Administrator Dashboard web interface. If a profile has not been configured for a particular subscriber, the default set of incoming call privileges for the location is applied.</p>	
<p>Configurable Extension Dialing</p>	<p>The extensions can be of any length (2 to 6 digits) as defined by the administrator and dialed via the Administrator Web Interface or by phone. All extensions within a location may be of the same length.</p>	
<p>Configurable Feature Codes</p>	<p>Provides each location administrator with the option to specify the feature codes (a.k.a., star codes) associated with their services (e.g., Last Number Redial, Call Return) via the Vendor Customer Center Administrator Dashboard web portal. Subscribers can see, but not edit, the star code associated with each service at any time</p>	

	<p>by referencing their The Vendor Customer Center Personal Dashboard web portal.</p> <p>Enables Administrators to configure two different feature access codes for the same service. For example, *69 and #81 could both be used to enable Call Return.</p> <p>Note: Feature access code can be two to five characters long; consist of digits (0-9) and the special characters * and #. The special characters can occur only in the first two positions; and the last character may be a digit.</p>	
Configurable Feature Code Prefix	Enables the administrator to define up to two different prefixes to precede their feature codes. Each prefix may include 1-2 characters, with the default being a single star (*).	
Configurable Time Zones	A default time zone is specified for each location. The respective time zone is used for all services requiring date/time stamps, such as Auto Attendant and Selective Call Forwarding.	
Device Inventory	Enables administrators to inventory their equipment including premise gateways and IP phones via their The Vendor Customer Center Administrator Dashboard web interface. Devices may be easily added, deleted and modified. In addition, administrators can assign subscribers directly to a device and/or a port on a device.	
E911 Support Enhancement	Enables routing of emergency calls to the correct tandem switch based on the caller's phone number. The system ignores subscriber disconnects and disallows features to be used when an emergency number (i.e., 911) is dialed.	
Hunt Groups	<p>Hunt Groups allow users to be included in a specified hunt group to handle incoming calls received by an assigned Hunt Group phone number. This is a virtual number not a specific subscriber telephone number.</p> <p>Administrators can choose from any of the following hunt schemes, each of which rings the specified phones in a different manner:</p> <ul style="list-style-type: none"> • Circular sends calls in a fixed order. The call is sent to the first available person on the list, beginning where the last call left off. The Circular option tries 	

the agent after the last agent to take a call. The search continues including looping around the list until it reaches the agent it started with.

- Regular sends calls to users in the order listed by an administrator. Incoming calls go to the first available person on the list, always starting with the first person on the list.
- Call Blast all of the users in the group simultaneously; the first user to pick up the ringing phone is connected.
- With Uniform, as a call is completed, the user moves to the bottom of the call queue in a shuffling fashion. The next incoming call goes to the user who has been idle for the longest. If a user receives a call that was not directed to them through the hunt group, the call will not be included in the receiving order for Uniform calls.
- No Answer Timeout enables calls that have been distributed to a phone, but not answered in a specific number of rings, to be redirected to the next available phone. If all idle phones have been visited once without answer, there are two options for handling the call: forward call to an external number, or give the call a **Temporarily Unavailable** treatment, which can trigger a service such as voicemail.

Note: There is no limit to the number of users that can be included in a hunt group.

Note: Call forwarding features will not apply to calls within the hunt group. Likewise, incoming calls to the hunt group are never forwarded to the voicemail service assigned to a member of the hunt group. Remote Office features, however can be used in conjunction with a Hunt Group routing.

<p>Music on Hold</p>	<p>Enables administrators to upload an audio file onto the system to be played to parties on hold.</p> <p>Users can use any application to record the .wav file. The format should be a CCITT u-Law, 8.000 kHz, 8 bit Mono .WAV file. There is a 10 minute maximum threshold or approximately (4.7 meg).</p>	
<p>PS/ALI</p>	<p>Private Switch/Automatic Location Identification (PS/ALI) is an advanced form of E-911 service. It gives customers the ability to deliver station-level Automatic Number Identification (ANI) and exact location information to the Public Safety Answering Point (PSAP).</p> <p>For more details, refer to Emergency (911) Service with The Vendor VoIP.</p>	
<p>Series Completion</p>	<p>The Series Completion service can be assigned to a selected series of lines to forward calls on a busy condition. It is a form of hunting in which the next line in the series completion group is tried in a prearranged order, without any limit on the number of sequential forwards. Unlike hunt group functionality, the lead number for a series completion is associated with a specific subscriber. The call is only forwarded if the subscriber's line is busy. If the user's line is not busy then the network will route the call according to the rules that have been configured for a "no answer" condition.</p> <p>This service is used to support Key System functionality. Key systems typically ring all available lines in a specified order for incoming calls, regardless of the number dialed to reach the company. For example, when calling a tech support hotline, the subscriber dials (800) 555-HELP. That number attempts to ring line 1 of company. If line 1 is busy, it will attempt to ring line 2. If line 2 is busy, and so on. If all lines are busy, the call can be sent to or another assigned service of the series completion group. Similarly, if all lines or subscribers of this company were assigned to a Series Completion group, The Vendor VoIP acts just like a key system.</p>	

3.1.15.15 Management

Feature	Description	
Call reporting details via web screen	Billing reports can be generated daily, weekly, monthly for call detail and printable via website.	
Feature Reporting	Feature reports can be generated for Accounting and Authorization Code usage.	
Customer-managed Routers	The Vendor Business will design and implement service. Customer retains control of CPE management.	
<ul style="list-style-type: none"> Administrative site management via web screen 	<p>Via the Vendor Customer Center, VoIP provides administrator accounts on a central website for setting up default feature classes for a range of users.</p> <p>Supported Browsers</p> <ul style="list-style-type: none"> Microsoft Internet Explorer 5.0 or higher with the Microsoft Java VM installed. The Vendor Business recommends 128 encryption for Secure Socket Layer (SSL) support on the browser. Other versions of incoming exclusion (IE) or any version of Netscape Navigator may be compatible with the Communication Manager, but have not been tested. <p>Recommended Screen Resolution</p> <p>1024x768 resolution, 16-bit color depth.</p>	
Multi-language Support	Screens can be displayed in multiple languages.	
<ul style="list-style-type: none"> User self-provisioning and management via web screen 	<p>Via the Vendor Customer Center, VoIP provides web access for users to set up their phones and administer features and calling treatments.</p> <p>Supported Browsers</p> <ul style="list-style-type: none"> Microsoft Internet Explorer 5.0 or higher with the Microsoft Java VM installed. The Vendor Business recommends 128 encryption for SSL support on the browser. 	

	<ul style="list-style-type: none"> Other versions of IE or any version of Netscape Navigator may be compatible with the Communication Manager, but have not been tested. <p>Recommended Screen Resolution 1024x768 resolution, 16-bit color depth.</p>	
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3.1.15.16 Security

Feature	Description	
Authentication	Validates that user names and passwords to ensure only trusted users are on the network. For SIP phones and analog interfaces, authentication is performed by SIP digest user authentication. For a digital PBX with a router/gateway, authentication is performed via IP Security Authentication Header Protocol (IP Sec AH).	

3.1.15.17 Signaling Support

Feature	Description	
SIP	Session Initiation Protocol, an open standard and the leading VoIP protocol.	

3.1.15.18 SIP Phone Features

Feature	Description	
Do Not Disturb	SIP phones support Do Not Disturb.	
Hold	SIP phones allow users to place calls on hold.	
Consultation Hold	The user may place a call on hold and originate another call with privacy.	
Three-Way Conferencing	Ability to conference in a third party. Note: Compression will not be supported with this type of conferencing. Instead the call will be processed using the G.711 codec.	
Multi-line SIP Phones	SIP phones offer a minimum of two lines, with Cisco phones supporting up to six lines.	

DTMF Digit Support	Dual Tone Multi-Frequency refers to push button or touch-tone dialing.	
Phone Portability	IP phones may be plugged into any The Vendor VoIP location.	
XML Application Support	Can write specialized Extensible Markup Language (XML) applications to run on the Cisco phone.	
Call Log	Displays a log of placed, received, and missed calls.	
Last Number Dialed	Speed dials the last number dialed.	

3.1.15.19 Disaster Recovery

Feature	Description	
Busy Out Monitoring	<p>Cisco service within their Inter-network Operating System (IOS) that will continuously monitor a locally connected wide area network (WAN) interface in order to control a locally connected channel associated signaling (CAS) or Primary Rate Interface (PRI).</p> <p>If the WAN T1 alarms, then the router will place the CAS or PRI interfaces into a similar alarm state, allowing the PBX to route around to a more PSTN optimal path.</p> <p>Likewise when the WAN T1 comes up the router will place the CAS or PRI interfaces into an up state and calls will be completed over the VoIP network.</p>	
Bypass Port	<p>One default bypass port available to the PSTN in the event of a power outage or network outage condition.</p> <p>The Medatrix bypass port will be activated if:</p> <ul style="list-style-type: none"> • The unit is not able to register with the SIP proxy (including the case where the Registrar is not reachable or responding). • The local area network (LAN) link is not up; e.g., LAN cable disconnected for example. • Power failure. <p>Following one of the above conditions, the unit will try to register every two minutes or as soon as the local area network (LAN) cable is reconnected.</p>	

	<p>When the units are able to re-register, the bypass will be deactivated after 10 seconds (if a call is not already in progress).</p>	
<p>Internet T1 Access – Shadow T1/Shadow T3</p>	<p>Internet T1/T3 Shadow is a redundant service option that provides an automatic back-up connection in the event of primary T1/T3 failure.</p> <p>A second T1/T3 is provisioned from customer premises to The Vendor IP backbone and Border Gateway Protocol (BGP) MEDs are used to reroute traffic in an outage situation.</p> <p>Customers may have their primary circuit with The Vendor Business. The T1/T3 Shadow circuit may be the same bandwidth as primary connection.</p>	
<p>Internet T1 Access – Diverse and Double</p>	<p>T1 Diverse is two T1s provisioned to different The Vendor-owned hubs. T1 Double is two T1s provisioned to the same The Vendor-owned hub and the same gateway router.</p> <p>Most customers route voice traffic to an IP/PSTN gateway which has one IP address. When a router has multiple outbound paths to the same destination IP address (as in T1 Diverse and Double) it selects only one of those paths for that destination.</p> <p>Once the router decides which T1 to use, all the traffic destined for the VoIP gateways will choose that same T1.</p> <p>The same situation exists for traffic inbound to a customer. If substantially all of a customer's traffic is destined for one IP address, as when the customer has a firewall, the Vendor edge router will select one path and not use the other T1. Customer designs should take this into account.</p> <p>If the customer has predominately off-net traffic, which means that most of their traffic is going to single IP address, they will not receive a load-sharing benefit from T1 Diverse or Double. On-net traffic destined for various IP addresses, however, can router over either T1.</p>	

3.1.15.20 IP T1/PRI Trunking Generic

IP T1/PRI is designed for small-size Agencies & customers that simply need converged voice and data access and basic Class 5 calling features. This service works with existing IP Key/PBX systems, thereby eliminating the need to heavily invest in extra equipment. With IP T1, there is no need for equipment changeover or disruption to services. Customers will not need to retrain employees on any of the calling features or functions, and implementation is transparent to the end-user.

The Vendor may describe, in detail, their integrated Voice and Data T-1 on the MPLS, if this offering isn't available, describe what is available. (For instance the State requires IP trunking using G.729 codec.)

- The benefits of IP T1 should include:
 - One converged network for voice and data, reduced from two separate voice and data networks, means lowers costs.
 - A minimum of 40 simultaneous calls
 - All the features of a conventional PRI, (like those used commonly from the DAIN contract)
 - One network for voice and data also makes network management easier.
 - Unlimited local and on-net calling with a bundle of off-net domestic long distance minutes within the 50 U.S. states offers cost savings.

3.1.15.21 IP Trunking: Cisco Specific

IP Trunking is designed for large customers with 200 or more employees, which have already invested in a Cisco CallManager 4.1.3 IP PBX. With IP Trunking, the customer's IP PBX is connected directly to the carrier's IP backbone, eliminating the need for the customer to purchase complex and costly Time Division Multiplexing (TDM) enterprise gateway customer premises equipment (CPE). IP Trunking provides converged access and the essential features that large customers require.

This offering's target market includes customers that:

- Have 200 to 1,000, or more employees
- Do not want to retrain employees on any of the calling features or functions; all the Cisco CallManager features are retained
- Do not want to invest in costly TDM gateway equipment infrastructure or desktop equipment
- Prefer to avoid equipment changeover or disruption to services
- Want the cost savings realized through converged access

3.1.15.22 IP Trunking Ethernet, (over DS-3 or Alternate means)

- Requires handoff to IP enabled PBX or Pure IP softswitch via Ethernet 10Meg
- Should accommodate up to 400 simultaneous calls
- Should have all traditional PRI DAIN type features.

3.1.15.23 QoS and DiffServ Signaling: IP by itself is simply a best-effort service, not

sufficient enough to provide the strict delay, jitter, and bandwidth guarantees required for voice over IP (VoIP) and other real-time traffic. WVOT requires that the proposed solution support a standards-based QoS or DiffServ aware TE mechanism when making forwarding decisions for passing VoIP traffic through tunnels. Confirm Vendor's compliance with this mandatory and describe the method for QoS or DiffServ TE signaling for VoIP traffic. (See real-time QoS in 3.1.7.3)

3.1.16 Statewide Remote User Access (Dial-up, DSL, et. al.)

3.1.16.1 Statewide Dial-up WVOT desires statewide dial-up access, DSL access, cable access, WiFi access, to support the development of a secure, highly functional and highly stable remote access solution for telecommuters, small remote offices and after-hours business workers.

3.1.16.2 Dial-up Access: WVOT desires that the Service Provider provide cost-effective access to the MPLS VPN network for remote users, field employees, travelers on temporary duty, temporary work sites, sites with outages, and home tele-workers without high speed connections. Such dial-up should be 56K or better and include v.90 and v.92 support. This dial-up capability could be provided via publicly available ISP service through the State's existing ISP WVNET, or through a private Vendor MPLS remote user network, whichever is most cost-effective. Describe Vendor's approach for providing cost-effective remote user access to the MPLS VPN network.

3.1.16.3 Remote Local Access: WVOT desires that remote users have the option of connecting to the MPLS VPN network either through a local dial number or via a toll-free access number. Describe Vendor's strategy to controlling costs by directing users to local numbers rather than more expensive 800 numbers.

3.1.16.4 Capacity: The number of concurrent dial-up connections should be selectable, both by local dial numbers and toll-free access. Also, in time of an emergency, the need for remote access may dramatically increase. Describe Vendor's approach to appropriately sizing the capacity of dial-up network access to limit busy signals as well as providing additional local and toll-free numbers as necessary.

3.1.16.5 Availability: WVOT desires that remote user access to the MPLS VPN be readily available. Describe Vendor's approach to ensuring the Availability of remote user access.

3.1.16.6 Idle Time Disconnect: WVOT desires that the Vendor has an idle time disconnect feature. WVOT desires the ability to adjust the default period of time in which a statewide dial-up call is dropped due to inactivity. Describe how the Vendor will provide idle time disconnect capability. Describe how the Vendor's solution could allow WVOT to adjust the idle time disconnect interval.

3.1.17 Access Circuits

3.1.17.1 Access Circuit Services: The local access connection between the customer premise equipment and the Service Provider's Point of Presence (POP) should use generally and commercially available transport services. Preference should be given to open, secure, scalable, industry-standards-based, packeted services, such

as Ethernet in 10 Meg/100 Meg and 1 Gig (both redundant and non-redundant), SONET, Frame Relay, ATM, Clear channel T-1 and DS-3 circuits and others, providing end-to-end QoS capable of transporting voice, video, and data applications within a converged media stream. TDM-based transport services, such as T1 digital carrier, ISDN, DSL, etc., shall be acceptable where dictated by the business needs (e.g. cost, SLA) of the agencies. (The State desires that the apparent successful Vendor leverage access facilities such as Ethernet over Frame Relay and ATM.)

3.1.17.1 User Perspective/Mesh Topology: The Provider should offer the option for meshed links, which will enable agencies to build redundancy in the WAN through a Mesh Topology.

3.1.17.2 The State cannot pay for dual service therefore it is a requirement that the winning vendor install and test replacement Access circuits of any type at no charge until the legacy Data 05 or other service from any legacy Vendor is terminated. The services should meet all applicable industry standards pertaining to information security, and vendor should be willing to accommodate and comply with WVOT Enterprise Information Security Policy, as it evolves over time. The vendor is not obligated to provide the service at no charge after 30 days from Access Circuit installation. **Exceptions to this are K-12 and the Library Commission which are subject to E-Rate and will be converted last. They will require ninety (90) days without double-billing.**

3.1.17.3 Access Circuits: WVOT desires that the Service Provider supply the most economical physical Access Circuits that meet the service level and bandwidth requirements of the individual agencies. Describe the strategy for providing the most economical accessibility while meeting Service Level Agreements (SLA).

3.1.17.4 Availability: WVOT desires the ability to choose Access Circuit Availability per the business requirements of each service address. Use the pricing spreadsheet located in Appendix B which describes required access circuits, services, and/or service bundles. List any and all access types not on the required lists that are available and provide the pricing for said additional options in Attachment C, clearly labeled and referring back to this section. The State will require for all Access Circuit types the 5 previously mentioned CoS categories, except where a certain access type is "Best Effort only". (e.g. dial up, cable modem, DSL, and any internet VPN access are "Best Effort" only if the four (4) FCC QoS Requirements are not applicable.) Specifics for each FCC category will be stated in the SLA with its accompanying bandwidth, Availability, Latency, Jitter, MTTR.

3.1.17.5 Bandwidth: The Vendor should specify the various types of access services offered, including the bandwidth increments and ranges. Does Vendor's offering enable the customer to specify their bandwidth requirement? If so, clearly define the various types of access services offered including the bandwidth increments and ranges.

3.1.17.6 Bandwidth on Demand: WVOT desires the ability to provide its customers with additional capacity on an Access Circuit, as necessary, to accommodate increases in traffic, such as a videoconference, or other special requirements. Describe the approach for providing this capability.

3.1.17.7 Ability to Add Wireless Access and Satellite Circuits: To fully support a mobile workforce and provide alternate connectivity where traditional land based circuits are not available, WVOT desires that the MPLS VPN network be able to add Wireless Access Circuits. This is not a request for the Vendor to build out a statewide wireless network but have the capability to connect wireless access circuits. List the types of wireless access circuits that the proposed solution (such as IEEE 802.11g, 802.16, Wi-Max, WIFI, VSAT, etc.) would support. Describe the security measures required to connect with the wireless access circuits.

3.1.17.8 Third Party Circuits within the current and future network infrastructure: There are circuits that are provided by business associates and/or exempt agencies, to provide specialty services to WVOT and State agencies. Describe Vendor's approach for providing connectivity for these third party circuits, within the planned MPLS VPN. Describe in detail, the charges the Vendor is offering for third parties to connect to the MPLS peripheral Edge Router, Ethernet switch, or other Vendor-owned device for each access type, QoS, and port size, as listed in Appendix B. These include: ADSL to 1 GB switched Ethernet redundant real-time access circuits.

3.1.17.9 The Vendor should provide and hold firm this third-party port connection charges. These charges can, and should, be based on the same parameters the State's Access Circuits are charged, however, without the transport component. If a third party connects directly into the State of WV's core network or peripheral data center, the State will charge said third party, or State Agency, a similar fee to be retained by the State of WV. NOTE: The State acknowledges that the vendor cannot be responsible for third party vendors providing access to the MPLS.

3.1.18 Alternate Access

WVOT desires alternate access at some service addresses to provide for business continuity. These service addresses have application needs that dictate high levels of redundancy, fault tolerance, and disaster recovery. Describe Vendor's cost-effective approach to providing for high Availability at these sites.

3.1.19 Disaster Recovery

3.1.19.1 Loss of Data Center: In the event of a loss of the State's Data Center, Access Circuits should be provisioned in a manner that will allow WVOT or the Service Provider to swing circuits to an alternate Data Center. Describe Vendor's strategy for providing connectivity in such an emergency. This includes provision for the rapid establishment or upgrade of Access Circuits to one or more alternate data centers, rapid establishment of temporary PVCs to the alternate site and rapid label propagation in support of the new PVCs.

3.1.19.2 Agency Service Address: In the event of the loss of an agency service address of WVOT or one of its customers, the Service Provider should be able to reestablish connectivity to existing site and rapidly provision access connectivity to an alternate site. Re-provisioning an existing site may include either site mappings alone, or may include site mappings, physical transport, and CPE. Describe Vendor's strategy for providing connectivity to an alternate site in case of such an emergency. Include

timelines, provisions for the rapid establishment or upgrade of Access Circuits to the alternate site, rapid establishment of temporary PVCs, and rapid label propagation in support of the new PVCs for all classes of service.

3.1.20 Internet Access

3.1.20.1 The State of West Virginia's current ISP provides Internet access on 4 OC-3s in the North, and 4 OC-3s in the South, which feed up to 1.2GB worth of user endpoints via these two POPs, via the current Network described on page 26. The State of West Virginia desires that the Vendor proposes potentially multiple alternative(s) and ideally superior designs in terms of naturally redundant Internet connectivity and Internet speed and performance for the dollar spent here in this section. Please remember to provide pricing for any and ALL "Optional Internet/ISP connectivity" in the Optional pricing Appendix E. Describe here what makes the Vendor/Carrier a Tier 1 ISP Provider? Does the carrier have, at a minimum, an OC-48 backbone reaching both US coasts Metropolitan Area Ethernet POPS? Has the carrier's backbone been in existence for at least six months? Does the carrier own at least 80% of the fiber facilities on its Internet backbone? If not, why is the Vendor described as a Tier 1 ISP Provider?

3.1.20.2 Alternate Internet Access: In order to provide protection against failures and emergencies, and to ensure business continuity, WVOT desires options for a second, alternate connection, to the Internet via a separate Internet Service Provider. Identify the provider and describe the approach. The MPLS carrier is encouraged to do this at the PE router in Charleston thus eliminating the requirement for the second OC-3 to the Internet carrier at the Capitol complex vault. The MPLS Vendor is encouraged to provide any and all alternate Internet configurations that will result in no degradation of Internet service or security yet will reduce long-term costs and subsequently will reduce the amount billed back to each Agency for Internet service. Please provide as much detail as possible and provide how the vendor would transition to any proposed alternatives. The Vendor needs to keep in mind that K-12 and the State Library Commission have filters in place at WVNET and the Vault and these Agencies will need to maintain control over said Filtering and other aspects of their VRF(s) or individual VPN(s).

3.1.20.3 It is highly desirable that the State of West Virginia contract include options for connectivity of the MPLS network to the evolving Internet2 backbone as it evolves from Abilene to the replacement on 2007-2008. It is understood that organizations and agencies within the State may need to secure membership in Internet 2, to take advantage of such a connection.

3.1.20.4 It is Highly Desirable that the State of West Virginia contract includes options for connectivity of the MPLS network backbone to multiple Tier 1 National Commodity ISPs, and includes options for service redundancy, diverse paths, load balancing and bandwidth optimization. Please describe, in detail, how the Vendor's solution would address this desirable.

3.1.20.5 It is Highly Desirable that the State of West Virginia contract with a Vendor who facilitates peering arrangements with multiple in-state broadband ISPs. This desirable is in an effort to promote West Virginia ISP services, and facilitate efficient and optimal utilization of commodity Internet bandwidth into, and out of, the state.

3.1.21 Universal Services Fund – Network Configuration

3.1.21.1 Support for Universal Services Fund: The Universal Services Fund (USF) provides communities across the country with affordable telecommunication services. The Universal Services Administrative Company (USAC) manages the fund. The Schools and Libraries Universal Service Support Mechanism (E-Rate) provides discounts to assist most schools and libraries in the United States in obtaining affordable telecommunications and Internet access. Rural Health Care is a universal service support mechanism that provides reduced rates to rural Health Care Providers (HCPs) for telecommunications services related to the use of telemedicine & tele-health.

3.1.21.2 USAC Compliance: The Service Provider should provide an MPLS network that will allow the Schools and Libraries in West Virginia to qualify for Universal Services Administrative Company (USAC) Funds. The network should also allow the Rural Health Care Providers in West Virginia to qualify for Universal Services Administrative Company (USAC).

- ❖ Describe how the proposed solution complies with the Universal Services Fund requirements for E-rate and Rural Health Care.
- ❖ Provide Vendor's Service Provider Identification Number (SPIN).
- ❖ Provide evidence that the Vendor is an Eligible Telecommunications Services Provider, as defined by the State of West Virginia.
- ❖ Confirm that Vendor offers E-Rate eligible entities discount billing in accordance with FCC guidelines.

3.1.21.3 Universal Services Fund – Filings: The Service Provider should comply with current and future Universal Service Fund submission requirements. (See <http://www.universalservice.org>).

3.1.22 Network Security

3.1.22.1 The physical security of network components (such as buildings, power services, continuity of operations, etc.) and the security of the information that will traverse the network are of prime concern and should be defined as part of this proposal. Redundant infrastructure components within the core network will be valued highly and should be highlighted within the proposals. Agreement to comply with WVOT and other State policies concerning Information Security and Physical Security, both existing and future, will be a requirement for an award, and continuation of any contract throughout its designated term.

3.1.22.2 Compliance with WVOT Enterprise Information Security Policies: The Service Provider should comply with all WVOT Enterprise Information Security Policy with respect to the network, personnel, information, facilities and applications as they relate to this RFP. Describe the security infrastructure provided with the proposed MPLS, and demonstrate how it addresses WVOT's Enterprise Information Security needs. www.wvgot.org.

3.1.22.3 Support WVOT Information Security: Describe how Vendor will work with the WVOT to address security threats. This includes threat mitigation and event correlation and access to tools and reports to aid WVOT in monitoring and tracing security threats. This also includes providing support for forensic investigation.

3.1.22.4 Intrusion Controls: The vendor should provide all requested

support/cooperation to the WVOT in the implementation of any intrusion control technologies. Vendor should state their compliance with this desirable. It is the desire of the Information Security Office that during the design and planning phase of an enhanced Intrusion Controls (detection and prevention) architecture for our technical environment, the successful vendor would provide any available insight into the planning process. This might take the form of a briefing, a Q and A Session, an introduction to other vendor customers who have implemented intrusion controls into an MPLS environment, etc. We do not envision this being a substantial effort on the vendor's part, and we consider it to be a voluntary exercise. The goal is to be able to tap into any well of vendor or customer expertise that may have been developed through past experiences that the vendor has had prior to working with the State of WV.

3.2 MPLS VPN Management and Monitoring

3.2.1 Evolving and Emerging Technologies: WVOT desires that the Service Provider have a method for incorporating evolving and emerging technologies. A Technology Plan is one method of achieving this goal. Describe how evolving and emerging technologies are addressed and the approach taken to incorporate changes into the overall MPLS VPN architecture.

3.2.2 Ongoing Technology Refresh

3.2.2.1 A paramount concern of the MPLS VPN initiative is to obtain a Service Provider committed to providing services under a philosophy of rapidly accommodating change. This is commonly referred to as "future proofing." WVOT envisions the MPLS VPN architecture to be completed six months after the award. The DATA 05 conversion is to be completed by 12/08. It is desired that VoIP be made available as a service offering approximately three months after the initial MPLS VPN architecture is established and continue migration from the existing Centrex/DAIN onto the MPLS IP Voice throughout the life of the MPLS contract and renewals. Please respond with vendor's ability to meet these timelines.

3.2.2.2 Technology Refresh: Describe how technology refresh will be addressed in support of the MPLS VPN for data, VoIP, multimedia services and CPE managed by the Service Provider (Hosted IP Voice and Video services or monitoring, encryption, filtering traffic management and any additional optional services): Vendors should take care to make sure and address the pricing of any and all quoted options in Appendix E unless requested specifically in the pricing sheets (Appendix B). The vendor should include hardware upgrades or replacement, modifications to CPE IOS as a service wherein the CPE is owned and maintained by the MPLS vendor except where the Agency has procured their own Voice Data and or Video CPE. In such cases the Agency or the WVOT will be responsible for maintaining said CPE from the Vendor from which it was procured. In some cases this may be the same Vendor that supplies the MPLS, but will be in no way tied to the MPLS requirements or SLA unless the CPE is provided as a turnkey service: i.e. Hosted Voice solutions. The MPLS vendor may be requested at quoted billable rates in the optional pricing section to provide modifications to routers and switches that support the MPLS VPN. Identify those components that will be updated and reconfigured prior to the initial deployment of MPLS VPN service in order to accommodate technology refresh.

3.2.2.3 Security Technology Refresh: WVOT desires that the Service Provider manage and operate within manufacturers' security requirements across the entire MPLS VPN for the life of the contract. Describe management of the MPLS VPN from a security refresh standpoint.

3.2.3 Operational Planning

Operational Planning: The Service Provider should facilitate a forum that includes WVOT when planning for routine maintenance outages, CPE upgrades, changes to MPLS VPN Access Circuits, required technology refreshes and intrusive troubleshooting and testing. Describe procedures used for each and how WVOT will be incorporated into the planning process. Address the planning process for proactive and preventive maintenance programs.

3.2.4 Maintenance Requirements

3.2.4.1 The successful vendor shall be responsible for the on-going maintenance of the MPLS Core and its Peripheral Edge Routers, Regional or Central Office based Ethernet Switches and all other Peripheral Edge devices as well as all circuits and services such as Hosted Voice Services, even those that may utilize a third-party to provide the "last mile". The successful Vendor will also be responsible for maintaining adequate bandwidth on the MPLS core and Peripheral Edges as well as the ability to increase circuit size and CoS in all regions to ensure adequate potential for rapid expansion as described in the SLA.

3.2.4.2 Scheduled maintenance should occur on an advance mutually agreed upon time table that has minimal to nominal impact to the existing agency or entity . The vendor should state their maintenance window (e.g. 2a.m. to 5:30a.m.)

3.2.4.3 Vendor should provide at least ten (10) calendar days advance notification, in writing (e-mail), to The Office of Technology's Help Desk and the Telecom Customer Service and Billing, (TCS&B), designee and or exempt Agency designee as assigned by the WVOT's TCS&B team's designee, of any scheduled maintenance affecting the State's private MPLS. The WVOT will then disseminate this information internally.

3.2.4.4 In the event of required emergency maintenance, affecting the MPLS Network, the vendor shall inform both the Help desk and appropriate WVOT TCS&B designee OR, a WVOT-authorized Agency designee, and receive verbal approval prior to working on the circuits or any infrastructure that may affect the traffic flowing across the MPLS and any and all circuits VPN(s), VRF(s) etc. State the vendor's compliance with the above requirements, addressing each individually.

3.2.5 Maintenance for Service Provider-Managed CPE

3.2.5.1 **Maintenance for Service Provider-Managed CPE:** Describe maintenance policies and procedures regarding CPE that will be used in the delivery of MPLS VPN service to WVOT. Describe the preventive maintenance routines, equipment swap-outs, the remove-repair-return procedures, and how activities are coordinated in advance with the agencies. Identify available service levels and terms of coverage. This service

provider managed CPE is optional and in many cases the Agency or the WVOT will perform these tasks, however as stated earlier in cases where the service involves CPE, such as hosted Video services or Hosted IP Centrex the Vendor will be responsible for said CPE and should state compliance with this requirement.

3.2.5.2 Note: Particular items in Appendix B require pricing for both Provider-Managed and Agency-Managed CPE options. It is critical to your Pricing section score to complete ALL of Appendix B with straightforward and specific answers. Appendix D is expected to be concise as well and directly reference the technical section of the RFP where the optional service, with or without CPE, was initially addressed.

3.2.6 Maintenance for Agency-Managed CPE

Maintenance for Agency-Managed CPE: This will be the responsibility of the Agency or the WVOT unless specifically arranged in a separate contract with a third party or the winning MPLS service provider.

3.2.7 Configuration Management

3.2.7.1 Configuration Management: Describe any system or application proposed for Configuration Management of Service Provider-Managed CPE configurations. Describe how the systems and applications operate. Describe procedures and methodology associated with configuration management.

3.2.7.2 Configuration Records: Pursuant to the requirements of West Virginia State Code §5A-6-1, §5A-6-2, §5A-6-4, §5A-6-5, §5A-6-6, §5A-6-8, §5A-6-4a, §5A-6-4b, §5A-6-4-c and §5A-7-4 (Senate Bill 653), WVOT requires that current and accurate configuration records be kept for MPLS VPN access circuits and optionally managed CPE by the Service Provider at all locations. Describe Vendor's approach to maintaining these records and providing access to these records to WVOT. All configuration records must be kept in a secure environment, with access to the current and past configurations readily available via database access or via secure online access. Information must also be provided in hard copy upon request.

3.2.7.3 Archiving Configuration Information: WVOT desires that all CPE configurations be archived on a regular basis. Describe the process and frequency proposed. Describe the policies affecting the retention periods and the depth of versions kept to include restoration testing. Clearly distinguish between transport and CPE configurations.

3.2.7.4 Security Configuration Management: Describe methodology and procedures to ensure the MPLS VPN is kept current with security patches or upgrades.

3.2.7.5 Rapid Modifications to Configurations: Describe the process and methodology for rapid modifications of configurations (rapid being within 5 days of notification). Address the time intervals required for change to occur for each type of configuration affected. (e.g., hosted voice Centrex, WAN Access Service Connection)

3.2.8 Dynamic and Manual Rerouting Tracking

Dynamic and Manual Rerouting Tracking: WVOT requires that the vendor provide dynamic and manual rerouting tracking. Describe how dynamic and manual rerouting will be monitored, detected in the MPLS VPN, and how WVOT will be notified.

3.2.9 Monitoring

3.2.9.1 Monitoring: WVOT requires around-the-clock monitoring of services for the MPLS VPN Core, Peripheral Edge, and all circuit types utilized to reach customer/Agency premises **except** those deemed "Best Effort Only" in QoS (e.g., all Internet VPNs, ADSL and SDSL to the MPLS). This includes operating a Network Operations Center (NOC), utilizing state-of-the-art monitoring tools, performing real-time analysis and diagnostics of accumulated traffic information and extending to WVOT real-

time access to these tools so that WVOT is able to manage data, voice and multimedia MPLS VPN services. Vendor should clearly state and describe your approach or means of compliance.

3.2.9.2 Service Providers' NOC: The Service Provider should provide and operate a network operations center (NOC) that performs network monitoring for the MPLS VPN twenty-four hours a day, seven days per week. Describe the NOC that will be used and the type of activity WVOT can expect from this NOC. Further identify which NOC will serve WVOT and the MPLS VPN. Describe how WVOT technical staff will communicate with Service Provider technical staff in the NOC, including telephone, e-mail, and other online contact. Identify which secondary NOC, if any, will be used as a backup.

3.2.9.3 Alarm and Alert Monitoring System or Application: WVOT requires that an alarm and alert system that receives, processes and displays alarms and alerts received from Access Circuits and hardware, be used in the delivery of the MPLS VPN. Confirm Vendor's compliance with this mandatory and describe in detail, the system that will be utilized and how it will support WVOT.

- ❖ The vendor shall proactively inform the State of any serious issues.
- ❖ Clearly identify the capabilities of the system for generating alarms and alerts.
- ❖ Provide examples of output from such system or application screen-shots.
- ❖ Describe policies and procedures that are followed to notify WVOT once major or catastrophic alarms/alerts are received.
- ❖ Describe the backup system if one exists.

3.2.9.3.1 Viewing Alarms and Alerts: Describe what types of alarms and alerts are available for viewing and how and when they are generated.

3.2.9.3.2 It is highly desirable that the WVOT have access to a web-based GUI or other online interface for alarms and alerts.

3.2.9.3.3 Time Intervals: Identify time intervals Vendor has established that determine when an outage has occurred.

3.2.9.3.4 Reaction to Alarms: Describe what immediate steps are taken once an alarm is received.

3.2.9.3.5 Recurring Events: Describe what procedures are in place to mitigate recurring events.

3.2.9.3.6 Scope of Monitoring: Clearly identify, with examples, at what point in the transport architecture monitoring ends.

3.2.9.4 The State strongly desires that the Alarm/Alert system integrate into the Trouble Ticketing System: Is the alarm and alert system or application integrated into the Trouble Ticketing System used to support the MPLS VPN so that Trouble Tickets can automatically be opened when an alarm or alert is discovered? Describe the relationship between the two systems or applications and identify what constitutes a Trouble Ticket being opened once the information is forwarded from the alarm and alert system or application.

3.2.9.5 Performance and Error Monitoring of MPLS VPN Access Circuits and Vendor Provided MPLS CPE except where noted (e.g., any "Best Efforts" circuits or services, ADSL and SDSL). WVOT requires that the Service Provider operate a real-time, modern performance and error monitoring system that will be used in the delivery of the MPLS VPN. Describe in detail, the system provided and how it will be used to support WVOT and the MPLS VPN. Provide examples of output from such system or application screen-shots. Describe policies and procedures that are followed to notify WVOT once major or catastrophic performance issues are encountered. Do not use monthly averages. The WVOT requires that these statistics be real-time, or as close as possible. Please describe vendor capabilities.

3.2.9.5.1 Degradation of service: Identify specific types of performance information that is being evaluated and how degradation of service is determined.

3.2.9.5.2 Reaction to Performance Issues: Identify the immediate steps that are taken once there is degradation of service or errors encountered and the procedures that are in place to address these events.

3.2.9.5.3 Time Intervals: Define how long a problem should exist before it is reported.

3.2.9.5.4 Problem Continuum: Identify what types of performance issues and errors are reported immediately and those that are monitored for a period of time.

3.2.9.5.5 Scope of Monitoring: Identify, with examples, at what point in the transport architecture monitoring ends.

3.2.9.6 Bandwidth Utilization and Exception Monitoring: WVOT requires that the Service Provider operate a real-time, modern bandwidth utilization and exception monitoring system that monitors bandwidth utilization and creates exception reports to be used in the management of the MPLS VPN. Agencies should have real-time view only access to their locations and their VPNs/VRFs.

- ❖ Please describe the system in detail and how it will be used.
- ❖ Describe how WVOT will be notified when exceptions have been encountered that impact service delivery.

3.2.9.6.1 Traffic Usage by Technology-Type: Address specific performance monitoring criteria as it pertains to data, VoIP, and video bandwidth usage. Address each performance aspect individually, showing what is measured and how it is measured

3.2.9.6.2 Polling Intervals: Identify polling intervals used for each technology-type.

3.2.9.6.3 Threshold Levels: Provide threshold levels observed for each technology-type including the latency time window adopted that generates an exception.

3.2.9.6.4 Time Interval: Define how long a problem should exist before it is reported.

3.2.9.6.5 Problem Continuum: Identify the types of exceptions that are reported immediately and those that are monitored for a period of time.

3.2.9.7 Redundant Performance and Error Monitoring System or Application: Describe and address the relationship between the primary and secondary system or application, if a redundant system or application is proposed.

3.2.9.8 Application-Layer Monitoring: For diagnostic purposes WVOT desires the ability to occasionally view or monitor application-layer traffic traversing the MPLS VPN. WVOT desires to monitor end-to-end response times as applications are released over MPLS VPN in order to determine application performance levels. Describe time intervals that can be included in a report. Indicate whether or not the report can be accessed and displayed via web browser.

3.2.9.9 Verification of MPLS VPN Traffic Processing: WVOT desires that the Service Provider operates a real-time, modern system that captures and displays data, VoIP, and video traffic that is deployed across the proposed MPLS VPN architecture in accordance with applicable Service Levels. Describe how the system or application operates to display the MPLS VPN usage.

3.2.9.10 Access to Alarm and Alert System or Application: It is required that Internet-connected WVOT users be able to access the alarm and alert system or application with a web browser. Identify any other needed hardware or software for access to the alarm and alert system or application. The alarm and alert system or application should provide a graphical user interface to the web browser. Agencies should have real-time read only access to their locations. This system or application should support at least twenty (20) concurrent authorized WVOT users.

3.2.9.11 Identification Options within Alarm and Alert System: WVOT desires to have the flexibility to view alarm and alert information by identifiers recognizable by WVOT. Examples are Agency Name; Circuit ID, VPN, and CPE name. Describe how the system offers this flexibility.

3.2.9.12 Alarm and Alert System or Application Training: Training should be provided as to access and use of the alarm or alert system or application. Training should be provided for at least 50 (fifty) WVOT users. Describe the training.

3.2.9.13 Alternate Access to Alarm and Alert System or Application: WVOT desires a practical alternative means of access to the alarm and alert system or application. Describe how this is accomplished.

3.2.9.14 Access to Performance and Error Monitoring of MPLS VPN Access Circuits and CPE: WVOT strongly desires that their users be able to access and view performance of the error monitoring system or application with a web browser. WVOT prefers that the users only have access to their Agency information not the entire MPLS VPN network. Identify any other needed hardware or software for access to performance and error monitoring system or application. The performance and error monitoring system or application should provide a graphical interface to the web browser. This system or application should support at least 50 (fifty) concurrent authorized WVOT users.

3.2.9.15 Identification Options within Performance and Error Monitoring System: WVOT desires the flexibility to view performance and error monitoring information by identifiers recognizable by WVOT. Examples are Agency Name; Circuit ID, VPN, and CPE name. Describe how the system offers this flexibility.

3.2.9.16 Monitoring Data Filtered: Is information that is contained in alarm and alert data or performance and error monitoring filtered before it will be disseminated to WVOT? If yes, describe what is being filtered before it reaches WVOT.

3.2.9.17 Extracting Information from CPE Owned and Managed by Service Provider, (i.e. as a service like Hosted Voice solutions): WVOT desires direct secure access to CPE hardware used in the delivery of MPLS VPN service. WVOT would poll CPE and re-process that information on WVOT's own network management system. Describe WVOT's level of access, types of output, the frequency of polling allowed and the method allowed to poll data (SNMP, SNMPv2, SAA, etc.).

3.3 Trouble Ticketing

3.3.1 WVOT requires that the Service Provider operate a Trouble Ticketing Function that includes an online system available statewide. The Trouble Ticketing Function should include processes and procedures that can be used by WVOT to open, update, close and track Trouble Tickets for the planned MPLS VPN and related services covered in this RFP.

3.3.2 Trouble Ticketing System: WVOT requires that all trouble ticket activity initiated by WVOT that affects the support of MPLS VPN service delivery to WVOT should be done through an online Trouble Ticketing System provided by the Service Provider. The system should be available for use by WVOT twenty-four hours per day, seven days per week excluding maintenance time. Confirm Vendor's compliance with this mandatory and provide applicable policies and procedures used to support this system.

- 3.3.3 Trouble Ticket Activity Types:** Identify the types of items and activities that flow through the Trouble Ticketing System and how open ticket confirmations are communicated back to WVOT.
- 3.3.4 Notification Back to WVOT:** Describe how WVOT is kept current on the progress of trouble tickets that were opened by the Service Provider and by WVOT.
- 3.3.5 Affect on SLAs:** Define the time relationship between opening of a trouble ticket and the effects on supported SLAs, i.e., when do the SLA requirements begin?
- 3.3.6 Severity Levels:** Describe how Trouble Tickets are treated differently based upon their Severity and Priority Levels. (Severity refers to the technical impact of a problem. Priority refers to the degree of business necessity for resolving the problem.)
- 3.3.7 Chronic Problems:** Provide policies and procedures of how a problem becomes defined as chronic, and the resolution. Clearly identify time intervals between chronic events before a trouble ticket is opened.
- 3.3.8 Advanced Outage Notification:** WVOT should be notified prior to a planned outage affecting WVOT's MPLS VPN network, Access Circuits, CPE, or other associated IP-based services including video conference services. Scheduled maintenance should occur on an advanced mutually agreed upon time table that has minimal to nominal impact to the existing agency or entity. Provide a policy that complies with this requirement. List maintenance window types, time frames allotted, and identify which windows are excluded from any calculations of Availability.
- 3.3.9 Emergency Maintenance Windows:** Provide the procedure as to when and how Vendor will notify WVOT when emergency maintenance is required.
- 3.3.10 Trouble Ticketing System Integration:** Describe how the Trouble Ticketing System is integrated with Vendor's Order Management, Change Order, Provisioning, Performance Monitoring, Problem Management, and Billing Systems.
- 3.3.11 Access to Trouble Ticketing System:** It is strongly desired that Internet-connected WVOT users be able to access the Trouble Ticketing System with a web browser. Identify any other needed hardware or software for access to the Trouble Ticketing System. The Trouble Ticketing System should provide a graphical interface to the web browser. Agencies should have real-time read only access to their locations. The Trouble Ticketing System should support at least twenty (20) concurrent authorized WVOT users.
- 3.3.12 Alternate Access to Trouble Ticketing Function:** WVOT desires a practical alternative means of access to the Trouble Ticket System. Describe how this is accomplished.
- 3.3.13 Trouble Ticketing System Training:** Training should be provided for access and use of the Trouble Ticketing System. Training should be provided for at least 50 (fifty) WVOT users. Describe the training that will be offered.

- 3.3.14 Redundant System or Application:** Describe how WVOT would access the Trouble Ticketing System if the primary was unavailable. Address the relationship between the primary and secondary systems.
- 3.3.15 Identification Options within Trouble Ticketing System:** WVOT desires the flexibility to track Trouble Tickets by identifiers recognizable by WVOT. Examples are Agency Name; Circuit ID, VPN, service address, CPE name. WVOT desires that the Service Provider be able to recognize and flag open Trouble Tickets by individual Circuit ID or customer for quick identification and prioritization by the proposed system. Describe how the Trouble Ticketing System addresses the above items.
- 3.3.16 Trouble Ticketing Tracking:** Describe how WVOT would track Trouble Ticket status with as close to real-time reporting as possible. Clearly identify what can be tracked, by what identifier, and how that information is communicated back to WVOT.
- 3.3.17 Problem Resolution Process:** Provide policies and procedures that address the process of problem resolution from time of initial incident to closure. Identify published response times for each level of resolution. Define WVOT's involvement.
- 3.3.18 Service Restoration:** Describe procedures with respect to service restoration both for MPLS VPN Access Circuits and hardware, including CPE provided by the Vendor as part of the service. Address levels of Severity and Priority if applicable.
- 3.3.19 Troubleshooting and Testing:** Describe the troubleshooting and testing procedures in place to support the integrity of the MPLS VPN, including MPLS VPN access and managed CPE operating in a production environment. When is troubleshooting initiated? Include what time of day troubleshooting is conducted for non-emergencies. Provide data parameters that indicate when tolerance levels for bandwidth utilization, errors, drops, round trip response time, and Jitter reach levels that require troubleshooting.
- 3.3.20 Intrusive Testing:** WVOT requires that the Service Provider notify WVOT prior to any intrusive troubleshooting or testing on Access Circuits and CPE used to support the MPLS VPN when a trouble ticket does not exist for same or if the circumstance does not require immediate intervention. Provide policy and guidelines for intrusive testing.
- 3.3.21 Trouble Ticketing System Reports:** The Trouble Ticketing System should be able to produce both scheduled and ad hoc reports and provide web browser access for WVOT. Provide screenshots of standard reports. Describe creation of ad hoc reports with the Trouble Ticketing System.
- 3.3.22 Alternative Access to Trouble Ticketing Reports:** Describe how to access reports if WVOT is not able to retrieve reports online.
- 3.3.23 Trouble Ticketing Reporting:** Is the information disseminated to WVOT filtered for content before it reaches WVOT? If yes, describe what is being filtered before it reaches WVOT.
- 3.3.24 Customized Reports:** WVOT desires to create customized reports either on-demand or a scheduled basis. Describe the capabilities of the Trouble Ticketing System in this area. Below are examples of reports that WVOT would be interested in generating

(reports to include, but not limited to):

- ❖ Number of troubles reported within time frames: Time of day, day of week, month of year.
- ❖ Number of repeat troubles reported within a thirty-day period.
- ❖ Trouble Tickets by Agency
- ❖ Mean-time-to-repair statistics for all Priority Levels.
- ❖ By type of trouble reported as defined by Service Providers' classifications.
- ❖ By Priority Levels.
- ❖ Troubles reported by site ID, circuit ID, originator's name or ID.
- ❖ Number of troubles that were escalated by level of escalation.
- ❖ Number of trouble tickets opened by Priority Levels.
- ❖ Number of trouble tickets closed by Priority Levels.
- ❖ Number of trouble tickets unresolved by Priority Levels.
- ❖ Access into trouble ticketing system by user.
- ❖ Bandwidth utilization (in, out, and total)
- ❖ Latency
- ❖ Jitter
- ❖ Packet Delivery

3.4 Reporting

- 3.4.1 Reporting: WVOT requires web -browser access to online reporting as it pertains to performance of MPLS VPN services. Examples of needed reports include alarms and alerts, threshold exceptions, user access, trend analysis, chronic Access Circuits or CPE, threat analysis, verification of traffic processing, etc. Describe the reports available and differentiate between reports that are scheduled and those that are available on demand. Provide example screenshots of the various reports and describe WVOT's options with respect to viewing (GUI, text, diagrams, etc).
- 3.4.2 Report on Verification of MPLS VPN Traffic Processing: The Service Provider should provide WVOT with verification that MPLS VPN traffic is being processed at QoS and CoS levels prescribed by WVOT. Reporting should be broken down by agency and VRF/VPN at a minimum. Provide screenshots of this report.
- 3.4.3 Event Correlation on MPLS VPN Transport: Describe how event correlation analysis is conducted and how the results of the efforts are applied. Provide procedures that describe when event correlation analysis is initiated and how the results are applied.
- 3.4.4 Proactive Monitoring on MPLS VPN transport: Describe how the result of the event correlation analysis of the MPLS VPN transport is utilized to prevent future service affecting events.
- 3.4.5 Proactive Monitoring on CPE Managed by the Service Provider: Describe how the result of the event correlation analysis of the Service Provider managed CPE transport is utilized to prevent future service affecting events.
- 3.4.6 Proactive Analysis: Describe how the Trouble Ticketing System is used

In support of the MPLS VPN. Describe if both transport and CPE Trouble Tickets are used in analysis.

3.4.7 **Root Cause Analysis on MPLS VPN Transport:** Describe how root cause analysis is conducted for the MPLS VPN transport and how the results of the efforts are applied. Provide policies that determine when root cause analysis is initiated and how the results are applied.

3.4.8 **Root Cause Analysis on CPE Managed by Service Provider:** Describe how root cause analysis is conducted for the Service Provider managed CPE and how the results of the efforts are applied. Provide policies that determine when root cause analysis is initiated and how the results are applied.

3.4.9 **Trouble Ticketing System Integration:** Describe how the Trouble Ticketing System is used to support the efforts to arrive at root cause analysis.

3.4.10 **Trend Analysis:** Describe how trend analysis is conducted on MPLS VPN Access Circuits and managed CPE. Provide policies and procedures that drive when trend analysis is initiated and how the results are applied.

3.4.11 **Degradation of Service:** Describe how degradation tracking of MPLS VPN Access Circuits is accomplished and examples of the types of Access Circuits tracked. Provide thresholds that trigger opening of a trouble ticket and provide remediation. Describe any variations of tracking as it pertains to data, VoIP and video.

3.4.12 **Escalation:** List and describe trouble Severity and Priority Levels and how they apply to data, VoIP and video applications. (Severity refers to the technical impact of a problem. Priority refers to the degree of business necessity for resolving the problem.) Provide examples for each. Describe Vendor's escalation policies and procedures for data, VoIP and video (if different) troubles and what drives troubles to be escalated to the next level. Identify professional skill levels that are required to perform each level of escalation. Describe communication methods that will be used by WVOT to track initial escalations and escalations between Severity and Priority Levels.

3.5 Service Ordering

Service Orders

3.5.1 All requests for service under this contract shall be submitted to the successful vendor by WVOT, or a WVOT authorized entity, via a Telecommunications Change Request (TCR). No service shall be installed by the successful vendor without a TCR that has been approved by WVOT. The vendor's failure to conform to this requirement may result in non-payment of services. The Vendor shall communicate electronically, at a minimum, once per week to WVOT with the TCR number, the vendor's work order number, and the due date of installation for all TCRs received from WVOT and or an authorized agent. TCRs will not be submitted by the State for the conversion of existing service. They will only be submitted when requesting new circuits, new features on existing circuits, etc.

- 3.5.2 The successful vendor should have a Network Operations Center (NOC) or equal with a 24 x 7 x 365 availability with on-duty network engineers that can be reached via a nationwide toll-free phone number. All calls into the NOC should be answered by a live operator (i.e. no IVR or Automated Attendant). As part of the RFP response, the vendor should also provide other appropriate contact information where problems or outages are to be reported. Upon such a report, the vendor shall note the time of the report, assign a reference number for the report, and provide this information to the caller.
- 3.5.3 The State requires the NOC (or equal) to have access to a current data base that includes all of the State's circuits, VPN(s), VRF(s), and all connected VoIP services whether Hosted or an IP trunk and or other future addition to said contract and by the same as mentioned above for the MPLS' complete range of attachments/access(s) and services by their physical location, name of the site, Circuit ID(CID), VPN, and or VRF ID etc., for easy identification purposes. The database shall be searchable by CID or other unique identification number or physical address.
- 3.5.4 Escalation and reporting procedures for service outages shall be provided by the successful vendor(s) prior to award. Escalation schedules shall contain escalation timeframes from point of incident and telephone numbers for all levels of activity on the escalation schedule. Trouble call management escalation may include high priority reporting and resolution centers and not necessarily individuals.
- 3.5.5 The vendor should provide a statistical report of network reliability, excess bandwidth capacity at the MPLS Core and Peripheral Edge that, at a minimum, is to be presented at the WVOT/Vendor scheduled meetings. The State may require from time to time reports by geographic region showing capacity to turn up additional circuits and or services. The Vendor should establish thresholds based on the number and size of the Geographic area served that alert the WVOT and or its authorized Agency designee of when said threshold has been reached or breached. The State may request such statistical reports outside of the meeting times. If so, such reports shall be given to the State within three (3) business days from the date requested.
- 3.5.6 Examples of reports are excess bandwidth capacity, network access type availability and reliability (all types), outage durations (all types), and measure of provisioning commitment. Summary reports will be prepared in graphical format and, statistical backup, on a per incident report, and per geographic region as applicable, will be made available.
- 3.5.7 Service Order System Training: Train-the-trainer training should be provided to the WVOT staff as to access and use of the Service Order System. Training should be provided for at least 10 (ten) WVOT users. Describe the training that will be offered.
- 3.5.8 Service Order System Reports: The Service Order System should be able to produce both scheduled and ad hoc reports and provide online (web browser) viewing by WVOT. Describe the standard reports available. WVOT should be able to develop and view customized reports using the Service Order System. Examples of Service Order reports may include but not limited to Service Order activity by site, agency, specific time periods, order status, or by type of activity or circuit. Describe how the Service Order System can satisfy this requirement.

3.5.9 Provisioning of Additional MPLS VPN Service: Describe processes and procedures for engineering (preparation) of MPLS VPN services, Access Circuits, and other related services described in this RFP for the delivery of MPLS VPN service. Describe initial engineering, installation, configuration, testing, cutover, acceptance testing and billing establishment. Identify when the billing cycle begins. Detail coordination of activities with WVOT, including, but not limited to, site preparation (site survey) and establishment of access arrangements with other providers.

3.5.10 WVOT Requests for Engineering on Agency-owned CPE: Some WVOT Customers will purchase their own CPE. It is desirable that the Service Provider accept WVOT requests for new service that would require the Service Provider to configure agency-owned CPE for data, VoIP, and video for initial MPLS service delivery. Describe capabilities for engineering and configuration services for support of agency-owned CPE.

3.5.11 Inventory: Service Provider should maintain a current and accurate inventory that would incorporate all the contents provided in Appendix C. Examples of items to be included, but not limited to: Circuit ID, IP, IP assignments for VPNs, CPE IOS, QoS/COS assignments, Service Address, Agency, on-site contact information and Access Circuits. The Service Provider should provide inventory information to WVOT on a regular basis and on request. The Service Provider should maintain a current copy of inventory to include service items once the deployment of MPLS VPN services begin. Inventory information should be available for secure viewing via web browser as well as in spreadsheet format on portable storage media (CD). Provide the policies and procedures around this requirement.

3.6 Service Provider's Help Desk and Network Operations Center

3.6.1 WVOT will operate the first level of support through the WVOT Help Desk but will require the vendor's Help Desk support as required. WVOT will act as the liaison and will "own" the problem on behalf of WVOT Customers. Some Agencies/customers will be authorized by the WVOT to interact with the vendor on their own behalf for their VPNs/VRFs and, potentially, billing. Vendor should state their willingness to provide the desired helpdesk functionality to all WVOT authorized users.

Describe the scope of help-desk coverage offered to WVOT personnel. Include the type of assistance that would be extended to WVOT for end-to-end network support, including connectivity and performance, for data, VoIP, and video technologies. Describe personnel qualifications and expertise that are offered in support of the technologies mentioned above, to include the various levels of Help Desk support for WVOT such as Tier 1, Tier 2, Tier 3, and describe the services offered for each level of service.

3.6.2 Help Desk Integration: The Service Provider should have specific Help Desk staff support that functions logically within the overall WVOT enterprise helpdesk scheme to support network services including video conference services. A single call into the support service structure should cover questions concerning performance, reservations and scheduling, as well as typical end-to-end problem resolution for multimedia services. Requests for assistance could occur at any time day or night. Describe the approach for supporting this requirement.

3.6.3 The successful vendor should have a Network Operations Center (NOC) or equal with a 24 x 7 x 365 availability with on-duty network engineers that can be reached via a nationwide toll-free phone number. All calls into the NOC should be answered by a live operator (i.e. no IVR or Automated Attendant). Describe the process used to contact live support at the NOC. As part of the RFP response, the vendor should also provide other appropriate contact information where problems or outages are to be reported. Upon such a report, the vendor shall note the time of the report, assign a reference number for the report, and provide this information to the caller.

3.6.4 The State requires the NOC (or equal) to have access to a current data base that includes all of the State's circuits, VPN(s), VRF(s), and all connected VoIP services whether Hosted or an IP trunk and or other future addition to said contract and by the same as mentioned above for the MPLS' complete range of attachments/access(s) and services by their physical location, name of the site, Circuit ID, VPN, and or VRF ID etc. for easy identification purposes. The database shall be searchable by CID or other unique identification number or physical address.

3.7 Moves, Adds, Changes and Deletions (MACD)

3.7.1 **MACD Charges:** WVOT requires that all charges associated with any work order activity will appear on the invoice to WVOT within a maximum of two (2) billing cycles from acceptance date. WVOT will not accept any MACDs that were not authorized by WVOT, or a WVOT-authorized designee. Describe Vendor's process.

3.7.2 **Travel Costs:** Travel costs / per diem for Service Provider for services under this agreement will not be paid by WVOT.

3.7.3 The vendor should describe in detail the MACD capabilities that can be performed by the WVOT to reduce vendor work order charges.

3.7.4 The vendor should describe the access the WVOT will have to the MACD data base to determine the status of requested changes.

3.8 Change Orders

3.8.1 **Change Order Function MACD (Moves, Adds, Changes, and Deletions):** WVOT desires that the Service Provider operate a Change Order Function, which includes an online system (web browser). The Change Order Function should include processes and procedures that can be used by WVOT to request and track changes to

the planned MPLS VPN and related services covered in this RFP. Describe the function and how it will be used.

3.8.2 **Change Order System:** WVOT desires that all MPLS VPN Change Orders be entered through an online system (web browser) provided by the Service Provider. Describe how Change Order system fulfills this requirement. Describe how Change Orders are treated differently based upon their Priority Levels. Examples of Change Orders would include, but not be limited to, MPLS VPN Core, Access Circuits, and CPE configuration changes, QoS/CoS prioritizations, Bandwidth increases. Clearly identify all

turn-around times tied to each type of change order. Provide applicable policies and procedures used to support this system including alternate access methods if web is unavailable. Identify the types of items and activities that flow through Vendor's system and how confirmations are communicated back to WVOT.

3.8.3 Change Order System Integration: Describe how the Vendor's Change Order System is integrated with Order Management, Provisioning, Problem Management, and Billing Systems.

3.8.4 Access to Change Order System: WVOT desires that Internet-connected WVOT users be able to access the Change Order System with a web browser. Identify any other needed hardware or software for access to the Change Order System. Describe access to the Change Order System. The Change Order System should provide a graphical interface to the web browser. The Change Order System should support at least 40 (forty) concurrent authorized WVOT users.

3.8.5 Change Order System Training: Training should be provided as to access and use of the Change Order System. Training should be provided for at least forty (40) WVOT users. Describe the training that will be offered.

3.8.6 Change Order System Reports: The Change Order System should be able to produce both scheduled and ad hoc reports and provide online (web browser) viewing by WVOT. Describe any standard reports available. WVOT should be able to develop and view customized reports using the Change Order System. Examples of Change Order reports may include but not limited to Change Order activity by site, agency, specific time periods, order status or by type of activity or circuit. Describe how this can be achieved utilizing the Change Order System.

3.8.7 Hardware Changes to CPE Managed by Service Provider: Briefly describe the process for normal and emergency changes to hardware installed on an agency's premise (CPE.) Provide policies and procedures as to how the Change Order Function addresses hardware swap-outs, card and cable replacement. Describe policies for hardware repairs, replacements, swap-outs and update of inventory records. Provide lead times for service based upon different types of requests.

3.8.8 Configuration Changes to CPE Managed by Service Provider: Describe the process whereby normal and emergency changes are initiated by the Service Provider that affect configurations installed on an agency's premise. Include policies and procedures as to how the change management process addresses, but not limited to, routing tables, VPNs, ACL's, etc.

3.8.9 Restoration of CPE Configurations Managed by Service Provider: Describe Vendor's ability to accommodate a WVOT request to restore configurations to a Service Provider managed CPE device in order to bring a device back to its previous operational settings in the event of failure.

3.9 MINIMUM CONTRACT MANAGEMENT & BILLING REQUIREMENTS

Account Management Teams (Local and NOC) Numbers

The successful vendor is desired to provide appropriate LOCAL personnel, but at a minimum regional personnel to provide overall account management and to work in

tandem with the dedicated MPLS NOC team and dedicated staff at WVOT and or Agency personnel granted authority to act on behalf of only their particular Agency or Agency(s) in the case where said Agency has been granted authorization by the WVOT. The Account Manager(s) will meet with WVOT staff on a regular basis to discuss contractual matters, technology planning, billing issues and other administrative matters. The timing and location of these meetings shall be determined by WVOT after the contract is awarded. If a phone conference is agreeable, it will be the vendor's responsibility to provide a conference bridge at no cost to the State.

This account management function shall include a single point of contact (SPOC) for all problem resolutions, billing issues, installation activity and maintenance. The single point of contact shall be available to state staff via nationwide toll free calling. Escalation procedures for account management personnel should be provided in response to this RFP and will be required from the successful vendor(s) prior to award. This shall include, but not be limited to, the escalation as a result of an outage, installation and/or billing matters. Escalation schedules should contain names, titles and telephone numbers of account management escalation personnel.

3.10 Billing

3.10.1 WVOT requires that Vendor provide WVOT a point of contact for all billing issues/inquiries including a toll free number and email address. Collection agencies or collection departments are not allowed to contact WVOT. All communications will go through the Service Provider's single point of contact. The noted exception to this would be WVOT-authorized personnel, pre-approved to receive direct billing, who will require a like, single point of contact. Describe the process for this meeting this requirement.

3.10.2 All billings for services installed under this contract shall be presented to the TCS&B team of the (WVOT) of the Department of Administration, unless the WVOT has authorized and directed the Vendor to allow Administration and billing to be direct from and correspondingly billed to a given Agency. The billing should be both electronically and in paper format, on a monthly basis and accurately billed in accordance with the contract terms and pricing.

3.10.3 Electronic billing shall be provided to WVOT in a format that is acceptable to the WVOT. The State reserves the right to request a sample of the Vendor's proposed electronic and paper billing prior to award from the apparent winning Vendor and the apparent second best total value Vendor. The Vendor should have technical support available to WVOT for the purpose of identifying the record layout, etc. so that invoices/reports can be generated from such electronic data.

3.10.4 The Vendor is required to provide a web based portal for the WVOT to view all contract participants inventories, bills and VPN9s), and VRF(s), including such detail as the Agency or Entities circuit Access types and CoS etc. Certain Agency's will be given permission by the WVOT to access only their specific Agency's portion of the VPN(s), VRF(s), circuits Access types, CoS etc, and their corresponding billing for their services. The granting of said access is at the sole discretion of the WVOT.

3.10.5 The vendor shall be required to comply with the terms of West Virginia State Code, §5A-7-4a, (Senate Bill 700) and the emergency Legislative Rules with

regard to billing and payment. For a copy of the Senate Bill visit: <http://www.legis.state.wv.us/legishp.html>. To view the emergency rules (you should have Adobe to view the rules), visit: <http://www.wvsos.org/adlaw/proposed/161-02%20er.pdf>

3.10.6 Pursuant to the terms of West Virginia State Code, §5A-7-4a, (Senate Bill 700), spending units that do not pay through the State's Treasury are not required to be included in the billing submitted to WVOT. The vendors should offer the contract prices to non-state entities that are West Virginia County or City Municipalities, and or qualified non-profit entities, and bill their spending units directly for the services. (WVOT should be consulted prior to the vendor providing this direct billing, for authorization.)

3.10.7 Describe in detail how the vendor plans to meet, or exceed, the aforementioned requirements.

3.11 Billing Cycle

All billings for services installed under this contract shall be presented to the TCS&B team of the (WVOT) of the Department of Administration, unless the WVOT has authorized and directed the Vendor to allow Administration and billing to be direct from and correspondingly billed to a given Agency. The billing should be both electronically and in paper format, on a monthly basis and accurately billed in accordance with the contract terms and pricing.

Electronic billing shall be provided to WVOT in a format that is acceptable to the WVOT. The State reserves the right to request a sample of the Vendor's proposed electronic and paper billing prior to award from the apparent winning Vendor and the apparent second best total value Vendor. The Vendor should have technical support available to WVOT for the purpose of identifying the record layout, etc. so that invoices/reports can be generated from such electronic data.

The Vendor is required to provide a web based portal for the WVOT to view all contract participants' inventories, bills and VPN(s), and VRF(s), including such detail as the Agency or Entities circuit Access types and CoS etc. Certain Agencies will be given permission by the WVOT to access only their specific Agency's portion of the VPN(s), VRF(s), circuits Access types, CoS etc, and their corresponding billing for their services. The granting of said access is at the sole discretion of the WVOT

The vendor shall be required to comply with the terms of West Virginia State Code, §5A-7-4a, (Senate Bill 700) and the emergency Legislative Rules with regards to billing and payment. For a copy of the Senate Bill visit: <http://www.legis.state.wv.us/legishp.html> To view the emergency rules (you should have Adobe to view the rules), visit: <http://www.wvsos.org/adlaw/proposed/161-02%20er.pdf>

As per the terms of West Virginia State Code, §5A-7-4a, (Senate Bill 700), spending units that do not pay through the State's treasury are not required to be included in the billing submitted to WVOT. The vendors should offer the contract prices to non-state entities that are WV County or City Municipalities and or qualified non-profits and bill their spending units directly for the services.

3.11.1 Bill Cycle: Describe the bill date cutoff process.

3.11.2 New Service Billing: WVOT's obligation to pay shall begin only after WVOT accepts the service **ACCEPTANCE:** The performance period shall begin on the installation date and shall end when the installed services have met the standard of performance for a period of thirty (30) consecutive days. The standard of performance shall be as proposed in the vendor's SLA. In the event the installed services do not meet the standard of performance during the initial thirty (30) consecutive days, the standard of performance test shall continue on a day-by-day basis until the standard of performance is met for a total of thirty (30) consecutive days. If the installed services does not meet the standard of performance after one hundred and twenty (120) calendar days, from the installation date, or the first day from the start of the performance period if such is delayed by the State, the State may at its option request to terminate the order and seek alternative plans.

3.12 Invoice Presentation

3.12.1 Categorization: Propose a billing hierarchy that presents invoice details categorized by the following:

-Rollup to statewide (WVOT)-

- ❖ WVOT regions
- ❖ Agency (total)
- ❖ Agency by site
- ❖ Agency Division
- ❖ Site (service address and CLLI code)
- ❖ Circuit type
- ❖ Circuit ID

3.12.2 Circuit ID: WVOT requires all invoice components (e.g. FCC charges, one time charges, credits, recurring charges, cancellations, escalations, etc.) be linked to a Circuit ID or voice line.

3.12.3 Changes to Categorization: Describe process for changing the billing hierarchy after the initial set up.

3.12.4 Sample of Categorization: Provide a sample invoice of no more than ten (10) pages demonstrating understanding of the requirements previously listed. The WVOT desires submission of both a hard copy and an electronic copy.

3.12.5 Electronic File Format: The vendor should provide to WVOT an requires the electronic submission of a single monthly invoice covering the entire State account in the format proposed in 3.10.3 that is able to be downloaded to an office application (such as: XML, RTF, HTML, XLS) and be searchable by every data field and service code. The vendor should have a web-based portal where the billing information is available without having to download the electronic invoice. Vendor should confirm compliance with this requirement and describe the proposed methodology.

3.12.6 Audit Support: WVOT desires that the Service Provider provide an accurate, reliable and secure monthly bill (both hard copy and the electronic version)

and a process for monthly auditing of the bill. Confirm Vendor's compliance with this desirable and describe the proposed methodology.

3.12.7 Itemization: WVOT desires that invoices be presented in an itemized format with all abbreviations described. Service Provider should supply a current glossary (and describe process for maintaining the glossary) of all abbreviations for any and all invoice components.

3.12.8 Penalties: WVOT will not be held liable for penalties of any kind, including, but not limited to; interest on late payments, cancellation charges and early termination charges. Confirm Vendor's acknowledgement and agreement. The State will adhere to the requirements of the Prompt Payment Act which governs interest on late payments.

3.12.9 Records: WVOT requires that the service provider will, and will require each of its subcontractors, to maintain accurate books, records, documents and other evidence concerning its financial status, costs, expenses, formulas for computing prices, and provision of services (collectively, "Records") for five (5) years after the final payment made by WVOT. Confirm that Vendor's accounting procedures and practices conform to generally accepted accounting principles ("GAAP") and that the costs applicable to WVOT will be readily ascertainable from Vendor's Records.

3.12.10 Audit Documentation: WVOT requires that the service provider submit to audits performed by the State Department of Audits and Accounts, an authorized entity, at any reasonable time during its normal business hours, to inspect and audit any Records. Confirm that Vendor will submit to such audits and that Vendor will deliver any required documentation and Records in preparation of such audits.

3.12.11 All requests for service under this contract shall be submitted to the successful vendor by the WVOT, or a WVOT-authorized user, via a TCR. No service shall be installed by the successful vendor without a TCR that has been approved by WVOT or authorized user. The vendor's failure to conform to this requirement may result in non-payment of services.

3.12.12 The Vendor should communicate electronically, at a minimum, once per week to WVOT, or a WVOT-authorized user, with the TCR number, the vendor's work order number, and the due date of installation for all TCRs received from WVOT. Vendor should state their willingness to comply with this request.

3.12.13 TCRs will not be required to be submitted by the State for the conversion of existing service. Vendor should confirm acceptance.

3.13 Credits

3.13.1 Credits for Billing Errors: WVOT requires that credits for items billed in error or for other reasons should be refunded in the form of a credit against the monthly invoice. The credits should clearly identify which data circuit/voice lines are receiving the credit.

3.13.2 WVOT requires all credits should be resolved within a maximum of three (3) billing cycles. Describe Vendor's approach. If the credit is not received within the three billing cycles, the WVOT reserves the right to deduct it from the amount due on the 4th billing cycle.

3.14 Billing Escalation

3.14.1 Billing Escalation: WVOT desires that the Service Provider establish and document a billing escalation process to resolve any billing issue including discrepancies, errors, omissions, or unrecognized charges. Describe Vendor's billing escalation process.

3.14.2 Tracking of all Billing Issues: Describe the process for tracking the status of all billing issues, inquiries, credits, refunds, and disputes.

3.15 Dispute Resolution Process

3.15.1 Dispute Resolution Process: Define billing dispute resolution process and benchmark timelines to resolve. Include WVOT responsibilities.

3.15.2 Dispute Resolution: WVOT desires that all disputes should be resolved within a maximum of three (3) billing cycles. Describe the approach to handling this request.

3.16 Transition and Acceptance

3.16.1 Project Management -Implementation

3.16.1.1 The requirements of this section will be at no additional charge to the State, including, but not limited to, Travel, Lodging and Meals. All costs should be inclusive.

3.16.1.2 Given the stringent implementation timeframes, the State is requiring the successful vendor(s) to assign an implementation team to ensure a smooth transition to the new network and vendor.

3.16.1.3 Vendor shall submit, as part of their quote, an implementation plan that ensures the smooth transition to the new service.

3.16.1.4 Each member of the implementation team should be dedicated to this project and shall not be assigned any other projects without the written approval of the State.

- 3.16.1.5** At a minimum, the implementation team shall include a Project Manager (who has worked on an implementation of this magnitude in the past 12 months) and a minimum of three implementation specialists (who have worked on an implementation of this magnitude in the past 12 months). All members of the implementation team should have a technical background in Telecommunications. The Project Manager shall be qualified and experienced in Project Management skills (PMI certification is desirable).
- 3.16.1.6** Vendors should provide qualifications, resumes and past experience for the people designated to be on the Implementation Team.
- 3.16.1.7** Vendors should provide a synopsis of similar work of this magnitude performed by the Implementation team within the past 12 months. (This request is in addition to mandatory vendor business references.)
- 3.16.1.8** There will need to be face-to-face discussions at different stages throughout the implementation phase. The Implementation team should agree to have these meetings in Charleston, West Virginia, or at a location within West Virginia, as specified by the State.
- 3.16.1.9** There should be conference calls at least on a weekly basis with all members of the Implementation Team. The conference bridge for these conference calls should be provided by the vendor at no charge to the State.
- 3.16.1.10** The Project Manager will be responsible for disseminating meeting minutes no later than the next business day after the conference call/face-to-face meeting. In addition to the meeting minutes, the Project Manager shall also be responsible for the creation and update of a timeline, which clearly shows the progress being made on the implementation of the different circuit types for the different entities.
- 3.16.1.11** On a weekly basis, the Project Manager should prepare an Executive Status Report, showing the progress made and activities planned for the upcoming week.
- 3.16.1.12** It is the State's desire that the Project Manager(s) and the Implementation Team(s) be housed at, or near, the WVOT's Facility in Charleston, WV during the implementation phase.
- 3.16.1.13** WVOT would be responsible for providing network connectivity and Internet connectivity required for the Implementation team members. All PC hardware, peripherals, etc. are the responsibility of the vendor.
- 3.16.1.14** Any VPN access that may be needed by the Implementation team to connect back to the corporate network will be the responsibility of the vendor.
- 3.16.1.15** Project Plan: Submit a representative, but detailed, project management plan that includes items such as: methodology, processes, procedures, WBS and schedule, demonstrating understanding of the scope and issues involved. The project plan is especially critical to the success of this effort. WVOT realizes that the sequence of cutovers for the approximately 2000 sites will have to be created in collaboration with the Service Provider. Different Agencies have critical business events at different times

of the year, specifically K-12 and the Library Commission should be cut-over in a relatively short period of time and represent approximately 1500 sites.

3.16.2 Design Plan

3.16.2.1 Design Plan: Vendor should provide a recommended design to include Access Circuits and CPE for each location. Vendors should view data circuits by geographic region.

3.16.3 Access Circuits Type of Access Circuit: For each general type of Access Circuit (DSL, ADSL, SDSL, Frame Relay T-1, T-1 Clear Channel, DS-3, OC-3, 10Mb Fast Ethernet, 100Mb Fast Ethernet and 1Gb Fast Ethernet), attach a project plan and schedule, for the transition of an example site and all other activities associated with the transition. WVOT expects that the Service Provider will have inventory reconciliation. Describe the inventory reconciliation process. The project plan should address, at a minimum, the following areas:

- ❖ Billing
- ❖ Provisioning
- ❖ Training
- ❖ Installation
- ❖ Design
- ❖ Inventory Reconciliation
- ❖ Testing
- ❖ Acceptance
- ❖ Cutover
- ❖ Risk Management plan
- ❖ Change Order plan
- ❖ Escalation procedure

Assumptions on times to deal with other parties (agency site personnel, WVOT, local access providers, etc.)

3.16.4 Staffing Plan

3.16.4.1 Staffing Proposal: The Vendor should present a staffing proposal that illustrates the best mix of skills and experience to achieve project objectives.

3.16.4.2 Key Personnel: Describe and provide names, resumes and responsibilities of all Key Personnel (if any) and time commitments of proposed staff (full time/part time and/or number of man days/months/years/ per person over the course of the transition project. At a minimum, Vendor should include the Project Leader and the Technical Lead.

3.16.5 Vendor Qualifications

3.16.5.1 Prior Project Experience: Identify four examples of prior like-size MPLS deployment projects of similar scope and magnitude in which Vendor performed transition and installation. It is highly desirable that the experience referenced above be a conversion from a State or Federal government entity that was using a frame relay/ATM environment connected via traditional Telco circuits like the State of West Virginia currently has in place to the fully meshed environment of MPLS VPN services.

3.16.5.2 Customer References: Provide four (4) references of customers of like size (more than 1,000 sites), at least one (1) of which should be a governmental installation using an MPLS VPN network. References should describe in detail the type and duration of services, dates of service, and effectiveness of the services provided. Each reference will be evaluated for content and relevance. Vendor's reference information shall not exceed five pages in total for each reference. If the Vendor is partnering with a subcontractor, two separate references should be provided for the subcontractor in the same format defined in Appendix F – Corporate Reference Form. WVOT reserves the right to contact references, as well as develop its own references.

3.16.5.3 Organizational Chart: Provide an organizational chart for the personnel who will be providing deliverables and/or performing the services requested during the transition. Changes of Key Personnel during the transition are subject to WVOT approval. Such approval will not be unreasonably withheld.

3.16.5.4 Resources: Outline the Agency and WVOT resources that would be required to interface with the Service Provider and the amount of time necessary.

3.16.5.5 Staff Experience: Submit resumes with references for each proposed key staff member employed by either Vendor or subcontractor.

3.16.6 Subcontractors

3.16.6.1 Named Subcontractors: The Vendor should disclose the planned use of any subcontractor that will perform twenty percent or more of the services described in the RFP. In addition, Vendor may choose to identify any other subcontractor that Vendor believes may add value.

3.16.6.2 Named Subcontractor Information: Vendor should provide the following information: Name and address of each Named Subcontractor and the work the subcontractor will be performing.

3.16.6.3 Subcontractor Approval: Adding or changing Named Subcontractors during the contract should have prior WVOT approval.

3.16.6.4 Subcontractor Performance: The Service Provider will be responsible for the performance of any subcontractors and will not be relieved by nonperformance of any sub-contractors. Vendor shall provide a summary of qualifications, years of experience, and references for all Named Subcontractors.

3.16.7 Timeline

3.16.7.1 All Sites: Propose a representative timeline for the transition of the approximately 1800 sites. It is not necessary to call out individual sites, but the Service Provider should provide justification for the proposed timeline.

3.16.7.2 Liquidated Damages for Missed Timeline: Prior to award, WVOT and the

apparent successful vendor/Service Provider will negotiate a mutually agreeable final timeline, based on the Vendor's proposed timeline. For each Access Circuit that is not transitioned more than fifteen (15) Business Days after the date set forth in the timeline due to delays not caused by WVOT or its Customers. Service Provider shall pay to WVOT, as liquidated damages, an amount equal to two (2) times the current MRC for such circuit. Thereafter, for each additional monthly billing period during which such Access Circuit is not transitioned due to delays not caused by WVOT or its Customers, the Service Provider shall pay WVOT an additional amount equal to two (2) times the current MRC for each such circuit. This requirement only applies to the circuits currently available from DATA05. This does not apply to the conversion of Voice/DAIN service, which has been exempted from this timeline.

3.16.8 Technology Refresh

Describe how a technology refresh, router upgrade, after hours (1800 – 0500) work and network maintenance would be accomplished during the transition.

3.16.9 Cutover

This is the time when testing of the circuit should be accomplished. WVOT requires that the Service Provider address the following:

3.16.9.1 Cutover Methodology: Describe the methodology, processes, and procedures for the logical and physical cutover of the network.

3.16.9.2 Cutover Backout: Describe the methodology, processes and procedures if the site conversion fails.

3.16.9.3 Cutover Change Management: Describe the change management plan for transition.

3.16.9.4 Cutover Test Plan: Describe the test plan for cutting over each site.

3.16.10 Acceptance

The acceptance of the circuits is to ensure that bandwidth, latency, and throughput have been provisioned successfully.

3.16.10.1 Acceptance Methodology of Service Provider: Describe the methodology, processes and procedures for acceptance after the transition has been completed.

3.16.10.2 Default Acceptance: Absent mutual agreement between WVOT and the Service Provider, the acceptance process set forth below. The performance period shall begin on the installation date and shall end when the installed services have met the standard of performance for a period of thirty (30) consecutive days. The standard of performance shall be as proposed in the vendor's SLA. In the event the installed services do not meet the standard of performance during the initial thirty (30) consecutive days, the standard of performance test shall continue on a day-by-day basis until the standard of performance is met for a total of thirty (30) consecutive days. If the installed services does not meet the standard of performance after one hundred and twenty (120) calendar days, from the installation date, or the first day from the start of the

performance period if such is delayed by the State, the State may at its option request to terminate the order and seek alternative plans.

3.16.10.3 Acceptance Reports: Describe and provide sample of the reports that are provided to ensure that, after the transition, the network is operating within specified parameters.

3.16.10.4 Critical Acceptance Billing: The end users' obligation to pay shall begin only after the service is accepted.

3.16.11 Training

Describe the initial training methodology that is provided for network management, ordering, billing, and problem management. (i.e. train the trainer, web-based, on customer site, etc.)

3.16.12 Disentanglement

WVOT expects full, complete, and timely cooperation in disentangling the relationship in the event that the Agreement expires or terminates for any reason. In the event of expiration or termination, WVOT expects that the Service Provider shall, among other things: return all State data and documentation to WVOT, including but not limited to configuration information; transfer ownership of all CPE at no cost to WVOT (other than the payments already received by Service Provider under the Agreement); and, allow WVOT or the replacement provider(s) continued access to all billing, ordering, and trouble ticketing systems, and processes that have been employed in servicing the State, in accordance with methods and procedures to be agreed upon and established in the Agreement. In the event of the expiration or termination of the relationship between WVOT and the Service Provider, the Service Provider shall:

3.16.12.1 Disentanglement Approach and Process: The Vendor's Proposal should describe its specific approach to the Disentanglement process. Specifically, state the Vendor's proposed plan for Disentanglement, including key milestones and WVOT/Service Provider roles and responsibilities. Provide time estimates for the Disentanglement process based upon the number of locations detailed in this RFP.

3.16.12.2 Cooperation and Information: Service Provider is required to agree to cooperate with WVOT and/or the replacement provider(s) and otherwise take all reasonable steps to assist WVOT in effecting a smooth disentanglement upon the expiration or termination of the Agreement, including the provision of information necessary to enable the WVOT's personnel, or that of a replacement provider(s), to fully assume and continue without interruption the provision of Services. Vendor's proposal should state their understanding of this paragraph and provide any details, conditions or assumptions.

3.16.12.3 Continued Service: Agree not to: (i) interrupt the provision of Services to WVOT and its Customers or any obligations related to disentanglement, (ii) disable any hardware used to provide Services, or (iii) perform any other action that prevents, slows down, or reduces in any way the provision of Services to WVOT or WVOT's Customers until WVOT agrees that a satisfactory disentanglement has occurred. Vendor's proposal should state their acknowledgement and agreement to each of the subparts of this

paragraph and provide any details, conditions or assumptions.

Section 3.17 – Service Requirements & SLA(s)

3.17.1 Maintenance Requirements

The successful vendor should be responsible for the on-going maintenance of the MPLS Core and its Peripheral Edge Routers, Regional or Central Office based Ethernet Switches and all other Peripheral Edge devices as well as all circuits and services such as Hosted Voice Services, even those that may utilize a third-party to provide the "last mile". The successful Vendor should also be responsible for maintaining adequate bandwidth on the MPLS core and Peripheral Edges as well as the ability to increase circuit size and CoS in all regions to ensure adequate potential for rapid expansion as described in the SLA you submit.

Scheduled maintenance should occur on an advanced mutually agreed upon time table that has minimal to nominal impact to the existing agency or entity. The WVOT will then disseminate.

In the event of required emergency maintenance, the vendor should inform both the Help desk and appropriate WVOT TCS&B designee OR "as authorized" the Agency designee and receive verbal approval prior to working on the circuits or any infrastructure that may affect the traffic flowing across the MPLS and any and all circuits VPN(s), VRF(s) Etc.

3.17.2 Service Level Guarantee

The SLA's are broken into A: MPLS Core specific, B: Access Circuits, C: VoIP Services (meaning IP trunking and Hosted IP Voice Services) , and D: Internet Access, (If the Vendor offered internet Access as an Option), all are defined in the sections following. The Vendor should address each section in the body of this RFP and include a response to the mandates at a minimum and your comprehensive SLA/SLA(s) submitted as an attachment(s) to your RFP response.

The State reserves the right to negotiate the most advantageous SLA(s) with the apparent winning Vendor who by definition should have met all minimum requirements of our SLA(s), however if the State cannot negotiate favorable SLA's and associated penalties for failure to comply with the negotiated SLA(s) then the State reserves the right to negotiate with the second best value Vendor for favorable SLA(s) and corresponding penalties for non-compliance. State your understanding and acceptance of the above.

Force Majeure. The State of WV recognizes any delay in or failure of performance by the vendor will not be considered a breach of any SLA if and to the extent caused by events beyond its reasonable control, including, but not limited to, acts of God, embargoes, governmental restrictions, strikes, lockouts, work stoppages or other labor difficulties, riots, insurrection, wars, or other military action, acts of terrorism, civil disorders, rebellion, fires, floods, vandalism, or sabotage. No response necessary. However: we advise that the vendor to address in their attached SLA(s).

3.17.3 MPLS VPN Core Network :SLA "A", or Section "A" in single SLA

The Service Standards, provisions, and Remedies listed in this section refer to the Vendor's proposed MPLS VPN Network (MPLS domain), (CE to CE), section A, excluding Access Circuits. Remedies can include service credits, payments, or other consideration. Read and respond as directed.

Guarantees and Exclusions:

3.17.3.1 Guarantees: The Vendor should offer, in the SLA, Service Standard guarantees for the MPLS VPN Core Network (MPLS domain). The guarantees should include Availability, Latency, Jitter, Packet Delivery, and Outage Notification.

3.17.3.2 Exclusions: With respect to calculating Availability, any exclusions for scheduled maintenance, time lost waiting for premises access, or other reasons should be clearly detailed in the Vendor's proposal.

3.17.3.3 MPLS VPN (CE to CE) Network Minimum Service Standards Table:

Measure	Definition	Mandatory Service Standard
Availability	Percentage of time that the Vendor's MPLS VPN Network is available for use by WVOT and WVOT Customers. This is 100 - (outage minutes / monthly minutes). MPLS VPN Network outages are defined as a loss of ability to transmit IP packets, packet loss of 1% or more, or latency of 80 ms or greater on the MPLS VPN Network.	99.99%
Latency	Latency refers to the average time required (delay), in milliseconds, for one-way packet transmission from any Edge Router on the Vendor's MPLS VPN Network to any other Edge Router on the Vendor's MPLS VPN Network. Latency in Access Circuits is not included.	36 ms
Jitter	Jitter refers to the standard deviation of variation in Latency from packet to packet. For the purposes of this SLA, Jitter refers to transmissions across any portion of the Vendor's MPLS VPN Network, excluding Access Circuits.	< 5 ms
Packet Delivery	Packet Delivery is the proportion of packets transmitted from a sender that are received by the intended receiver.	99.5 %
Outage Notification Period	The Vendor will contact WVOT with notification of an outage within the Outage Notification Period for any service-affecting outage.	15 minutes

Availability:

3.17.3.4 Backbone Availability Required: It is required that the Vendor offer a Service Standard guarantee for Availability of the MPLS VPN Core Network of at least 99.99%, measured each month. MPLS VPN Core Network outages are defined as a loss of ability to transmit IP packets, packet loss of 1% or more, or latency of 80 ms or greater on the MPLS VPN Core Network.

3.17.3.5 Backbone Availability Preferred: It is desirable that the Vendor offer a Service Standard guarantee for Availability of at least 99.999% for the MPLS VPN Core

Network.

- 3.17.3.6 Backbone Availability Remedy:** It is required that the Vendor offer a remedy for failure to meet a monthly Service Standard guarantee for Availability of the MPLS VPN Core Network. .

Latency:

- 3.17.3.7 Backbone Latency Guarantee:** It is required that the Vendor offer a Service Standard guarantee for one-way latency of 36 ms or less, measured across any portion of the Vendor's proposed MPLS VPN Core Network to any other, edge to edge, not including Access Circuits or CPE.

- 3.17.3.8 Backbone Latency Remedy:** It is desired that the Vendor offer a remedy for failure to meet a monthly Service Standard guarantee for Latency on the MPLS VPN Core Network.

Jitter:

- 3.17.3.9 Backbone Jitter:** The Vendor should offer a Service Standard guarantee of a minimum of five (5) ms for Jitter across any part of the Vendor's MPLS VPN Core Network.

- 3.17.3.10 Preferred Backbone Jitter:** It is preferred that the Vendor offer a Service Standard Guarantee of better than five (5) ms for Jitter across any part of the Vendor's MPLS VPN Core Network. This excludes Access Circuits.

- 3.17.3.11 Backbone Jitter Remedy:** It is desired that the Vendor offer a remedy for failure to meet a monthly Service Standard guarantee for Jitter on the MPLS VPN Core Network.

Packet Delivery:

- 3.17.3.12 Backbone Packet Delivery:** It is required that the Vendor offer a Service Standard guarantee for Packet Delivery of 99.5 % with respect to the MPLS

VPN Core Network, from sender to receiver.

- 3.17.3.13 Preferred Backbone Packet Delivery:** It is preferred that the Vendor offer a Service Standard guarantee for Packet Delivery of 99.9% with respect to the MPLS VPN Core Network proposed.

- 3.17.3.14 Backbone Packet Delivery Remedy:** It is desired that the Vendor offer a remedy for failure to meet a monthly Service Standard guarantee for Packet Delivery on the MPLS VPN Core Network.

Outage Notification:

- 3.17.3.15 Outage Notification:** It is required that the Vendor provide a Service Standard guarantee of 15 minutes for notifying WVOT's Network Operation Center (NOC/Help Desk) by telephone of any service affecting outage on the MPLS VPN Core

Network. These outages are defined as a loss of ability to transmit IP packets, packet loss of 1% or more, or latency of 80 ms or greater on the MPLS VPN Core Network.

3.17.3.16 Preferred Outage Notification: It is preferred that the Vendor offer a Service Standard of 5 minutes for service affecting outages on the MPLS VPN Core Network.

3.17.3.17 Backbone Outage Notification Remedy: It is desired that the Vendor offer a remedy for failure to meet a monthly Service Standard guarantee for Outage Notification with respect to the MPLS VPN Core Network.

Additional Guarantees and Provisions:

3.17.3.18 Additional Guarantees: It is desirable that the Vendor offer additional Service Standard guarantees, provisions, and remedies with respect to the Vendor's MPLS VPN Core Network. These might include such measures as Mean Time to Repair (MTTR) or Maximum Service Affecting Outage Duration.

3.17.3.19 Chronic Outages and Missed Service Standards: The Vendor should offer provisions and remedies for chronic outages and chronic missed Service Standards.

3.17.3.20 The vendor should describe, in detail, their levels of service guarantee and remedies for outages in all of the SLA(s) or the appropriate section of the SLA or SLA(s) they are required to provide. The vendor's response should meet or exceed the minimum expectations required by the State of West Virginia's Public Service Commission (PSC). If a vendor fails to describe their service level or does not meet the PSC requirements, the State reserves the right to require the vendor to provide any information within one (1) business day. Failure on the vendor's part to provide this information may result in the vendor's quote to be disqualified from further evaluation. Any costs associated with the different levels of service guarantee should be identified in the Cost Proposal. The minimum guaranteed expectations required by the State of WV Public Service Commission should be included in the cost of the Access Circuits and base MPLS proposal at no additional costs.

3.17.4 Access Circuits Availability: SLA, B or Section B in single SLA

3.17.4.1 Availability is the total number of Hard Outage minutes in a calendar month for a specific State Connection, divided by the total number of minutes in a calendar month. Availability is comprised of the State's Access Router to the Vendor's MPLS Access to the core router.

3.17.4.2 Access Circuit Availability: It is required that the Vendor offer a Service Standard of 99.9% for access circuits.

3.17.4.3 Calculation. Availability is calculated once an alert or notification is received by the NOC, and is determined by the percentage of time that the Connection is available within a given calendar month. Monthly Network Availability (%) =:

$$1 - \left(\frac{\text{Total minutes of connection outage per month}}{\text{Days in month} \times 24 \text{ hours} \times 60 \text{ minutes}} \right) \times 100$$

3.17.4.4 Credit Structure. The credit is based on the number of minutes of down time independent of the actual percent availability calculation. The following tables contain the percentage availability translated into minutes of up time and downtime for the SLA.

Total Minutes In A Given Calendar Month	
Month In Days	Total Minutes
31 Day Month	44,640
30 Day Month	43,200
29 Day Month	41,760
28 Day Month	40,320

Availability % Translated to Minutes Up and Minutes Down		
Percentage by Days per Month	Minutes Up	Minutes Down
99.9% for 31 days	44,595	45
99.9% for 30 Days	43,157	43
99.9% for 29 Days	41,718	42
99.9% for 28 Days	40,280	40

Note: No SLA's apply to sites using DSL connectivity as the access methodology

Any Access circuit that falls below the 99.9% access circuit guarantee will receive a full Monthly Recurring Access Cost from the vendor for that location.

3.17.5 VoIP SLA or Section C in single SLA

3.17.5.1 Overview: The Vendor should support quality service on Voice over IP ("VoIP") by offering a performance Service Level Agreement (SLA) to the State for all locations that implement VoIP service using Internet Dedicated, or the MPLS transport services. The VoIP SLA is in lieu of, and takes precedence for VoIP users in each affected area, any other SLAs for Internet Dedicated service, or the MPLS. Performance standards in the SLA cover: Jitter, Latency, Packet Delivery, and Network Availability.

3.17.5.2 VoIP Jitter Service Level Agreement: Also known as delay variation, jitter is defined as the variation or difference in the end-to-end delay between received packets of an IP or packet stream. Jitter is usually caused by imperfections in hardware or software optimization or varying traffic conditions and loading. Excessive delay variation in packet streams usually results in additional packet loss which impacts voice quality.

3.17.5.2.1 The VoIP Jitter SLA requires that the vendor's contiguous Network monthly jitter performance will not exceed 1.0 millisecond between the transit backbone network routers ("Hub Routers").

3.17.5.3 Network Latency Service Level Agreement: The VoIP Latency SLA should provide that the Vendor's Network Latency performance will have a monthly average round-trip transmission of fifty-five (55) milliseconds or less between the backbone network routers provided by the vendor for access into the VoIP services.

3.17.5.4 Network Packet Delivery Service Level Agreement: The VoIP Packet Delivery SLA provides that the Vendor's monthly packet delivery rate will be 99.5 percent or greater for data delivery between the backbone network routers ("Hub Routers").

3.17.5.5 Network Availability Service Level Agreement: The VoIP Network Availability SLA should provide that the Vendor's Network will be available at least 99.9 percent of the time as measured on a monthly basis by trouble ticket time. The Network is considered not available for the number of minutes that a trouble ticket shows the Network was not available to the State of West Virginia. The unavailable time is started when the State opens a trouble ticket with the Customer Support Center. The unavailable time stops when the applicable Network or access circuit trouble has been resolved and the service is again available to the State. This should be measured in a proactive manner. Please describe your proactive capabilities.

This will not include unavailability resulting from:

- Network maintenance;
- Third-party circuits;
- Inappropriate State configuration change(s)
- State owned Premise Equipment including, but not limited to, State provided PBX, black phones, SIP phones, Quality of Service Box, firewalls, Router/modem and/or Analog/Ethernet Adapter;
- Acts or omissions of the State, or any use or user of the service that is authorized by State but outside the scope of State's service;
- Reasons of Force Majeure (as defined in the applicable underlying Service Level Guarantee).

3.17.6 Internet Access SLA

3.17.6.1 Availability: Service Availability SLA Scope. The Internet Provider's Service Level Agreement (SLA) should provide that the Internet access provided to the MPLS core will be available 99.99% of the time. The State of West Virginia should be credited for the pro-rated charges for one day of the Monthly Fee when the network availability falls below 99.99%.

3.17.6.2 Latency: Latency SLA Scope. The vendor's Latency SLA should provide for an average round-trip transmission of 55 milliseconds or less between provider's Internet access ports and their inter-regional transit backbone routers ("Hub Routers") in the contiguous U.S. The State of West Virginia should be credited for the pro-rated charges for one day of the Monthly Fee when Latency exceeds 55 milliseconds.

3.17.6.3 Network Packet Delivery Network Packet Delivery SLA Scope. The vendor should offer a provision for both a North American, and a Transatlantic Network Packet Delivery SLA. The North American and Transatlantic Network Packet Delivery SLA should provide for a monthly packet delivery of 99.5% or greater between the access point at the MPLS core and the Hub Routers in North America. If the vendor's Packet Delivery SLA in a calendar month is not met the State of West Virginia should be credited for the Internet Access charges for that month.

3.17.6.4 Denial of Service SLA Scope. The vendor will respond to Denial of Service attacks reported by the State within 15 minutes of the State opening a complete trouble ticket with the WVOT Service Desk. The State defines a Denial of Service attack as more than 95% bandwidth utilization. The State of West Virginia should be credit for the pro-rated charges for one day of the Monthly Fee when the vendor fails to respond to a Denial of Service attach that has been reported by the State of West Virginia.

3.17.6.5 SLA Scope – Network Outage: The Network Outage SLA should provide the State of West Virginia notification within 15 minutes after it is determined that Service is unavailable. The standard procedure will be to ping the State's router every five minutes. If the router does not respond after two consecutive five-minute ping cycles, the vendor will deem the Service unavailable and the State of West Virginia's point of contact will be notified by e-mail, phone or pager.

3.17.6.6 SLA Scope - Scheduled Maintenance: Scheduled Maintenance shall mean any maintenance that the vendor performs related to the State of West Virginia's Internet Access. The vendor should notify the State seven calendar days in advance. Notice of Scheduled Maintenance will be provided to the State's designated point of contact by email or pager. Upon receiving such notice, the State may request to have such maintenance postponed to a later date if agreed upon by the vendor and the State.

3.17.6.7 Network Jitter SLA Scope: Also known as delay variation, Jitter is defined as the variation or difference in the end-to-end delay between received packets of an IP or packet stream. Jitter is usually caused by imperfections in hardware or software optimization and varying traffic conditions and loading. Excessive delay variation in packet streams usually results in additional packet loss, which affects quality. The vendor's Network jitter performance will not exceed 1 millisecond.

3.18.3 Fixed Pricing

Fixed Pricing: WVOT requires that all prices be fixed during each one-year term of the Contract. The vendor will be expected to pass through any price decreases at the time the price decrease is announced.

3.18.4 Competitive Rates

3.18.4.1 Rates: WVOT requires that the pricing, rates and terms offered to WVOT during each one-year term of the Contract are at least as favorable as the pricing, rates and terms offered to Vendor's similarly situated customers. Describe Vendor's approach for keeping WVOT's pricing, rates and terms at least as favorable as those offered to

Vendor's other customers.

3.18.4.2 Competitive Market: WVOT requires that the pricing, rates and terms offered to WVOT during each one-year term of the Contract remains competitive with the pricing, rates and terms offered in the market. Describe how Vendor will keep pricing, rates and terms competitive.

3.19 Special Terms and Conditions:

3.19.1 Bid and Performance Bonds: Vendor will provide a bid bond in the amount of \$100,000.00.

3.19.2 Insurance Requirements: If applicable, the vendor will provide liability insurance according to State requirements. Insurance certificates are required prior to award but are not required at the time of bid.

3.19.3 License Requirements: The vendor will be responsible for obtaining Workers Compensation, a Contractor's License, etc. in compliance with the laws of the State of West Virginia.

3.19.4 Litigation Bond: Each bidder responding to this request for proposal should submit a litigation bond in the amount of \$500,000, made payable to the State of West Virginia Purchasing Division. This bond should be issued by a surety company licensed to do business in the State of West Virginia with the West Virginia Insurance Commission, on a form acceptable to the State. The only acceptable alternate forms of the bond are (1) a company certified check (not an individual) and (2) a cashier's check.

The purpose of the litigation bond is to discourage unwarranted or frivolous law suits pertaining to the award of a contract from this request for proposal. Secondly, the bond provides a mechanism for the State of West Virginia, the Agency, its officers, employees, or agents thereof to recover damages, including (but not limited to) attorney fees, loss of revenue, loss of grants or portions thereof, penalties imposed by the federal government and travel expenses which may result from any such litigation. A claim against the bond will be made if the vendor contests the award in a court of competent jurisdiction and the grounds are found to be unwarranted or frivolous based on the facts of the award or applicable law as determined by the court.

Failure to submit an appropriate bond, or alternate bond with the proposal at the time of bid opening, constitutes a binding agreement between the vendor and the State, indicating that the vendor waives all rights of protest, including, but not limited to: competitor's bids, the evaluation of the bid responses, and the contract award to the apparent successful vendor.

The bond or alternate form should remain in effect for two years from the proposal submission date. After six (6) months, each vendor may request, and the State anticipates granting, a release of the litigation bond. However, the vendor will be required to provide a release (signed and notarized in a form that is acceptable to the State) prior to release of the bond which states that the vendor will not sue.

AGREEMENT ADDENDUM

WV-96
REV. 5/94

In the event of conflict between this addendum and the agreement, this addendum shall control:

1. **ARBITRATION** – Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
2. **HOLD HARMLESS** – Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
3. **GOVERNING LAW** – The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
4. **TAXES** – Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
5. **PAYMENT** – Any reference to prepayment are deleted. Payment will be in arrears.
6. **INTEREST** – Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
7. **RECOUPMENT** – Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
8. **FISCAL YEAR FUNDING** – Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
9. **STATUS OF LIMITATIONS** – Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
10. **SIMILAR SERVICES** – Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
11. **ATTORNEY FEES** – The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
12. **ASSIGNMENT** – Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
13. **LIMITATION OF LIABILITY** – The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
14. **RIGHT TO TERMINATE** – Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
15. **TERMINATION CHARGES** – Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
16. **RENEWAL** – Any references to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
17. **INSURANCE** – Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
18. **RIGHT TO NOTICE** – Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
19. **ACCELERATION** – Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
20. **AMENDMENTS** – All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:
STATE OF WEST VIRGINIA

VERIZON BUSINESS NETWORK SERVICES INC. on behalf of
MCI COMMUNICATIONS SERVICES, INC. d/b/a VERIZON BUSINESS SERVICES and
VERIZON WEST VIRGINIA INC.

Spending Unit: _____

Signed: James A. Kirby III
General Counsel
Title: Department of Administration

Signed: Suliman Nessami
Title: V P P C M

Date: 8/1/07

Date: 7/26/07



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

Purchase Order

PURCHASE ORDER NO.
 MPLS07

PAGE:
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BLANKS RELEASE
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CHANGE ORDER
 []

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1410 MACCORKLE AVE SE
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FEIN/ISSN		FUND	
08/01/2007		NET 30		470751768			
SHIP VIA		F.O.B.		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO.	UNIT PRICE	AMOUNT		
DELIVERY DATE	CATNO	CATNO	ITEM NUMBER				
RECEIPT TICKET FOR PURCHASE ORDER:				MPLS07			
LINE	CATNO	ITEM NUMBER	DESCRIPTION		QTY	DATE	
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL				
SIGNATURE _____			DATE _____				
							TOTAL

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



State of West Virginia
 Department of Administration
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Purchase Order

PURCHASE ORDER NO
 MPLS07

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QUANTITY
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 BY ORDER

*611101629 304-344-6700
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 1410 MACCORKLE AVE SE
 CHARLESTON WV 25314

DATE PRINTED	TERMS OF SALE	FUND
03/26/2008	NET 30	470751768
SHE/WB	FILE	ACCOUNT NUMBER
BEST WAY	DESTINATION	MUL-MUL
QUANTITY	DESCRIPTION	AMOUNT
0001	CHANGE ORDER #01 TO ADD MULTILINK FRAME RELAY AND CIR RATES. SEE ATTACHED. *****NO ADDITIONAL CHANGES*****	
	PREVIOUS PO TOTAL==>	00000
	PO NET CHANGE (+)==>	OPEN END
		OPEN END
		TOTAL

PURCHASING DIVISION
 CERTIFIED ENCUMBERED

MAR 28 2008

Beverly Toler

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

RON PRICE

304-558-0492

BY:

PURCHASING DIVISION AUTHORIZED SIGNATURE

Dwayne Wayfield

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

GENERAL TERMS & CONDITIONS
PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all Federal, State and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will: {a} conform to the specifications, drawings, samples or other description furnished or specified by the Buyer {b} be merchantable and fit for the purpose intended and/or {c} be free from defect in material and workmanship.
8. **CANCELLATION:** The Director or Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
10. **LATE PAYMENTS:** Payments may only be made after the delivery of goods or services. Interest may be paid on late payments in accordance with the *West Virginia Code*.
11. **TAXES:** The State of West Virginia is exempt from Federal and State taxes and will not pay or reimburse such taxes.
12. **RENEWAL:** Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.



Multilink Frame Relay Pricing and CIR pricing.

Element Name:		
Multilink Frame Relay option per DS1	NA	\$20.00
Committed Information Rate (CIR), per PVC		
64 Kbps	N/A	\$2.00
128 Kbps	N/A	\$4.00
256 Kbps	N/A	\$8.00
512 Kbps	N/A	\$16.00
768 Kbps	N/A	\$24.00
1.152 Mbps	N/A	\$36.00
1.536 Mbps	N/A	\$46.00
2 Mbps	N/A	\$50.00
3 Mbps	N/A	\$75.00
4 Mbps	N/A	\$100.00
5 Mbps	N/A	\$125.00
6 Mbps	N/A	\$150.00
7 Mbps	N/A	\$175.00
8 Mbps	N/A	\$200.00
9 Mbps	N/A	\$225.00
10 Mbps	N/A	\$250.00
11 Mbps	N/A	\$275.00
12 Mbps	N/A	\$300.00
13 Mbps	N/A	\$325.00
14 Mbps	N/A	\$350.00
15 Mbps	N/A	\$375.00
16 Mbps	N/A	\$400.00
17 Mbps	N/A	\$425.00
18 Mbps	N/A	\$450.00
19 Mbps	N/A	\$475.00
20 Mbps	N/A	\$500.00
21 Mbps	N/A	\$525.00
22 Mbps	N/A	\$550.00

First PVC for Multilink Frame circuit would be at no charge. Additional PVC's would be charged at the above rates.



Sandra Hawkins
Verizon Business
1410 MacCorkle Avenue, SE
Charleston, WV 25314

March 3, 2008

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

While developing pricing for MPLS07 Verizon Business utilized the pricing from the original DATA05 contract products and pricing. Multilink Frame Relay was not added to DATA 05 until May 21, 2006, and was omitted from MPLS07. DATA05 has one renewal remaining and the Counties used MPLS07 on their 470's for e-Rate.

Multilink Frame Relay enhances the existing network and bridges the gap for locations with requirements that exceed T1 capacity, but cannot justify the step to a DS-3. Multilink Frame Relay offers the State a cost effective and smoother migration to higher bandwidths, as well as enhanced network efficiencies.

Attached you will find the pricing components of Multilink Frame Relay. The CIR charges are also included on the pricing table which will better clarify PVC charges for MPLS07.

Please call me on 304 344 6700, with questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Client Account Manager



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

Purchase Order

RECHASE ORDER NO.
 MPLS07

PAGE

WARRANTY PERIOD
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CHANGE ORDER
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*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1410 MACCORKLE AVE SE
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		GENESEE		FUND	
03/26/2008		NET 30		470751768			
SHIP VIA		FROM		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UIC	VENDOR/ITEM	UNIT PRICE	AMOUNT		
DELIVER DATE	CATNO	CATNO	ITEM NUMBER				
			RECEIPT TICKET FOR PURCHASE ORDER:		MPLS07		
LINE CATNO	ITEM NUMBER		DESCRIPTION		QTY	DATE	
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL				
			SIGNATURE _____			DATE _____	
							TOTAL

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 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



State of West Virginia
 Department of Administration
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Purchase Order

PURCHASE ORDER NO:
MPLS07

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DATE PRINTED		TERMS OF SALE		PERMISSION		FUND	
09/12/2008		NET 30		470751768			
SHIP VIA		F.O.B.		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO.		UNIT PRICE	AMOUNT	
	DELIVERY DATE	CAT NO.	ITEM NUMBER				
CHANGE ORDER #02							
TO ADD THE PRICE BREAKDOWN OF BAND WIDTH FOR POINT T-1 CIRCUITS.							
EFFECTIVE: SEPTEMBER 2, 2008							
*****NO ADDITIONAL CHANGES*****							
0001		LS			.00000		
					PREVIOUS PO TOTAL ==>	OPEN END	
					PO NET CHANGE (+) ==>		
						OPEN END	
						TOTAL	

PURCHASING DIVISION
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SEP 16 2008

Beverly Toler

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9/12/08

RON PRICE

304-558-0492

BY

PURCHASING DIVISION AUTHORIZED SIGNATURE

APPROVED FOR
[Signature]
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 ASSISTANT ATTORNEY GENERAL

**GENERAL TERMS & CONDITIONS
PURCHASE ORDER/CONTRACT**

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- ~~4. **COMPLIANCE:** Seller shall comply with all Federal, State and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.~~
5. **MODIFICATIONS:** This writing is the parties final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will: (a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
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15. **West Virginia Alcohol & Drug-Free Workplace Act:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."



Sandra Hawkins
Verizon Business
1410 MacCorkle Avenue, SE
Charleston, WV 25314

September 2, 2008

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

~~As requested, Verizon Business has attached the additional pricing breakdown in bandwidth for point to point T-1 circuits.~~

As one of our most important customers, we have responded to your request in a priority manner and that commitment is ongoing. Thank you again for the opportunity to provide your telecommunication needs. Please feel free to contact me at (304)344-6700 with any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Sandra K. Hawkins". The signature is written in a cursive style with a large, prominent "S" and "H".

Sandra K. Hawkins
Senior Client Account Manager
(attachment)

REC'D SEP 08 2008

State of WV MPLS Contract Adds

Charleston/Clarksburg Clear Channel DS-1	Each \$ 666.20
--	---------------------------------

Clarksburg/Martinsburg Clear Channel DS-1	\$ 812.40
---	------------------

Charleston/Martinsburg Clear Channel DS-1	\$ 840.20
---	------------------

Description	Charges
Charleston (DS-1 Local Loop)	\$172.00
Clarksburg (DS-1 Local Loop)	\$189.20
Martinsburg (DS-1 Local Loop)	\$318.20
Charleston/Clarksburg (DS -1 Transport)	\$305.00
Charleston/Martinsburg (DS-1 Transport)	\$350.00
Clarksburg/Martinsburg (DS-1 Transport)	\$305.00



State of West Virginia
 Department of Administration
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Purchase Order

PURCHASE ORDER NO.
 MPLS07

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LINE-ITEMS
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*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
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 BY ORDER

DATE PRINTED	TERMS OF SALE	FERENCE	FLUID
01/23/2009	NET 30	170751768	
SHIP VIA	FOE	FREIGHT TERMS	ACCOUNT NUMBER
BEST WAY	DESTINATION	PREPAID	MUL-MUL
QTY	QUANTITY	UOE	VENDOR ITEM NO.
DELIVERY DATE	CAT NO	REQ NUMBER	UNIT PRICE
CHANGE ORDER #03			
1. TO REMOVE DISCONTINUED ITEMS AND ADD ADDITIONAL VOIP PHONES AND PRICING. SEE ATTACHED. EFFECTIVE DATE: DECEMBER 3, 2008			
2. TO RENEW THE ORIGINAL CONTRACT ACCORDING TO ALL TERMS, CONDITIONS, PRICES AND SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT INCLUDING ALL AUTHORIZED CHANGE ORDERS. EFFECTIVE DATE OF RENEWAL: 07/01/2009 THROUGH 06/30/2011 RENEWALS REMAINING: 2			
***** NO ADDITIONAL CHANGES *****			
		PREVIOUS PO TOTAL==>	OPEN END
		PO NET CHANGE (+)==>	
			PURCHASING DIVISION CERTIFIED ENCUMBERED JAN 26 2009 <i>Beverly Toler</i>
			OPEN END
			TOTAL

IF APPROVAL AS TO-FORMS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

1/23/09

APPROVED FOR
Sangee Wayfield

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY

RON PRICE

304-558-0492

PURCHASING DIVISION AUTHORIZED SIGNATURE

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all Federal, State and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will: (a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
10. **LATE PAYMENTS:** Payments may only be made after the delivery of goods or services. Interest may be paid on late payments in accordance with the *West Virginia Code*.
11. **TAXES:** The State of West Virginia is exempt from Federal and State taxes and will not pay or reimburse such taxes.
12. **RENEWAL:** Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."



Sandra Hawkins
Verizon Business
1410 MacCorkle Avenue, SE
Charleston, WV 25314

December 3, 2008

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

Attached you will find the pricing components for the VoIP phones. The IP600 and IP301 (highlighted in yellow) are already discontinued as of December 3rd, 2008, with the IP501 to be discontinued in 2009. The IP320, IP550, IP650, IP4000, and IP6000 are Polycom replacements (highlighted in green) available effective December 3rd, 2008. Verizon is asking the State of West Virginia to issue a change order effective December 3rd, 2008 to reflect the correct VoIP phones offered by Polycom so the West Virginia State Police may order additional phones that are needed.

The current contract became effective on August 10, 2007 to June 30, 2009, with an option to renew for three (3) additional two (2) year periods. With schools and libraries filing their 470's for 2009/2010 funding year Verizon is asking the State of WV to exercise one of the renewal options to accommodate the E-rate filings with the contract effective date of 7/1/09.

Please call me on 304 344 6700, with questions or concerns.

Sincerely,

Sandra K. Hawkins
Senior Client Account Manager

RECEIVED

2009 JAN -7 PM 2:54

WV PURCHASING
DIVISION

RECD JAN 07 2009

APPENDIX E – PRICING FOR ALL VENDOR-PROVIDE OPTIONS

This appendix should provide pricing for any options that have an additional cost associated with them, as listed in the body of the technical response.
(THIS APPENDIX, TOGETHER WITH APPENDICES B AND D, SHOULD BE SEPARATED FROM THE TECHNICAL PORTION OF VENDOR RESPONSES AND BE INCLUDED IN VENDOR'S SEALED, COST PORTION OF THEIR RESPONSE TO THIS RFP.)

VoIP CPE Pricing			
Cisco 3745 DS3		\$13,120.00	
Cisco 2811 (1-PRI)		\$5,690.00	
Adtran 908 E 1-T1, 8FXS, 1PRI		\$1,858.00	
Adtran 924 IDA		\$2,504.00	
Cisco Pkx 501(1-26)		\$637.00	
Cisco Pkx 506 (26-50)		\$893.00	
Cisco Pkx 515 (51+)		\$2,874.00	
Cisco 3550 (24 port POE)		\$2,237.00	
Mediatrix 1104		\$328.00	
Mediatrix 1124		\$1,772.00	
			Marked for Dis. Date Not Established
Polycom IP601		\$266.00	
Polycom Expansion Module		\$199.00	
Polycom IP601		\$266.00	Already Dis.
Polycom IP501		\$180.00	Dis 2009
Polycom IP601		\$266.00	Already Dis.
Cisco 7960G		\$372.00	
Cisco 7940G		\$312.00	
Polycom SoundStation IP320		\$294.00	
Polycom 501/501P/501P-CE		\$69.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	
Polycom 500/500P/500P-CE		\$57.00	



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

Purchase Order

ORDER NUMBER
 MPLS07

PAGE
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QUANTITY
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CORRECT PURCHASE ORDER NUMBER
 MUST APPEAR ON ALL PACKAGES,
 INVOICES, AND SHIPPING PAPERS.
 QUESTIONS CONCERNING THIS PUR-
 CHASE ORDER SHOULD BE DIRECTED
 TO THE BUYER AS NOTED BELOW.

ORDER TYPE
 3

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	FEIN/SEN	FUND
01/23/2009	NET 30	470751768	

SHIP VIA	T.O.B.	FREIGHT TERMS	ACCOUNT NUMBER
BEST WAY	DESTINATION	PREPAID	MUL-MUL

LINE	QUANTITY	UNIT PRICE	AMOUNT
DELIVERY DATE	CATNO	ITEM NUMBER	
RECEIPT TICKET FOR PURCHASE ORDER: MPLS07			
LINE	CATNO	ITEM NUMBER	DESCRIPTION
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL)
SIGNATURE _____		DATE _____	

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

TOTAL

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE
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 QUESTIONS CONCERNING THIS PUR-
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 TO THE BUYER AS NOTED BELOW.

CHANGE ORDER
4

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

AGENCY COPY

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FEB/SSN		FUND	
03/27/2009		NET 30		470751768			
SHIP VIA		FOB		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO	UNIT PRICE	AMOUNT		
DELIVERY DATE	SAT NO	ITEM NUMBER					
CHANGE ORDER #04							
TO LOWER THE PIP DEDICATED STANDARD PORT 3.072 MBPS RATE. SEE ATTACHED.							
EFFECTIVE DATE: FEBRUARY 20, 2009							
***** NO ADDITIONAL CHANGES *****							
PURCHASING DIVISION CERTIFIED ENCUMBERED MAR 31 2009 <i>Beverly Toler</i>							
PREVIOUS PO TOTAL==>				OPEN END			
PO NET CHANGE (+)==>							

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

3/27/09

OPEN END
 TOTAL

Sang & Wayfield

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY *Ron Price* 304-558-0492
 PURCHASING DIVISION AUTHORIZED SIGNATURE

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all Federal, State and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will: (a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
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13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
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Sandra Hawkins
Verizon Business
1500 MacCorkle Avenue, SE
Charleston, WV 25314

February 20, 2009

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

Verizon has secured a better rate for the PIP Dedicated Standard Port 3.072 Mbps and would like to request a change order to MPLS07 to reflect the lower rate. The old rate was \$551.80 and the new rate is \$400.00

Thank you again for the opportunity to provide your telecommunication needs. Please feel free to contact me at (304)344-6700 with any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Senior Client Account Manager
(attachment)

REC'D FEB 27 2009



APPENDIX D - ALTERNATIVE ACCESS OFFERINGS PRICING
 (THIS APPENDIX, TOGETHER WITH APPENDICES B AND E, SHOULD BE
 SEPARATED FROM THE TECHNICAL PORTION OF VENDOR RESPONSES AND BE
 INCLUDED IN VENDOR'S SEALED, COST PORTION OF THEIR RESPONSE TO THIS
 RFP.)

Description of Offering	PAGE # AND/OR RFP SECTION	NRC	Monthly Unit Cost
30.928 mb			\$2,676.24
31.488 mb			\$2,724.76
31.562 mb			\$2,730.21
31.880 mb			\$2,741.34
32.480 mb			\$2,810.43
33.792 mb			\$2,924.04
34.368 mb			\$2,974.02
38 mb			\$3,115.14
38.8 mb			\$3,184.44
38.884 mb			\$3,189.90
37.072 mb			\$3,207.96
39.552 mb			\$3,422.68
39.789 mb			\$3,441.27
39.936 mb			\$3,455.76
40 mb			\$3,459.98
40.256 mb			\$3,464.16
41.444 mb			\$3,468.38
43.008 mb			\$3,544.38
43.2 mb			\$3,560.13
44.992 mb			\$3,707.97
PIP Dedicated Standard Port	3.1.6.1 3.1.7.1 & 3.1.7.4		
64 Kbps			\$39.00
128 Kbps			\$68.80
256 Kbps			\$110.80
384 Kbps			\$143.00
512 Kbps			\$175.40
768 Kbps			\$219.60
Ethernet 1 Mbps			\$270.40
1.024 Mbps			\$270.40
1.536 Mbps			\$200.00
Ethernet 2 Mbps			\$500.00
Ethernet 3 Mbps			\$561.80
3.072 Mbps NEW RATE			\$400.00
Ethernet 4 Mbps			\$635.40
4.608 Mbps			\$677.20
Ethernet 5 Mbps			\$700.00
Ethernet 6 Mbps			\$735.40
6.144 Mbps			\$735.40
Ethernet 7 Mbps			\$770.40



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

Purchase Order

PURCHASE ORDER NO:
MPLS07

PAGE

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CORRECT PURCHASE ORDER NUMBER MUST APPEAR ON ALL PACKAGES, INVOICES, AND SHIPPING PAPERS. QUESTIONS CONCERNING THIS PURCHASE ORDER SHOULD BE DIRECTED TO THE BUYER AS NOTED BELOW.

CHANGE ORDER
 4

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER

DATE PRINTED		TERMS OF SALE		FEINSEN		FUND	
03/27/2009		NET 30		470751768			
SHIP VIA		FOOB		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO	UNIT PRICE	AMOUNT		
DELIVERY DATE	CATNO	ITEM NUMBER					
			RECEIPT TICKET FOR PURCHASE ORDER:		MPLS07		
0001		205-18	MULTI PROTOCOL LABEL SWITCHING (MPL		_____	_____	_____
			SIGNATURE _____		DATE _____		
							TOTAL

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE
1

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CHANGE ORDER
5

CORRECT PURCHASE ORDER NUMBER
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 QUESTIONS CONCERNING THIS PUR-
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AGENCY COPY

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	FEINISSN	FUND		
07/23/2009	NET 30	470751768			
SHIP VIA	FOB	FREIGHT TERMS	ACCOUNT NUMBER		
BEST WAY	DESTINATION	PREPAID	MUL-MUL		
LINE	QUANTITY	UOP	VENDOR ITEM NO.	UNIT PRICE	AMOUNT
DELIVERY DATE	CAT. NO.	ITEM NUMBER			
0001	12/21/2006	LS	205-18	00000	
			CHANGE ORDER #05 TO ADD TWO PRICING COMPONENTS TO THE CONTRACT: EXPEDITE FEE - \$1500.00 DMARC EXTENSION - \$150.00 *****NO OTHER CHANGES*****		
				PURCHASING DIVISION CERTIFIED ENCUMBERED JUL 24 2009 <i>Beverly Tolon</i>	
				PREVIOUS PO TOTAL==> OPEN END PO NET CHANGE (+)==>	
IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE <input checked="" type="checkbox"/>				OPEN END	
				TOTAL	

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE 7/23/09

Sandy E. Wayfield

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY *RON PRITCH* 304-558-0492
 PURCHASING DIVISION AUTHORIZED SIGNATURE

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



Sandra Hawkins
Verizon Business
1600 MacCorkle Avenue, SE
Charleston, WV 25314

July 10, 2009

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

Enclosed you will find the pricing components for the expedite fee and extending DMARC's as requested by the State of West Virginia:

Expedite Fee - \$1,500.00
DMARC extension - \$150.00

The "in effect date" is July 7th, 2009. Please call me on 304 344 6700, with questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Sandra K. Hawkins". The signature is written in a cursive style with a large initial "S".

Sandra K. Hawkins
Senior Client Account Manager



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE

BANK'S REFERENCE
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CORRECT PURCHASE ORDER NUMBER
 MUST APPEAR ON ALL PACKAGES,
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 QUESTIONS CONCERNING THIS PUR-
 CHASE ORDER SHOULD BE DIRECTED
 TO THE BUYER AS NOTED BELOW

CHANGE ORDER
5

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FEIN/ASN		FUND		
07/23/2009		NET 30		470751768				
SHIP VIA		FOB		FREIGHT TERMS		ACCOUNT NUMBER		
BEST WAY		DESTINATION		PREPAID		MUL-MUL		
LINE	QUANTITY	UOP	VENDOR ITEM NO.		UNIT PRICE		AMOUNT	
	DELIVERY DATE	CAT NO.	ITEM NUMBER					
RECEIPT TICKET FOR PURCHASE ORDER:							MPLS07	
LINE	CATNO	ITEM NUMBER	DESCRIPTION				QTY	DATE
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL				_____	_____
SIGNATURE _____			DATE _____					
							TOTAL	

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE
1

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CHANGE ORDER
6

CORRECT PURCHASE ORDER NUMBER
 MUST APPEAR ON ALL PACKAGES,
 INVOICES, AND SHIPPING PAPERS.
 QUESTIONS CONCERNING THIS PUR-
 CHASE ORDER SHOULD BE DIRECTED
 TO THE BUYER AS NOTED BELOW.

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

AGENCY COPY

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	FINESSE	FOND
04/16/2010	NET 30	470751768	
SHIP VIA	FOUR	FREIGHT TERMS	ACCOUNT NUMBER
DEST. WAY	DESTINATION	PREPAID	MUL.-MUL.
QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
CHANGE ORDER #06			
TO PROVIDE A REDUCED RATE FOR THE ATTACHED PIP DEDICATED STANDARD PORT CHARGES AS REFERENCED IN APPENDIX D.			
EFFECTIVE DATE: 03/08/2010			
***** NO ADDITIONAL CHANGES *****			
PREVIOUS PO TOTAL==>		OPEN END	
PO NET CHANGE (+)==>			
IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE <input checked="" type="checkbox"/>			OPEN END

PURCHASING DIVISION
 CERTIFIED ENCUMBERED

APR 19 2010

Kirkaly, D. H.

Samuel Wayfield

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY RON PRICE 304-558-0492
 PURCHASING DIVISION AUTHORIZED SIGNATURE

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all federal, state and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties' final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will:
(a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
10. **LATE PAYMENTS:** Payments may only be made after the delivery of goods or services. Interest may be paid on late payments in accordance with the *West Virginia Code*.
11. **TAXES:** The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
12. **RENEWAL:** Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
16. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.



Sandra Hawkins
Verizon Business
1500 MacCorkle Avenue, SE
Charleston, WV 25314

March 8, 2010

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

Dear Mr. Dunlap:

Verizon has secured a better rate for several PIP Dedicated Standard Port charges and would like to request a change order to MPLS07 to reflect the lower rate. Please see the attached outlining the current rate and the proposed lower rate referenced in Appendix D - Alternative Access Offerings Pricing PIP Dedicated Standard Port.

Thank you again for the opportunity to provide your telecommunication needs. Please feel free to contact me at (304)344-6700 with any questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Senior Client Account Manager
(attachment)

RECD MAR 16 2010



VBS 2		
PIP Ethernet Port Speeds	Current Rate	New Rate
200 MB	\$11,427.60	\$4,800.00
300 MB	\$12,386.00	\$6,900.00
400 MB	\$13,492.00	\$8,800.00
500 MB	\$14,583.00	\$10,000.00
600 MB	\$17,062.20	\$11,400.00
700 MB	\$18,415.20	\$12,600.00
800 MB	\$19,389.20	\$13,600.00
900 MB	\$20,363.00	\$14,400.00
1 GIG	\$22,926.60	\$15,000.00
Standard Pip Port Speeds		
622.08 MB	\$12,440.00	\$11,680.00

NRC will be per terms and conditions of existing agreement.



- Existing Verizon Business terms and conditions apply.



Sandra Hawkins
Verizon Business
1500 MacCorkle Avenue, SE
Charleston, WV 25314

March 8, 2010

Mr. John Dunlap
State of West Virginia
Office of Technology
One Davis Square
Charleston, WV 25305

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Sincerely,

A handwritten signature in cursive script that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Senior Client Account Manager
(attachment)

REC'D MAR 16 2010

State of West Virginia
Purchasing Division



PURCHASE REQUISITION

Requisition No. MPLS07	Buyer 42	Requisition Date 03-17-10
Agency/Invoice To: ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER	TEAM Code _____	WVFIMS Document # OPEN-END
Agency/Ship To: ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER	TEAM Code _____	Suggested Vendors: 1. 2. 3. <i>Additional Vendors on Reverse Side</i>
This Section Only For: Releases, Direct Purchases, Emergency Purchases and Agreements Vendor Name and Address: VERIZON BUSINESS SERVICES 1500 MACCORKLE AVENUE SE, ROOM 100 CHARLESTON, WV 25314 304-344-6700		PURCHASING DIVISION'S USE ONLY Commodity Code: _____ Instructions: _____
WVFIMS Vendor #	TEAM Vendor # *611101629	
Terms	F.O.B.	

Item No.	Quantity	Description	Unit Price	Amount
1		CHANGE ORDER # 6 <i>Type of Purchase</i> SEE ATTACHED SPECIFICATIONS. EFFECTIVE DATE: MARCH 16, 2010		

Authorized Signature _____
 Title **CHIEF FINANCIAL OFFICER**
 Telephone **304-558-5472**

Total Estimated Value of this Requisition: **OPEN-END**
 Maximum Budgeted Amount: **OPEN-END**

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Verizon Business Network Services Inc. on behalf of Verizon Select Services Inc.

Vendor's Name: _____

Authorized Signature: Marsha K. Harrell Date: 2/22/10

State of Ms.

Marsha K Harrell

Senior Consultant

Pricing/Contract Management

County of Warren, to-wit:

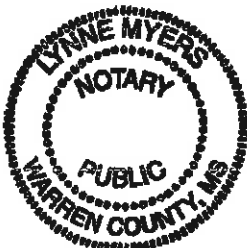
Taken, subscribed, and sworn to before me this 22 day of February, 2010.

My Commission expires 4/24/10, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC

Lynne Myers



Notary Public State of Mississippi
At Large
My Commission Expires
April 24, 2010
BONDED THRU
HEIDEN, BROOKS & GARLAND, INC.



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

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CHANGE ORDER
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 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

SEE REVERSE SIDE FOR
 TERMS AND CONDITIONS

*611101629 304-344-6700
 VERIZON BUSINESS SVCS
 1500 MACCORKLE AVE SE
 ROOM 100
 CHARLESTON WV 25314

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FUND	
04/16/2010		NET 30		470751768	
SHIP VIA		T.O.B.		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID MUL-MUL	
LINE	QUANTITY	UNIT	VENDOR ITEM NO	UNIT PRICE	AMOUNT
DELIVERY DATE	CAT NO	ITEM NUMBER			
			RECEIPT TICKET FOR PURCHASE ORDER:		MPLS07
LINE	CATNO	ITEM NUMBER	DESCRIPTION	QTY	DATE
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL		
			SIGNATURE _____	DATE _____	
					TOTAL

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

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 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



State of West Virginia
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AGENCY COPY

*611101629 304-356-3395
 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE SE STE 101
 CHARLESTON WV 25304

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED 11/10/2010	TERMS OF SALE NET 30	FUNDING 470751768	FUND
SHIP VIA	FOB	PRICING TERMS PREPAID	ACCOUNT NUMBER MJL-MUL

LINE	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
CHANGE ORDER #07					
TO PROVIDE UPDATE, NAME CHANGE AND PRICE REDUCTION.					
1. MCI COMMUNICATIONS SERVICES, INC D/B/A VERIZON BUSINESS SERVICES, PROVIDES HOSTED IP CENTREX AND PRIVATE IP SERVICES.					
2. VERIZON WEST VIRGINIA INC. NOW IS AN INDIRECT SUBSIDIARY OF FRONTIER COMMUNICATIONS CORP. AND HAS BEEN NAMED FRONTIER WEST VIRGINIA INC.					
3. FRONTIER IS LOWERING EXISTING SWITCHED ETHERNET SERVICE (A.K.A. TRANSPARENT LAN SERVICE OR ELAN) PRICING ON THE EXISTING MPLS07 CONTRACT FOR 10MBPS, 100MBPS AND 1000MBPS SPEEDS.					
PREVIOUS PO TOTAL==>				OPEN	END
PO NET CHANGE (+)==>					

PURCHASING DIVISION
 CERTIFIED ENCUMBERED
 NOV 15 2010
Beverly Toler

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE *R M/10/10*

Dwayne Wayfield
 APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BUYER 41 304-558-0492
[Signature]
 PURCHASING DIVISION AUTHORIZED SIGNATURE

OPEN END

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

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16. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
17. **ANTITRUST:** In accepting this purchase order or signing this contract with any agency for the State of West Virginia, the vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to vendor. Vendor certifies that this purchase order or contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law. Vendor further certifies that this purchase order or contract is in all respects fair and without collusion or fraud.



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

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CHANGE ORDER
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ALL STATE AGENCIES
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*611101629 304-356-3395
 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE SE STE 101
 CHARLESTON WV 25304

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
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DATE REPLIED	TERMS OF SALE	GEN/SSN	FUND
11/10/2010	NET 30	470751768	
SHP/WA	FOB	FREIGHT/TERMS	ACCOUNT NUMBER
BEST WAY	DESTINATION	PREPAID	MUL-MUL
LINE	QUANTITY	SHIP DATE	UNIT PRICE
THE PRICING WILL BE REDUCED AS FOLLOWS:			
10MBPS BASIC ACCESS LINE WILL BE REDUCED FROM: \$885 TO \$575.			
100MBPS BASIC ACCESS LINE WILL BE REDUCED FROM \$1,600 TO \$1,505.			
1000MBPS (GIGE) BASIC ACCESS LINE WILL BE REDUCED FROM: \$2,650 TO \$2,500.			
EFFECTIVE DATE: OCTOBER 12, 2010			
***** NO ADDITIONAL CHANGES *****			
0001	LS	205-18	.00000
12/21/2006 MULTI PROTOCOL LABEL SWITCHING (MPLS) VIRTUAL			
			TOTAL

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE

APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



October 12th, 2010.

John Dunlap
State of West Virginia
Office of Technology
1900 Kanawha Blvd E
Charleston, WV 25304

Re: MPLS07

Dear Mr. Dunlap:

We would like to update our letter to you delivered September 21st, 2010 by informing you that with the completion of the transaction under which Frontier Communications Corporation acquired control of Verizon West Virginia Inc., effective July 1, 2010, Verizon West Virginia Inc. now is an indirect subsidiary of Frontier Communications Corporation and has been renamed Frontier West Virginia Inc.

Therefore, to the extent necessary under State requirements, we are requesting a change order to update the name of Verizon West Virginia Inc. on the MPLS07 contract to its new name, Frontier West Virginia Inc. MCI Communications Services, Inc., d/b/a Verizon Business Services (Verizon Business) will remain on the contract as well.

In addition, Frontier is lowering the existing Switched Ethernet Service (aka, Transparent LAN Service or ELAN) pricing on the existing MPLS07 contract for 10Mbps, 100Mbps, and 1000Mbps speeds. (Appendix D Alternative Access Offerings Pricing for Ethernet SES (Standard VLAN).

The pricing will be reduced as follows:

10Mbps Basic Access Line will be reduced from \$695 to \$575.

100Mbps Basic Access Line will be reduced from \$1,600 to \$1,405.

100Mbps (GigE) Basic Access Line will be reduced from \$2,650 to \$2,500.

Thank you again for the opportunity to provide your telecommunication needs. Please feel free to contact either of us with any questions or concerns.

Sincerely,



Sandra K. Hawkins
Verizon Business
Senior Account Manager
304-356-3395



Rich O'Brien
Marketing Director - Southeast Region
Frontier Communications
Office: 304.344.6474



STATE OF WEST VIRGINIA
DEPARTMENT OF ADMINISTRATION
OFFICE OF TECHNOLOGY
State Capitol
Charleston, West Virginia 25305

Joe Manchin III
Governor

Robert W. Ferguson, Jr.
Cabinet Secretary

Kyle Schafer
Chief Technology Officer

MEMORANDUM

TO: Jo Ann Adkins, Senior Buyer
Purchasing Division

FROM: Kyle Schafer, Chief Technology Officer
Office of Technology
Kyle Schafer

SUBJECT: INFORMATION TECHNOLOGY PROCUREMENT
REQUISITION NUMBER: SWC-MPLS07, C.O. 7 - IS&C NUMBER: 2011-134

DATE: October 26, 2010

Subdivision §5A-6-4(a)(3) of the State Code permits the Chief Technology Officer to "evaluate, in conjunction with the Information Services and Communications Division (IS&C) of the Department of Administration, the economic justification, system design and suitability of information equipment and related services, and review and make recommendations on the purchase, lease or acquisition of information equipment and contracts for related services by the state spending units."

Your request for approval to update the name from Verizon West Virginia Inc. to Frontier West Virginia Inc. and decrease the rate for Switched Ethernet Service, has been reviewed and approved by the Office of Technology.

This memorandum constitutes this office's official approval and a copy should be attached to your purchase order and any other correspondence related to this request.

If you have questions or need additional information, please contact Sharon Lacey at 304-957-8168.



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
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 Charleston, WV 25305-0130

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SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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*611101629 304-356-3395
 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE SE STE 101
 CHARLESTON WV 25304

ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER

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11/10/2010		NET 30		470751768			
SHIP VIA		F.O.B.		FREIGHT/TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO.	UNIT PRICE	AMOUNT		
DELIVERY DATE	CAT NO.	ITEM NUMBER	DESCRIPTION		QTY	DATE	
0001	205-18		MULTI PROTOCOL LABEL SWITCHING (MPL				
SIGNATURE _____				DATE _____			
RECEIPT TICKET FOR PURCHASE ORDER:						MPLS07	
TOTAL							

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BY _____
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CHANGE ORDER
8

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

AGENCY COPY

*611101629 304-356-3395
 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE SE STE 101
 CHARLESTON WV 25304

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FEIN/SSN		FUND	
12/27/2010		NET 30		470751768			
SHIP VIA		FOB		FREIGHT TERMS		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID		MUL-MUL	
LINE	QUANTITY	UOP	VENDOR ITEM NO.		UNIT PRICE	AMOUNT	
	DELIVERY DATE	CAT NO.	ITEM NUMBER				
CHANGE ORDER #08							
TO RENEW THE ORIGINAL CONTRACT ACCORDING TO ALL TERMS, CONDITIONS, PRICES AND SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT INCLUDING ALL AUTHORIZED CHANGE ORDERS.							
EFFECTIVE DATE OF RENEWAL: 07/01/2011 THROUGH 06/30/2013							
RENEWALS REMAINING: 1							
***** NO ADDITIONAL CHANGES *****							
PREVIOUS PO TOTAL==>						OPEN END	
PO NET CHANGE (+)==>							
OPEN END							
TOTAL							

PURCHASING DIVISION
 CERTIFIED ENCUMBERED
 DEC 30 2010
Kimberly D. Hyatt

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE *12/27/10*

APPROVED FOR
Roanne E. Fiskal
 APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BUYER 41 304-558-0492
 BY *Justin S. Jewell* 12/28/10
 PURCHASING DIVISION AUTHORIZED SIGNATURE

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all federal, state and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties' final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will:
(a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
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13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
16. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
17. **ANTITRUST:** In accepting this purchase order or signing this contract with any agency for the State of West Virginia, the vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to vendor. Vendor certifies that this purchase order or contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law. Vendor further certifies that this purchase order or contract is in all respects fair and without collusion or fraud.

Co#8



We never stop working for you.

October 14th, 2010

John Dunlap
State of West Virginia
Office of Technology
1900 Kanawha Blvd E
Charleston, WV 25305

Re: MPLS07

Dear Mr. Dunlap:

As per your request, Verizon and Frontier are asking the State of WV to exercise the second renewal option of the MPLS07 contract to accommodate the E-rate fillings with the contract effective date of 07/01/2011 to 06/30/2013. This renewal will be in accordance with all terms, conditions, prices and specifications contained in the original contract including all authorized change orders.

Thank you again for the opportunity to provide your telecommunications needs.

Sincerely,

A handwritten signature in cursive script that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Verizon Business
Senior Account Manager
304-356-3395

R C Stepp
Frontier Communications
Enterprise Account Executive
304-410-5659

A handwritten signature in cursive script that reads "R C Stepp".



STATE OF WEST VIRGINIA
DEPARTMENT OF ADMINISTRATION
OFFICE OF TECHNOLOGY

State Capitol
Charleston, West Virginia 25305

Earl Ray Tomblin
Governor

Robert W. Ferguson, Jr.
Cabinet Secretary

Kyle Schaefer
Chief Technology Officer

MEMORANDUM

TO: Jo Ann Adkins, Senior Buyer
Purchasing Division

FROM: Kyle Schaefer, Chief Technology Officer
Office of Technology
Kyle Schaefer

SUBJECT: INFORMATION TECHNOLOGY PROCUREMENT
REQUISITION NUMBER: SWC-MPLS07, C.O. 8 - IS&C NUMBER: 2011-147

DATE: November 12, 2010

Subdivision §5A-6-4(a)(3) of the State Code permits the Chief Technology Officer to "evaluate, in conjunction with the Information Services and Communications Division [IS&C] of the Department of Administration, the economic justification, system design and suitability of information equipment and related services, and review and make recommendations on the purchase, lease or acquisition of information equipment and contracts for related services by the state spending units."

Your request for approval to renew the statewide MPLS contract with Verizon Business Services during the period July 1, 2011 through June 30, 2013, has been reviewed and approved by the Office of Technology.

It is our understanding that this renewal is critical, since the schools and libraries need to file their e-Rate funding with Verizon, for their 2011/2012 school year in April 2011.

This memorandum constitutes this office's official approval and a copy should be attached to your purchase order and any other correspondence related to this request.

If you have questions, or need additional information, please contact Sharon Lacey at 304-957-8168.

KS:tm



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE

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	DELIVERY DATE	CAT NO	ITEM NUMBER		
RECEIPT TICKET FOR PURCHASE ORDER: MPLS07					
0001		205-18	MULTI PROTOCOL LABEL SWITCHING (MPL		
		SIGNATURE _____	DATE _____		
					TOTAL

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APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE

GENERAL TERMS & CONDITIONS PURCHASE ORDER/CONTRACT

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5. **MODIFICATIONS:** This writing is the parties' final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will:
(a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
8. **CANCELLATION:** The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
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14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
16. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
17. **ANTITRUST:** In accepting this purchase order or signing this contract with any agency for the State of West Virginia, the vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to vendor. Vendor certifies that this purchase order or contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law. Vendor further certifies that this purchase order or contract is in all respects fair and without collusion or fraud.

November 4, 2011

David Tincher, Director
West Virginia Purchasing Division
P.O. Box 50130
Charleston, WV 25305

Re: MPLS07

Dear Director Tincher:

You have asked that Verizon Business explain how Verizon West Virginia Inc. (now Frontier West Virginia Inc.) became a party to the MPLS07 contract. Verizon Business notes that the signature block for the Verizon entities on the WV-96 Agreement Addendum, made part of the MPLS07 contract, reflects that Verizon Business Network Services, Inc. executed the agreement on behalf of both MCI Communications Services, Inc. d/b/a Verizon Business Services ("Verizon Business") and Verizon West Virginia Inc. ("Verizon West Virginia"). Both Verizon Business and Verizon West Virginia had delegated signature authority to Verizon Business Network Services, Inc. for purposes of executing the MPLS07 contract and, thus, making Verizon West Virginia and Verizon Business original signatories to the MPLS07 contract.

Sincerely, 

Marsha K Harrell
Senior Consultant
Contract Management

Verizon Business Network Services, Inc.



November 4, 2011

State of West Virginia
Office of Technology
1900 Kanawha Blvd E
Charleston, WV 25304

Re: Change Order No. 9 To Purchase Order MPLS07

The State of West Virginia, Department of Administration (the "State"), and Frontier West Virginia Inc. (formerly known as Verizon West Virginia Inc.) ("Frontier") and Verizon Business Network Services Inc., on behalf of MCI Communications Services, Inc. d/b/a Verizon Business Services Inc. ("Verizon Business") (all of which are collectively, the "Parties") hereby enter into this Change Order No. 9 to Purchase Order MPLS07. The Parties agree as follows:

1. **Single Point of Contact for Grant NT 10BIX557031.** The Parties agree that for purposes of the Broadband Technology Opportunities Program ("BTOP") Grant to the State by the National Telecommunications and Information Administration ("NTIA"), Grant NT 10BIX557031 (the "BTOP Grant"):

- a. The build-out of additional network facilities for the BTOP Grant shall be governed by MPLS07, Attachment D, Clarifications to Terms and Conditions, page 72 of 74;
- b. Frontier shall be the single point of contact to the State for (i) ordering; (ii) implementation and installation, and (iii) issuance of bills (and collection of any) network facilities build-out charges; and

c. Frontier shall be the single point of contact to the State for (i) ordering; (ii) implementation and installation, and (iii) issuance of bills (and collection of any) other charges associated with services provided by Frontier pursuant to the BTOP Grant, so long as Frontier is the sole provider of such services to the State, without any interaction with or responsibility on the part of Verizon Business.

In all other respects, Purchase Order MPLS07 remains unchanged.

2. **Other Terms and Conditions.** All other terms and conditions of Purchase Order MPLS07, as previously amended, including but not limited to Agreement Addendum WV-96, shall remain in full force and effect.

Thank you again for the opportunity to provide your telecommunication needs. Please feel free to contact either Sandy Hawkins on 304 356-3395 or Robert Roush on 304-344-7221 with any questions or concerns regarding this letter.

FRONTIER WEST VIRGINIA INC.

SIGNED:

Dana E Waldo

BY:

Dana E Waldo

ITS:

Service President + GM

VERIZON BUSINESS NETWORK SERVICES INC., ON BEHALF OF MCI COMMUNICATIONS SERVICES, INC. D/B/A VERIZON BUSINESS SERVICES INC.

SIGNED:

Marsha K. Harrell

BY:

Marsha K Harrell
Senior Consultant
Contract Management

ITS:

Corporate Policy Statement

Policy No.: CPS-103
Issued: December 6, 2010
Subject: Authority to Approve Transactions



**APPENDIX 4
VERIZON BUSINESS
CPS-103 LETTER OF DELEGATION OF AUTHORITY
FORM 101**

Within the authority granted to me in CPS-103, "Authority to Approve Transactions," I delegate

Patricia L Myers, Manager, Pricing & Contract Management
Marsha K Harrell, Senior Consultant, Pricing & Contract Management
Lisa M Guignard, Director, Pricing & Contract Management; and
Christopher W McKeown, Manager, Pricing

the authority to perform the following function:

Execute and deliver Verizon Business Customer Contracts and Proposals requiring "wet ink" signatures, including any and all ancillary documents and amendments related thereto, that are duly approved in accordance with then-applicable Verizon Business corporate policies, including the use of stamp bearing facsimile of my signature in accordance with *Security Procedure for Anthony Recline, Vice President, Pricing & Contract Management, Blue Ink Stamp Policy.*

This will be effective beginning on July 1, 2011 and ending on June 30, 2012 or before if rescinded by me.

(Annual delegations must be completed by July 1st of each respective year and may not exceed one year from their effective date. Delegations with a start date other than July 1st should also include an end date of the subsequent June 30 or earlier.)

Distribution:

- The person delegated authority must retain a copy of Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date.
- The person granting the delegation must retain the Form 101 delegation, either electronic or hard copy, for one (1) year after expiration date; send a copy to the delegate, the group Chief Financial Officer, and Corporate Finance Compliance at corporatefinancecompliance@core.verizon.com; and ensure the delegation is entered into the Accounts Payable system when appropriate.

Approved By:

Anthony Recline 7/8/11
Signature Date

Anthony Recline
Name VZ ID

VP, Pricing & Contract Management

Responsibility Code or Cost Center Code
Lisa M Guignard 7/5/11

Delegate's Signature - Lisa M Guignard

Patricia L Myers 7/8/11
Delegate's Signature - Patricia L Myers

Marsha K Harrell 7/8/11
Delegate's Signature - Marsha K Harrell

Chris W McKeown 7/6/2011
Delegate's Signature - Christopher W McKeown



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

Purchase Order

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 MPLS07

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CHANGE ORDER
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 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE STE 101
 CHARLESTON WV 25304

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LINE	QUANTITY	UOP	VENDOR ITEM NO	UNIT PRICE	AMOUNT		
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			SIGNATURE _____				
			DATE _____				
							TOTAL

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APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE

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4. **COMPLIANCE:** Seller shall comply with all federal, state and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties' final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will:
(a) conform to the specifications, drawings, samples or other description furnished or specified by the Buyer; (b) be merchantable and fit for the purpose intended; and/or (c) be free from defect in material and workmanship.
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December 3, 2012

Linda Harper
State of West Virginia
Office of Technology
1900 Kanawha Blvd E
Charleston, WV 25305

Re: MPLS07

Dear Ms. Harper:

As per your request, Verizon and Frontier is asking the State of WV to exercise the third and final renewal option of the MPLS07 contract to accommodate the E-rate fillings with the contract effective date of 07/01/2013 to 06/30/2015. This renewal will be in accordance with all terms, conditions, prices and specifications contained in the original contract including all authorized change orders.

Thank you again for the opportunity to provide your telecommunications needs.

Sincerely,

A handwritten signature in black ink that reads "Sandra K. Hawkins".

Sandra K. Hawkins
Senior Account Manager
Verizon Business
4700 MacCorkle Av SE
Charleston, WV 25304
304-356-3395

A handwritten signature in black ink that reads "R. Chad Stepp".

R. Chad Stepp
Enterprise Account Executive
Frontier Communications
1500 MacCorkle Av
Charleston, WV 25396
304-410-5659



State of West Virginia
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VENDOR TO

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 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



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

Purchase Order

PURCHASE ORDER NO.
MPLS07

PAGE
1

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CHANGE ORDER
11

CORRECT PURCHASE ORDER NUMBER MUST APPEAR ON ALL PACKAGES, INVOICES, AND SHIPPING PAPERS. QUESTIONS CONCERNING THIS PURCHASE ORDER SHOULD BE DIRECTED TO THE BUYER AS NOTED BELOW.

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

AGENCY COPY

*611101629 304-356-3395
 VERIZON BUSINESS SVCS
 4700 MACCORKLE AVE STE 101
 CHARLESTON WV 25304

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	FINISH	PLANT		
02/05/2013	NET 30	470751768			
		FREIGHT TERMS	ACCOUNT NUMBER		
BEST WAY	DESTINATION	PREPAID	MUL - MUL		
LINE	QUANTITY	UOP	VENDOR ITEM NO.	UNIT PRICE	AMOUNT
	DELIVERY DATE	CAT. NO.	ITEM NUMBER		
CHANGE ORDER #11					
TO ADD THE FOLLOWING SERVICES:					
	3 MBPS BASIC ACCESS ETHERNET			\$385.00 PER MONTH	
	5 MBPS BASIC ACCESS ETHERNET			\$485.00 PER MONTH	
ALL PROVISIONS OF THE ORIGINAL CONTRACT AND SUBSEQUENT CHANGE ORDERS NOT MODIFIED HEREIN SHALL REMAIN IN FULL FORCE AND EFFECT.					
BACKGROUND CHECK: IN ACCORDANCE WITH W. VA. CODE 15-2D-3, THE DIRECTOR OF THE DIVISION OF PROTECTIVE SERVICES MAY REQUIRE ANY SERVICE PROVIDER WHOSE EMPLOYEES ARE REGULARLY EMPLOYED ON THE GROUNDS OR IN THE BUILDINGS OF THE CAPITOL COMPLEX OR WHO HAVE ACCESS TO SENSITIVE OR CRITICAL INFORMATION TO SUBMIT TO A FINGERPRINT-BASED STATE AND FEDERAL BACKGROUND INQUIRY THROUGH THE STATE REPOSITORY. THE SERVICE PROVIDER IS RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FINGERPRINT-BASED STATE AND FEDERAL BACKGROUND INQUIRY.					
AFTER THE CONTRACT FOR SUCH SERVICES HAS BEEN APPROVED, PREVIOUS PO TOTAL==> OPEN END PO NET CHANGE (+)==>					
					PURCHASING DIVISION CERTIFIED ENCUMBERED FEB 8 2013 <i>Beverly Toler</i>
					OPEN END TOTAL

IF APPROVAL AS TO FORM IS REQUIRED BY ATTORNEY GENERAL, CHECK HERE ()

DW
 APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY *[Signature]*
 BUYER #1
 304-558-0492
 PURCHASING DIVISION AUTHORIZED SIGNATURE



State of West Virginia
 Department of Administration
 Purchasing Division
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 BY ORDER

DATE PRINTED	TERMS OF SALE	PO NUMBER	PLANT
02/05/2013	NET 30	470751768	
BEST WAY	DESTINATION	PREPAID	MIL - MIL
LINE	QUANTITY	UNIT PRICE	AMOUNT
<p>BUT BEFORE ANY SUCH EMPLOYEES ARE PERMITTED TO BE ON THE GROUNDS OR IN THE BUILDINGS OF THE CAPITOL COMPLEX OR HAVE ACCESS TO SENSITIVE OR CRITICAL INFORMATION, THE SERVICE PROVIDER SHALL SUBMIT A LIST OF ALL PERSONS WHO WILL BE PHYSICALLY PRESENT AND WORKING AT THE CAPITOL COMPLEX TO THE DIRECTOR OF THE DIVISION OF PROTECTIVE SERVICES FOR PURPOSES OF VERIFYING COMPLIANCE WITH THIS PROVISION.</p> <p>THE STATE RESERVES THE RIGHT TO PROHIBIT A SERVICE PROVIDER'S EMPLOYEES FROM ACCESSING SENSITIVE OR CRITICAL INFORMATION OR TO BE PRESENT AT THE CAPITOL COMPLEX BASED UPON RESULTS ADDRESSED FROM A CRIMINAL BACKGROUND CHECK.</p> <p>SERVICE PROVIDERS SHOULD CONTACT THE WEST VIRGINIA DIVISION OF PROTECTIVE SERVICES BY PHONE AT (304) 558-9911 FOR MORE INFORMATION.</p>			
0001	LS	.00000	
	12/21/2006	205-18	
MULTI PROTOCOL LABEL SWITCHING (MELS) VIRTUAL			
			TOTAL

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APPROVED AS TO FORM BY
 ASSISTANT ATTORNEY GENERAL

BY _____
 PURCHASING DIVISION AUTHORIZED SIGNATURE



December 18, 2012

John Durlap
State of West Virginia
Office of Technology
1900 Kanawha Blvd., East
Charleston, WV 25304

Re: MPLS07

Dear Mr. Durlap:

As per your request, Frontier West Virginia Inc. (Frontier) and Verizon Business Network Services Inc., on behalf of MCI Communications Services Inc. d/b/a Verizon Business Services Inc. (Verizon Business) are offering the following services under Purchase Order MPLS07 to public entities receiving E-rate funding:

Services	Price per month
3 Mbps Basic Access Ethernet	\$385.00
5 Mbps Basic Access Ethernet	\$485.00

This offer is made with the following additional terms and conditions:

1. Frontier and the Customer will comply with all current E-rate regulations.
2. Credits for E-rate discounts will not appear on customer invoices until Frontier has received a Funding Commitment Letter for the associated services. The billed entity will pay full price for services until a funding commitment has been made by Universal Service Administrative Company (USAC.)

All other terms and conditions of Purchase Orders MPLS07 as it may have previously been amended including but not limited to Agreement Addendum WV-96 will remain in full force and effect.

Sincerely,

Sandra K. Hawkins
Senior Account Manager
Verizon Business
304-356-3395

R. Chad Stepp
Enterprise Account Executive
Frontier Communications
304-410-5659



State of West Virginia
 Department of Administration
 Purchasing Division
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 CHARLESTON WV 25304

ALL STATE AGENCIES
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 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED		TERMS OF SALE		FUND	
02/05/2013		NET 30		470751768	
SHIP VIA		FOR		ACCOUNT NUMBER	
BEST WAY		DESTINATION		PREPAID	
LINE	QUANTITY	UNIT	VENDOR ITEM NO	UNIT PRICE	AMOUNT
DELIVERY DATE	CATNO	ITEM NUMBER			
RECEIPT TICKET FOR PURCHASE ORDER:					MPLS07
LINE	CATNO	ITEM NUMBER	DESCRIPTION	QTY	DATE
0001		205-18	MULTI PROTOCOL LABEL SWITCHING (MPL		
SIGNATURE _____				DATE _____	
					TOTAL

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BY _____
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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: 2015-03-31

CORRECT ORDER NUMBER
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 THE BUYER.

Order Number: CMA 0212 0212 MPLS07	Procurement Folder: 36517
Document Name: MPLS07; Change Order No.12	Reason for Modification:
Document Description: Multi-Protocol Label Switching and Services	Change Order 12 : Emergency Extension of the current contract.
Procurement Type: Central Master Agreement	Extension Effective date:07/01/2015 through: 06/30/2016
Buyer Name: Guy Nisbet	
Telephone: (304) 558-2596	
Email: guy.l.nisbet@wv.gov	
Shipping Method: Best Way	Effective Start Date: 2007-08-10
Free on Board: FOB Dest, Freight Prepaid	Effective End Date: 2016-06-30

VENDOR	DEPARTMENT CONTACT
VERIZON BUSINESS 4700 MACCORKLE AVE SE CHARLESTON WV 25304 US Vendor Contact Phone: (800) 334-7692 Extension: Discount Percentage: 0.0000 Discount Days: 30	Requestor Name: Justin McAllister Requestor Phone: (304) 380-9460 Requestor Email: justin.l.mcallister@wv.gov

INVOICE TO	ATTN
ALL STATE AGENCIES VARIOUS 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

PURCHASING DIVISION AUTHORIZATION SIGNED BY: David Tincher DATE: 2015-03-27 ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM SIGNED BY: J. Robert Leslie DATE: 2015-03-30 ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION SIGNED BY: Melissa J Skiles DATE: 2015-03-31 ELECTRONIC SIGNATURE ON FILE
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Extended Description:

Change Order 12: Change Order issued as an emergency extension the Contract according to all Terms & Conditions, Pricing and Specifications contained in the Original Contract including all authorized Change Orders.

Effective date of Renewal: 07/01/2015
through: 06/30/2016

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

No other Changes.

Line	Commodity Code	Manufacturer	Model No	Unit	Unit Price
1	83121703			EA	\$0.000000

Description: internet related services

Extended Description:

Multi-Protocol Label Switching and Services

Total Order Amount	Open End
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MPLS07	Document Phase Final	Document Description Multi-Protocol Label Switching and Services	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions