

Date December 2008

Addendum Number 22

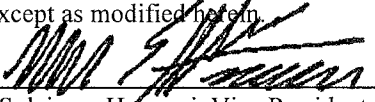
From: Verizon Financial Management Corp. on behalf of
Verizon Virginia Inc, and
Verizon Business Services
22001 Loudoun County Parkway
Ashburn, Virginia 20147

To: Judy L. Lilly, Associate Vice President
Network Infrastructure and Services
Virginia Tech
1770 Forecast Drive (0506)
Blacksburg, VA 24061

A proposal to amend contract number CC-0696-Bell-Atl is requested. Attached is Addendum No. 22 reflecting the changes.

<u>Type of Change</u>	<u>Service Requested</u>	<u>Purpose of Change</u>
Change in Pricing	Private IP Services	Pricing Change
Augmentation of Services	SES – EvPL 10M	Augment current service
Augmentation of Services	Custom Broadband Services	Add Verizon South, VSSI, and fMCI Financial Services

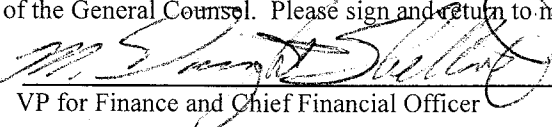
Verizon is pleased to submit this proposal to amend the contract referenced above at the price and terms indicated in the attached document. Should the University wish to accept this proposal, please have your duly authorized representative sign in the space provided below and return this copy to the Verizon Representative at the address listed above. All other terms and conditions of the contract shall remain in full force in effect except as modified herein.

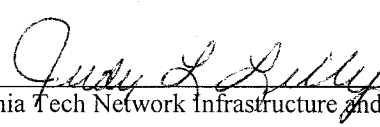

 _____ 1/22/09
 Suleiman Hessami, Vice President
 Verizon Business Network Services Inc. on behalf of
 Verizon Virginia Inc., and Verizon Business Services

To: Dwight Shelton
VP for Finance and Chief Financial Officer
Virginia Tech
Blacksburg, VA 24061

From: Judy Lilly, Associate Vice President
Network Infrastructure and Services, 0506
Virginia Tech
Blacksburg, VA 24061

Attached are documents to amend the contract referenced above. This request has been reviewed and approved by the Office of the General Counsel. Please sign and return to me at the address above.


 _____ 1/13/09
 VP for Finance and Chief Financial Officer Date


 _____ 1/14/09
 Virginia Tech Network Infrastructure and Services Date

cc: Purchasing

**BROADBAND NETWORK SERVICES
AGREEMENT ADDENDUM**

THIS ADDENDUM No. 22 (“Addendum”) and its Exhibits attached hereto modify the Broadband Network Services Agreement (“Agreement”) dated June 12, 1996 by and between Virginia Polytechnic Institute and State University (“Virginia Tech”) and Verizon Virginia, Inc. (“Contractor”). The Parties hereto agree and acknowledge Verizon Select Services Inc., (“VSSI”), is hereby an additional separate Party to this Agreement for the purposes of provisioning its respective Services set forth in this Addendum and extending the Agreement.

WHEREAS, this Addendum is being entered into pursuant to section 5.14 of the Agreement, the services in this Addendum are in addition to and support the existing Services contained in the Agreement. This Addendum will be held by Virginia Tech; and

WHEREAS, Section 5.14 of the Agreement permits the parties, to add new services to the Agreement; and

WHEREAS, Virginia Tech, Verizon Virginia, and any of Verizon Virginia’s affiliates or subcontractors who agree to participate under the terms and conditions of this Addendum agree to provide the services contained herein to the Ordering Parties; and

WHEREAS, the Parties wish to work together to implement services that will serve Virginia’s research institutions and other permitted Ordering Parties ; and

WHEREAS, the parties have agreed to a pricing change outlined below.

NOW, THEREFORE, in consideration of the premises, mutual promises and covenants contained therein, the parties hereto agree as follows:

CHANGES:

1. Domestic Private IP

Addendum 19 Attachment D section 1.A **Domestic Private IP**, including the first paragraph but not including the subsections, is hereby replaced with the following language:

Domestic Private IP (PIP). Customer will receive discounted VBS II standard domestic MRCs for Private IP Port and CARs (as defined below) which are fixed for the Term of this Agreement, and shown in Exhibits 4, 5, 6 and 7. Customer will receive firm fixed VBSII rates, for a 1 year term. Please see Exhibit 4 and 5 hereto for 1 year rates. Customer will receive firm fixed VBSII rates for a 3 year term. Please see Exhibit 6 and 7 hereto for 3 year rates. Pricing in the exhibits reflect the applicable discounts. This pricing will apply only to those entities ordering off of the Network Virginia Contract.

2. Ethernet Virtual Private Line (EvPL)

10Mbps EVPL ERS PREMIER service . This service is contingent upon the general availability launch of 10M after the service is available in the EVPL later in the year. The 10M Premier Access Channel can only be ordered, provisioned and installed after the service is available in the VA tariff for general customer use.

In addition to the 100M and 1000M Premier UNIs for EvPL that were introduced in Addendum 19, Verizon Business would like to introduce a price for a new lower speed 10M Premier EvPL UNI. The following prices apply:

<u>Service</u>	<u>3 Year Install</u>	<u>3 Year Term Monthly Charge (1)</u>
10Mbps EVPL Premier, each*	\$380	\$675
EVC	\$100.00	
IOF MILEAGE PER MILE	\$100.00	

IOF mile. The IOF mileage is calculated between the customer's End Serving Office and the closest service delivery Switch or aggregation node.

3. Addendum 16

This Addendum 22 augments the Additional Services section of Addendum 16, dated December 31, 2004, to allow Verizon South Inc., Verizon Select Services Incorporated, and MCI Communication Services Inc., d/b/a Verizon Business Services, herein referred to as "Verizon" to provide custom Intrastate/InterLATA and Intrastate/IntraLATA Broadband Services to authorized Ordering Parties (hereinafter "Custom Broadband Services"). The Custom Broadband Services include but are not limited to Dense Wave Division Multiplexing (DWDM), Coarse Wave Division Multiplexing (CWDM), Optical Carrier services (OC3, OC12, OC48, etc.), Ethernet Private Line (EPL) [which was referenced in Addendum 16 as "Optical Networking (Ethernet or Fiber Channels)" but subsequently has been re-named to Ethernet Private Line] and Synchronous Optical Networking (SONET) or subsets of these services. The Custom Broadband Services may include any combination of components, installation or design services, network management services, and maintenance necessary to support user application requirements end to end, and may be built to include any or all service elements described in the product offering. Verizon will base each such Custom Broadband Service on individual user requirements determined by the Ordering Party in a mutually agreed upon Service Application or Service Attachment. Each Service Application or Attachment will include Verizon's standard terms and conditions specific to that Custom Broadband Service, which shall provide for the conditions under which the Custom Broadband Service shall be provided. Additional technical and operational terms may be considered for each Custom Broadband Service, subject to applicable law. Provision of all Custom Broadband Service are subject to the discretion of the legal Verizon entity and the receipt of all necessary approvals, and will be provided only on a "where facilities exist" basis. Ordering Parties who previously ordered service under Addendum No. 16 may. At the discretion of the Ordering Party, continue service under the terms of the Additional Services section of Addendum No. 16.

ORDER OF PRECEDENCE

In the event of a conflict between the terms of this Addendum with regards to services provided by Verizon Business and the Agreement or any previous Addenda, the terms of this Addendum shall take precedence over the Agreement or any previous Addenda.

PARTIES TO THIS ADDENDUM:

This Addendum will be effective the first day of the second full billing cycle following execution and delivery of this Agreement by Customer to Verizon. It may be terminated by either party as provided in the Agreement, provided that the terms hereof shall continue after termination for any Statement of Work in effect on the date of termination. All other terms and conditions of the Agreement shall remain unchanged and in full force.

This Addendum No. 22 shall become effective upon signature by Verizon and Virginia Tech.

Authorized representatives of both parties shall acknowledge this Amendment by signing above in the space provide

**EXHIBIT 4
1 YEAR PIP PORT PRICING**

Port Speed (dedicated only)	Port MRC	Ethernet Flow Port Speed* (dedicated only)	Port MRC
1.536 Mbps	\$1,011.00	1 Mbps	\$825.00
3.072 Mbps (2xDS1)	\$1,683.00	2 Mbps	\$1,525.00
4.608 Mbps (3xDS1)	\$2,065.00	3 Mbps	\$1,683.00
6.144 Mbps (4xDS1)	\$2,243.00	4 Mbps	\$1,938.00
7.68 Mbps (5xDS1)	\$2,456.00	5 Mbps	\$2,135.00
9.216 Mbps (6xDS1)	\$2,734.00	6 Mbps	\$2,243.00
10 Mbps	\$2,905.00	7 Mbps	\$2,350.00
15 Mbps	\$3,368.00	8 Mbps	\$2,549.00
20 Mbps	\$3,614.00	9 Mbps	\$2,641.00
25 Mbps	\$3,723.00	10 Mbps	\$2,905.00
30 Mbps	\$3,834.00	15 Mbps	\$3,368.00
35 Mbps	\$4,055.00	20 Mbps	\$3,614.00
40 Mbps	\$4,240.00	25 Mbps	\$3,723.00
45 Mbps	\$4,275.00	30 Mbps	\$3,834.00
155 Mbps	ICB	35 Mbps	\$4,055.00
		40 Mbps	\$4,240.00
		50 Mbps	\$6,405.00
		60 Mbps	\$7,503.00
		70 Mbps	\$8,540.00
		80 Mbps	\$9,516.00
		90 Mbps	\$10,431.00
		100 Mbps	\$11,285.00
		150 Mbps	ICB
		200 Mbps	ICB
		300 Mbps	ICB
		400 Mbps	ICB
		500 Mbps	ICB
		600 Mbps	ICB
		700 Mbps	ICB
		800 Mbps	ICB
		900 Mbps	ICB

EXHIBIT 5

1 Year Gold CAR Rate

Speed (Kbps)	8	16	32	48	64	72	80	104	112	128	160	192	208
Rate	\$12.00	\$22.00	\$35.00	\$45.00	\$54.00	\$57.00	\$60.00	\$63.00	\$66.00	\$90.00	\$93.00	\$121.00	\$124.00
Speed (Kbps)	224	256	312	320	336	376	384	400	448	464	504	512	520
Rate	\$127.00	\$149.00	\$153.00	\$176.00	\$179.00	\$182.00	\$199.00	\$203.00	\$221.00	\$224.00	\$228.00	\$240.00	\$243.00
Speed (Kbps)	528	544	576	608	624	640	688	704	712	752	760	768	800
Rate	\$246.00	\$249.00	\$257.00	\$260.00	\$263.00	\$271.00	\$275.00	\$284.00	\$287.00	\$290.00	\$293.00	\$293.00	\$296.00
Speed (Kbps)	820	832	896	904	912	928	960	1004	1008	1024	1088	1152	1200
Rate	\$300.00	\$301.00	\$306.00	\$309.00	\$312.00	\$315.00	\$309.00	\$309.00	\$309.00	\$309.00	\$312.00	\$324.00	\$327.00
Speed (Kbps)	1216	1232	1280	1376	1408	1512	1528	1536	1728	1792	1808	1840	1984
Rate	\$330.00	\$333.00	\$334.00	\$337.00	\$339.00	\$340.00	\$340.00	\$340.00	\$343.00	\$346.00	\$350.00	\$353.00	\$356.00
Speed (Kbps)	1992	2000	2004	2040	2048	2064	2124	2420	2688	2716	2752	3008	3012
Rate	\$359.00	\$362.00	\$365.00	\$368.00	\$434.00	\$452.00	\$470.00	\$489.00	\$507.00	\$525.00	\$544.00	\$562.00	\$580.00
Speed (Kbps)	3064	3072	3324	3500	3504	3520	3600	3620	3680	3776	4000	4100	4128
Rate	\$598.00	\$622.00	\$640.00	\$658.00	\$676.00	\$695.00	\$713.00	\$731.00	\$750.00	\$768.00	\$786.00	\$805.00	\$823.00
Speed (Kbps)	4144	4480	4496	4608	5008	5392	5520	6000	6144	6288	6912	7200	7280
Rate	\$841.00	\$859.00	\$878.00	\$893.00	\$954.00	\$1,015.00	\$1,076.00	\$1,137.00	\$1,146.00	\$1,192.00	\$1,238.00	\$1,283.00	\$1,329.00
Speed (Kbps)	7500	7680	8000	8096	8288	8896	8992	9008	9216	9664	10000	10752	10800
Rate	\$1,375.00	\$1,380.00	\$1,414.00	\$1,448.00	\$1,481.00	\$1,515.00	\$1,548.00	\$1,582.00	\$1,596.00	\$1,657.00	\$1,718.00	\$1,793.00	\$1,854.00
Speed (Kbps)	11056	12288	12896	13488	14736	15360	15552	15564	16192	17808	18000	18432	18976
Rate	\$1,915.00	\$1,970.00	\$2,074.00	\$2,178.00	\$2,281.00	\$2,364.00	\$2,425.00	\$2,486.00	\$2,547.00	\$2,608.00	\$2,669.00	\$2,720.00	\$2,781.00
Speed (Kbps)	20000	21504	21680	22496	22576	24384	24576	26992	27088	27536	27648	29776	30000
Rate	\$2,842.00	\$3,038.00	\$3,099.00	\$3,160.00	\$3,221.00	\$3,282.00	\$3,320.00	\$3,381.00	\$3,442.00	\$3,503.00	\$3,564.00	\$3,625.00	\$3,686.00
Speed (Kbps)	30720	30928	31488	31552	31680	32480	33792	34368	36000	36800	36864	37072	39552
Rate	\$3,769.00	\$3,800.00	\$3,830.00	\$3,861.00	\$3,891.00	\$3,922.00	\$3,938.00	\$3,969.00	\$3,999.00	\$4,030.00	\$4,069.00	\$4,100.00	\$4,130.00
Speed	39769	39936	40000	40256	41440	43008	43200	44992					
Rate	\$4,164.00	\$4,164.00	\$4,184.00	\$4,200.00	\$4,220.00	\$4,220.00	\$4,240.00	\$4,256.00					

**EXHIBIT 6
3 YEAR PIP PORT PRICING**

Port Speed (dedicated only)	Port MRC	Ethernet Flow Port Speed* (dedicated only)	Port MRC
1.536 Mbps	\$414.00	1 Mbps	\$338.00
3.072 Mbps (2xDS1)	\$690.00	2 Mbps	\$625.00
4.608 Mbps (3xDS1)	\$847.00	3 Mbps	\$690.00
6.144 Mbps (4xDS1)	\$919.00	4 Mbps	\$794.00
7.68 Mbps (5xDS1)	\$1007.00	5 Mbps	\$875.00
9.216 Mbps (6xDS1)	\$1121.00	6 Mbps	\$919.00
10 Mbps	\$1,191.00	7 Mbps	\$963.00
15 Mbps	\$1,381.00	8 Mbps	\$1,045.00
20 Mbps	\$1,481.00	9 Mbps	\$1,083.00
25 Mbps	\$1,526.00	10 Mbps	\$1,191.00
30 Mbps	\$1,571.00	15 Mbps	\$1,381.00
35 Mbps	\$1,662.00	20 Mbps	\$1,481.00
40 Mbps	\$1,738.00	25 Mbps	\$1,526.00
45 Mbps	\$1,752.00	30 Mbps	\$1,571.00
155 Mbps	\$5,038.00	35 Mbps	\$1,662.00
		40 Mbps	\$1,738.00
		50 Mbps	\$2,625.00
		60 Mbps	\$3,075.00
		70 Mbps	\$3,500.00
		80 Mbps	\$3,900.00
		90 Mbps	\$4,275.00
		100 Mbps	\$4,625.00
		150 Mbps	ICB
		200 Mbps	ICB
		300 Mbps	ICB
		400 Mbps	ICB
		500 Mbps	ICB
		600 Mbps	ICB
		700 Mbps	ICB
		800 Mbps	ICB
		900 Mbps	ICB

EXHIBIT 7

3 Year Gold CAR Rate

Speed (Kbps)	8	16	32	48	64	72	80	104	112	128	160	192	208
Rate	\$5.00	\$9.00	\$14.00	\$18.00	\$22.00	\$24.00	\$25.00	\$26.00	\$27.00	\$37.00	\$38.00	\$50.00	\$51.00
Speed (Kbps)	224	256	312	320	336	376	384	400	448	464	504	512	520
Rate	\$52.00	\$61.00	\$63.00	\$72.00	\$73.00	\$75.00	\$82.00	\$83.00	\$91.00	\$92.00	\$93.00	\$99.00	\$100.00
Speed (Kbps)	528	544	576	608	624	640	688	704	712	752	760	768	800
Rate	\$101.00	\$102.00	\$105.00	\$107.00	\$108.00	\$111.00	\$113.00	\$116.00	\$118.00	\$119.00	\$120.00	\$120.00	\$122.00
Speed (Kbps)	820	832	896	904	912	928	960	1004	1008	1024	1088	1152	1200
Rate	\$123.00	\$123.00	\$125.00	\$127.00	\$128.00	\$129.00	\$127.00	\$127.00	\$127.00	\$127.00	\$128.00	\$133.00	\$134.00
Speed (Kbps)	1216	1232	1280	1376	1408	1512	1528	1536	1728	1792	1808	1840	1984
Rate	\$135.00	\$137.00	\$137.00	\$138.00	\$139.00	\$139.00	\$140.00	\$140.00	\$141.00	\$142.00	\$143.00	\$145.00	\$146.00
Speed (Kbps)	1992	2000	2004	2040	2048	2064	2124	2420	2688	2716	2752	3008	3012
Rate	\$147.00	\$148.00	\$150.00	\$151.00	\$178.00	\$185.00	\$193.00	\$200.00	\$208.00	\$215.00	\$223.00	\$230.00	\$238.00
Speed (Kbps)	3064	3072	3324	3500	3504	3520	3600	3620	3680	3776	4000	4100	4128
Rate	\$245.00	\$255.00	\$262.00	\$270.00	\$277.00	\$285.00	\$292.00	\$300.00	\$307.00	\$315.00	\$322.00	\$330.00	\$337.00
Speed (Kbps)	4144	4480	4496	4608	5008	5392	5520	6000	6144	6288	6912	7200	7280
Rate	\$345.00	\$352.00	\$360.00	\$366.00	\$391.00	\$416.00	\$441.00	\$466.00	\$470.00	\$489.00	\$507.00	\$526.00	\$545.00
Speed (Kbps)	7500	7680	8000	8096	8288	8896	8992	9008	9216	9664	10000	10752	10800
Rate	\$564.00	\$566.00	\$580.00	\$593.00	\$607.00	\$621.00	\$635.00	\$648.00	\$654.00	\$679.00	\$704.00	\$735.00	\$760.00
Speed (Kbps)	11056	12288	12896	13488	14736	15360	15552	15564	16192	17808	18000	18432	18976
Rate	\$785.00	\$808.00	\$850.00	\$893.00	\$935.00	\$969.00	\$994.00	\$1,019.00	\$1,044.00	\$1,069.00	\$1,094.00	\$1,115.00	\$1,140.00
Speed (Kbps)	20000	21504	21680	22496	22576	24384	24576	26992	27088	27536	27648	29776	30000
Rate	\$1,165.00	\$1,245.00	\$1,270.00	\$1,295.00	\$1,320.00	\$1,345.00	\$1,361.00	\$1,386.00	\$1,411.00	\$1,436.00	\$1,461.00	\$1,486.00	\$1,511.00
Speed (Kbps)	30720	30928	31488	31552	31680	32480	33792	34368	36000	36800	36864	37072	39552
Rate	\$1,545.00	\$1,557.00	\$1,570.00	\$1,582.00	\$1,595.00	\$1,607.00	\$1,614.00	\$1,627.00	\$1,639.00	\$1,652.00	\$1,668.00	\$1,680.00	\$1,693.00
Speed	39769	39936	40000	40256	41440	43008	43200	44992					
Rate	\$1,708.00	\$1,708.00	\$1,716.00	\$1,724.00	\$1,7283.00	\$1,732.00	\$1,736.00	\$1,744.00					