

CAVALIER TELEPHONE MID-ATLANTIC  
ACCESS SERVICES TARIFF

PA PUC No. 3  
Original Sheet 1

**COMPETITIVE ACCESS PROVIDER SERVICES TARIFF**

Regulations and Schedule of Charges  
Applying to Access Services  
Within the Commonwealth of Pennsylvania

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Issued: February 17, 2000

Effective: April 16, 2000

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Director of Business Development  
Cavalier Telephone Mid-Atlantic, L.L.C.  
965 Thomas Drive  
Warminster, PA 18974

5.1

**SECTION 4 - SPECIAL ACCESS SERVICE /CHARGES**

The Company provides intrastate Special Access Service for use as a stand-alone service, or in connection with other Company services. Special Access Services are offered on a point-to-point basis. Each Special Access Service (Private Line) is dedicated to the Customer and the entire usable bandwidth for each service is available to the Customer for their exclusive use.

PRIVATE LINE SERVICES

4.1 DS0 Pricing

	Term	Channel Termination	Transmission Function	Fixed Mileage	Per Mile
<b>DS0</b>					
<b>2.4,4.8,9.6,19.2K</b>					
<b>Install Charges (1st Ckt--\$600 per channel Termination)</b>					
<b>Add'l Ckt. (\$354.25--per Channel termination)</b>					
Cell 1	Monthly	\$24.00	\$52.80	\$24.00	\$1.92
<b>Plan #1</b>	2 Year	\$22.29	\$49.03	\$22.29	\$1.73
1-24 CKT	3 Year	\$20.71	\$45.57	\$20.71	\$1.57
	5 Year	\$19.13	\$42.08	\$19.13	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$21.60	\$47.53	\$21.60	\$1.64
	3 Year	\$19.62	\$43.17	\$19.62	\$1.48
	5 Year	\$18.06	\$39.74	\$18.06	\$1.36
Cell 2	Monthly	\$28.80	\$52.80	\$24.00	\$1.92
<b>Plan #1</b>	2 Year	\$26.74	\$49.03	\$22.29	\$1.73
1-24 CKT	3 Year	\$24.91	\$45.57	\$20.71	\$1.57
	5 Year	\$22.95	\$42.08	\$19.13	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$25.92	\$47.53	\$21.60	\$1.73
	3 Year	\$23.55	\$43.17	\$19.62	\$1.57
	5 Year	\$21.68	\$39.74	\$18.06	\$1.36

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Cell 3	Monthly	\$38.40	\$52.80	\$24.00	\$1.92
<b>Plan #1</b>	2 Year	\$35.66	\$49.03	\$22.29	\$1.73
1-24 CKT	3 Year	\$33.14	\$45.57	\$20.71	\$1.57
	5 Year	\$30.60	\$42.08	\$19.13	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$34.57	\$47.53	\$21.60	\$1.73
	3 Year	\$31.40	\$43.17	\$19.62	\$1.57
	5 Year	\$28.90	\$39.74	\$18.06	\$1.36
Cell 4	Monthly	\$48.00	\$52.80	\$24.00	\$1.92
<b>Plan #1</b>	2 Year	\$44.57	\$49.03	\$22.29	\$1.73
1-24 CKT	3 Year	\$41.43	\$45.57	\$20.71	\$1.57
	5 Year	\$38.25	\$42.08	\$19.13	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$43.21	\$47.53	\$21.60	\$1.73
	3 Year	\$39.25	\$43.17	\$19.62	\$1.57
	5 Year	\$36.13	\$39.74	\$18.06	\$1.36
<b>56K/64K</b>					
Cell 1	Monthly	\$48.00	\$132.00	\$76.80	\$1.92
<b>Plan #1</b>	2 Year	\$44.57	\$122.57	\$71.31	\$1.73
1-24 CKT	3 Year	\$41.43	\$113.93	\$66.29	\$1.57
	5 Year	\$38.25	\$105.16	\$61.20	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$43.21	\$118.82	\$71.31	\$1.73
	3 Year	\$39.25	\$107.93	\$66.29	\$1.57
	5 Year	\$36.13	\$99.28	\$61.20	\$1.36
Cell 2	Monthly	\$52.80	\$132.00	\$76.80	\$1.92
<b>Plan #1</b>	2 Year	\$49.03	\$122.57	\$71.31	\$1.73
1-24 CKT	3 Year	\$45.57	\$113.93	\$66.29	\$1.57
	5 Year	\$42.08	\$105.16	\$61.20	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$47.53	\$118.82	\$71.31	\$1.73
	3 Year	\$43.17	\$107.93	\$66.29	\$1.57
	5 Year	\$39.74	\$99.28	\$61.20	\$1.36
Cell 3	Monthly	\$57.60	\$132.00	\$76.80	\$1.92

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<b>Plan #1</b>	2 Year	\$53.49	\$122.57	\$71.31	\$1.73
1-24 CKT	3 Year	\$49.71	\$113.93	\$66.29	\$1.57
	5 Year	\$45.90	\$105.16	\$61.20	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$51.85	\$118.82	\$71.31	\$1.73
	3 Year	\$47.10	\$107.93	\$66.29	\$1.57
	5 Year	\$43.35	\$99.28	\$61.20	\$1.36
Cell 4	Monthly	\$67.20	\$132.00	\$76.80	\$1.92
<b>Plan #1</b>	2 Year	\$62.40	\$122.57	\$71.31	\$1.73
1-24 CKT	3 Year	\$58.00	\$113.93	\$66.29	\$1.57
	5 Year	\$53.55	\$105.16	\$61.20	\$1.36
<b>Plan #2</b>					
25+ CKT	2 Year	\$60.49	\$118.82	\$71.31	\$1.73
	3 Year	\$54.95	\$107.93	\$66.29	\$1.57
	5 Year	\$50.58	\$99.28	\$61.20	\$1.36

4.2 DS1 Pricing

<b>DS1</b>					
<b>Install Charges (1st Ckt--\$660 per channel Termination)</b>					
<b>Add'l Ckt. \$292.45--per Channel termination</b>					
		Chan Term	Transmission Function	Fixed Mileage	Per Mile
Cell 1	Monthly	\$201.60	n/a	\$72.00	\$20.47
<b>Plan #1</b>	2 Year	\$187.20	n/a	\$66.86	\$16.79
1-4 CKT	3 Year	\$174.00	n/a	\$62.14	\$15.94
	5 Year	\$160.65	n/a	\$57.38	
<b>Plan #2</b>			n/a		\$24.00
5-8 CKT	2 Year	\$185.29	n/a	\$66.17	\$21.60
	3 Year	\$168.51	n/a	\$60.18	\$19.62
	5 Year	\$155.30	n/a	\$55.46	\$17.00
<b>Plan #3</b>					
9+ CKT	2 Year	\$181.47	n/a	\$64.81	\$21.60
	3 Year	\$159.35	n/a	\$56.91	\$18.97
	5 Year	\$151.73	n/a	\$54.19	\$16.36
			n/a		

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Cell 2	Monthly	\$216.00	n/a	\$72.00	\$20.47
<b>Plan #1</b>	2 Year	\$200.57	n/a	\$66.86	\$16.79
1-4 CKT	3 Year	\$186.43	n/a	\$62.14	\$15.94
	5 Year	\$171.70	n/a	\$57.38	
<b>Plan #2</b>			n/a		\$24.00
5-8 CKT	2 Year	\$198.52	n/a	\$66.17	\$21.60
	3 Year	\$180.54	n/a	\$60.18	\$19.62
	5 Year	\$171.70	n/a	\$55.46	\$17.00
<b>Plan #3</b>					
9+ CKT	2 Year	\$194.43	n/a	\$64.81	\$21.60
	3 Year	\$170.73	n/a	\$56.91	\$18.97
	5 Year	\$162.56	n/a	\$54.19	\$16.36
Cell 3	Monthly	\$230.40	n/a	\$72.00	\$20.47
<b>Plan #1</b>	2 Year	\$213.94	n/a	\$66.86	\$16.79
1-4 CKT	3 Year	\$198.86	n/a	\$62.14	\$15.94
	5 Year	\$183.60	n/a	\$57.38	
<b>Plan #2</b>					\$24.00
5-8 CKT	2 Year	\$211.76	n/a	\$66.17	\$21.60
	3 Year	\$192.58	n/a	\$60.18	\$19.62
	5 Year	\$177.48	n/a	\$55.46	\$17.00
<b>Plan #3</b>					
9+ CKT	2 Year	\$207.39	n/a	\$64.81	\$21.60
	3 Year	\$182.11	n/a	\$56.91	\$18.97
	5 Year	\$173.40	n/a	\$54.19	\$16.36
Cell 4	Monthly	\$259.20	n/a	\$72.00	\$20.47
<b>Plan #1</b>	2 Year	\$240.69	n/a	\$66.86	\$16.79
1-4 CKT	3 Year	\$223.71	n/a	\$62.14	\$15.94
	5 Year	\$206.55	n/a	\$57.38	
<b>Plan #2</b>					\$24.00
5-8 CKT	2 Year	\$238.23	n/a	\$66.17	\$21.60
	3 Year	\$216.65	n/a	\$60.18	\$19.62
	5 Year	\$199.67	n/a	\$55.46	\$17.00
<b>Plan #3</b>					
9+ CKT	2 Year	\$233.32	n/a	\$64.81	\$21.60
	3 Year	\$204.88	n/a	\$56.91	\$18.97
	5 Year	\$195.08	n/a	\$54.19	\$16.36

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**4.3 DS3 Pricing**

All DS3 Pricing is on an Individual Case Basis (ICB)

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**SECTION 5 - SPECIAL ARRANGEMENTS**

**5.1 Individual Case Basis (ICB) Arrangements**

Arrangements will be developed on a case-by-case basis in response to a bona fide request from a Customer or prospective Customer to develop a competitive bid for a service or rate not offered under this tariff. Rates quoted in response to such competitive requests may be different than those specified for such services in this tariff. ICB rates will be offered to the Customer in writing and on a nondiscriminatory basis.

ICBs will be filed with the Communications Division of the Commission.

**5.2 Special Assembly**

The Company may provide a unique intrastate service arrangement for a customer where no tariffed service exists for the service. The unique service can be provided via a Special Assembly.

The Company will file the Special Assembly including the contract of terms, conditions and rates by letter with the Communications Division.

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XO Pennsylvania, Inc.

ACCESS SERVICES  
TELEPHONE PA P.U.C. NO. 11  
CANCELLING TELEPHONE PA P.U.C. NO. 9

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Supplement No. 2  
1<sup>st</sup> Revised Title Page  
Replaces Original Title Page

XO PENNSYLVANIA, INC.  
(Formerly NEXTLINK Pennsylvania, Inc.)

REGULATIONS, DESCRIPTIONS, AND RATES

APPLICABLE TO FURNISHING COMPETITIVE INTRASTATE ACCESS SERVICES

WITHIN THE STATE OF PENNSYLVANIA

This tariff is on file with the Pennsylvania Public Utility  
Commission and copies may be inspected during normal  
business hours at the Company's principal place of business  
at 925 Berkshire Boulevard, Wyomissing, PA 19610

ISSUED: July 5, 2002

EFFECTIVE: August 4, 2002

Renardo L. Hicks, Vice President  
XO Pennsylvania  
925 Berkshire Boulevard  
Wyomissing, PA 19610

7. RATES AND CHARGES (Cont'd)7.7 IntraLATA Private Line7.7.1 Description of Service

Company IntraLATA Private Line is an IntraLATA service, which is used in conjunction with IntraLATA Network Access. IntraLATA Private Line Service provides a dedicated transmission path that originates and terminates at a Company Point of Presence (POP). Where IntraLATA Private Line is available, service is offered as a high capacity dedicated transmission facility available 24-hours per day, 7 days per week in the following bandwidths: DS1 (1.544 Mbps) and DS3 (44.436 Mbps).

The facilities to the customer-designated premises may be entirely On-Net or Off-Net. Customers may commit to one, two or three year service terms. The minimum service period for IntraLATA Private Line is one year. Should the Customer terminate service prior to the end of the term commitment, the Customer will be billed a termination charge equal to the monthly recurring charge times the number of months remaining in the term.

7.7.2 Rates and Charges

7.7.2.1 Rate Elements: The rate element that applies to IntraLATA Private Line is Longhaul Mileage.

The Longhaul Mileage rate element provides for the dedicated transmission facilities path between the Company POPs. The Longhaul Mileage rate element is made up of one variable charge: a flat, per-mile rate.

The Longhaul Mileage rate element will be rounded up to the next mile for any fraction of a mile. For example, 0.001 miles will be charged at 1 mile.

Longhaul Mileage charges do not apply for a circuit between two on-net locations in the same LATA that are 5 miles or less apart.

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ISSUED: July 5, 2002

EFFECTIVE: August 4, 2002

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5.2

XO Pennsylvania, Inc.

ACCESS SERVICES  
TELEPHONE PA P.U.C. NO. 11  
CANCELLING TELEPHONE PA P.U.C. NO. 9

Supplement No. 1  
Original Page 80.5

7. RATES AND CHARGES (Cont'd)

7.7 IntraLATA Private Line (Cont'd)

7.7.2.2 Rate Application:

DS 1	1 year	2 Year	3 Year
Installation: NRC	\$355.00	\$145.05	\$133.90
Longhaul Mileage: MRC Per mile	21.40	16.25	14.32
DS 3			
Installation: NRC	\$1,000.00	\$1,000.00	\$1,000.00
Longhaul Mileage: MRC per mile	170.53	162.01	153.48

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ISSUED: July 5, 2002

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Wyomissing, PA 19610

7. RATES AND CHARGES (Cont'd)

7.8 InterLATA Network Access

7.8.1 Description of Service

Company InterLATA Network Access is an InterLATA service that provides a dedicated transmission path between a customer designated premises and a Company Point of Presence (POP). Where InterLATA Network Access is available, service is offered as a high capacity dedicated transmission facility available 24 hours per day, 7 days per week in the following bandwidths: DS1 (1.544 Mbps) and DS3 (44.436 Mbps).

The facilities to the customer-designated premises may be entirely On-Net or Off-Net. Customers may commit to one, two or three year service terms. The minimum service period for InterLATA Network Access is one year. Should the Customer terminate service prior to the end of the term commitment, the Customer will be billed a termination charge equal to the monthly recurring charge times the number of months remaining in the term.

7.8.1.2 Rates and Charges

Rates and charges for InterLATA Network Access service are defined herein and are based on the locations of the customer designated premises in relation to Company's network. Specifically, Customers will be charged according to whether the customer-designated premises are On-Net or Off-Net. As used herein, On-Net service shall mean service to the Customer designated premises is provided entirely over Company facilities. Off-Net service shall mean service to the Customer designated premises is not provided entirely over Company facilities. Instead, service to the Customer designated premises is provided by Company, in whole or in part, through the use, purchase or lease of facilities from a service provider other than Company.

ISSUED: July 5, 2002

EFFECTIVE: August 4, 2002

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7. RATES AND CHARGES (Cont'd)

7.8 InterLATA Network Access (Cont'd)

7.8.1.2.1 Rate Elements: Two rate elements apply to Off-Net InterLATA Network Access: Channel Termination and Network Access Mileage. One rate element applies to On-Net InterLATA Network Access: Channel Termination.

Channel Termination

The Channel Termination rate element provides for the dedicated transmission path between the customer-designated premises and the Company POP. One Channel Termination charge applies per point of termination. A Channel Termination charge applies when the customer designated premises and the serving wire center are collocated in the same building.

Network Access Mileage

The Network Access Mileage rate element provides for the dedicated transmission facilities path between the customer's serving wire centers associated with the customer designated premises and the Company POP. The Mileage rate element is made up of two charges: a flat rate per circuit ("Fixed") and flat a per-mile rate ("Variable").

The Mileage rate element will be rounded up to the next mile for any fraction of a mile. For example, 0.001 miles will be charged at 1 mile. If both the Customer's designated premises and the Company's POP are within the same central office, Mileage charges will not apply.

7.8.1.2.2 Rate Application

The following chart designates the applicable Rate Elements based on the location of the Customer designated Premises.

<i>Locations of Customer Designated Premises</i>	<i>Applicable Rate Elements</i>
On-Net	Channel Termination charge(s);
Off-Net	Channel Termination charges; plus applicable Mileage Charges

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7. RATES AND CHARGES (Cont'd)

7.8 InterLATA Network Access (Cont'd)

7.8.1.2.2 Rate Application (Cont'd)

<b>On-Net- DS1</b>					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$158.59	\$355.00	N/A	N/A
	2yr	145.05	355.00	N/A	N/A
	3yr	133.90	355.00	N/A	N/A
<b>Off-Net- DS1</b>					
	1yr	\$356.83	\$355.00	\$46.66	\$21.40
	2 yr	326.36	355.00	42.77	16.25
	3 yr	301.27	355.00	38.89	14.32

<b>On-Net- DS3</b>					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$2,134.00	\$1,000.00	N/A	N/A
	2yr	2,134.00	1,000.00	N/A	N/A
	3yr	1,920.60	1,000.00	N/A	N/A
<b>Off-Net-DS3</b>					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$4,801.50	\$1,000.00	\$825.00	\$170.53
	2yr	4,801.50	1,000.00	825.00	162.01
	3yr	4,321.35	1,000.00	742.50	153.48

7. RATES AND CHARGES (Cont'd)7.8 InterLATA Network Access (Cont'd)7.8.1.2.2 Rate Application (Cont'd)

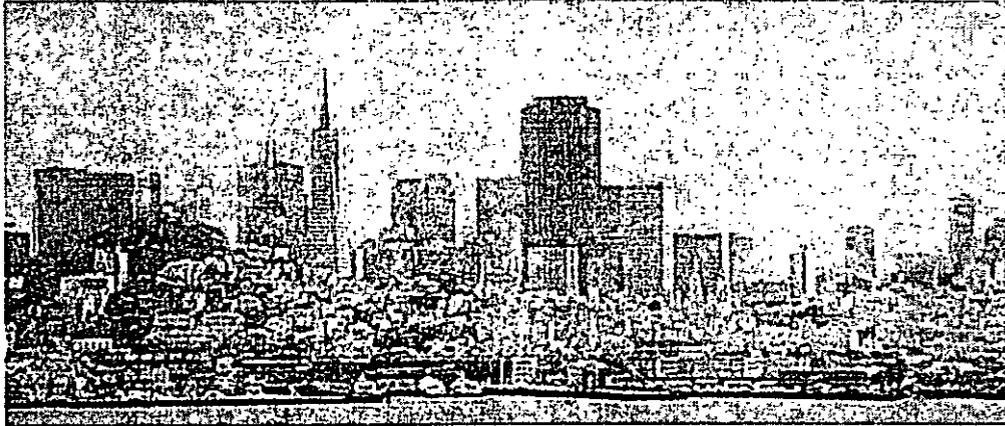
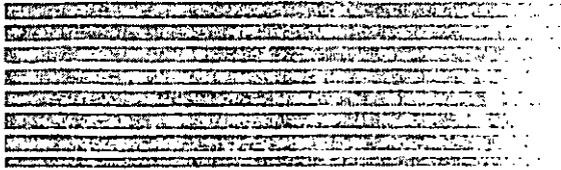
On-Net- DS1					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$158.59	\$355.00	N/A	N/A
	2yr	145.05	355.00	N/A	N/A
	3yr	133.90	355.00	N/A	N/A
Off-Net- DS1					
	1yr	\$356.83	\$355.00	\$46.66	\$21.40
	2 yr	326.36	355.00	42.77	16.25
	3 yr	301.27	355.00	38.89	14.32

On-Net- DS3					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$2,134.00	\$1,000.00	N/A	N/A
	2yr	2,134.00	1,000.00	N/A	N/A
	3yr	1,920.60	1,000.00	N/A	N/A
Off-Net-DS3					
		Channel Termination		Network Access Mileage Charge	
	Term	MRC	NRC-Installation	Fixed	Variable
	1yr	\$4,801.50	\$1,000.00	\$825.00	\$170.53
	2yr	4,801.50	1,000.00	825.00	162.01
	3yr	4,321.35	1,000.00	742.50	153.48

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## About Adelphia Business Solution:

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[Employment](#)

[Tariff:](#)

[Voice Service:](#)

[Internet Service:](#)

[Data Service:](#)

## Local Private Line (LPL)

Your business needs to exchange information between two points in a metropolitan area. We provide Local Private Line Services to satisfy that need on a network giving you guaranteed bandwidth, security and reliability.

Companies that want to keep their business running effectively between two separate locations in a metropolitan area need dedicated bandwidth to transfer voice, data and video. Adelphia Business Solutions' Local Private Line Services provide multiple bandwidth options to prevent network bottlenecks and increase productivity for any-sized business.

### Applications

Local Private Line service can connect your business to your long distance carrier or provide a dedicated connection to transmit voice, data or video between two locations in a metropolitan area for applications such as:

- Banking and security
- Legacy operations environments
- Video
- Disaster recovery
- High-capacity offsite storage

### Guaranteed Local Bandwidth - DS1 to OC-48

Adelphia's fiber optic SONET network provides a guaranteed bandwidth that is secure, reliable and flexible. Our fiber optic SONET network provides the dedicated bandwidth within a metropolitan area to keep your voice, data or video flowing reliably and securely. Whether your requirements include a DS-1 or an OC-48, Local Private Line Services are the answer to your point-to-point network needs.

### Network Availability

The cost of network outages can be astronomical. Weather-related incidents, traffic accidents and vandalism can cut a traditional network connection and interrupt your business communications. Adelphia Business Solutions' fiber optic SONET network is self-healing and quickly restores to ensure maximum network availability.

Your Local Private Line Service is monitored and maintained around the clock from our Network Operations Control Center (NOCC). The reliability of our SONET network ensures that even a cut cable won't prevent your network data from going through.

[Frame Relay](#)  
[Inter-city Private Line](#)  
[Gigabit Ethernet](#)  
[> Local Private Line](#)  
[Private Local SONET Ring](#)  
[Metro ATM](#)

**Network Security**

Keeping your data secure is a prime concern. Fiber optics are virtually impossible to tap. A dedicated network provides you with a private connection that prevents intruders from accessing your information.

**Adelphia Customer Care**

Our regional customer care team will set up your Local Private Line Services based on the exact requirements of your business, modify your service to accommodate growth, and inform you of enhancements and other options. In short, we'll provide you with the kind of customer care you should expect from your communications provider.

**Adelphia - A Platform for Productivity**

As one of the largest integrated communications providers in the country, Adelphia Business Solutions is your single source for a wide range of services and capabilities. Along with our Local Private Line Services, we also offer an array of local voice and data services, long distance, enhanced data, Internet and messaging services - all on our advanced fiber optic backbone.

Adelphia Business Solutions' network offers all the bandwidth your business needs to support current and future voice and data applications. Our network also utilizes self-healing ring architecture for superior reliability on which you can depend.

**Local Private Line Services Features:**

- Guaranteed bandwidth
- Reliable service
- Secure network
- Multiple bandwidth options
- Point-to-Point connection
- DS-1 to OC-48
- Within the same metropolitan area



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## Our Network

MCI's extensive global network is a key advantage for business customers of all sizes.

▶ **Our Company**

▶ **Our Network**

- ▶ Global Presence
- ▶ IP Dial-up PoP Numbers
- ▶ IP Latency Statistics
- ▶ DSL (On-Net) Latency Statistics
- ▶ Investor Relations
- ▶ Career Center
- ▶ Public Policy
- ▶ MCI Worldwide

MCI<sup>®</sup> owns, operates, monitors and maintains one of the largest communications networks in the world. Our network facilities are throughout North America, Latin America, Europe, Africa, and the Asia-Pacific region, in more than 125 countries and over 2,800 cities.

Our 98,000-mile fiber optic network is designed to support the largest array of data communications and voice products in the world.

MCI owns the world's farthest reaching global network (based on company-owned PoPs), and spans more than 4,500 Points of Presence (POPs) throughout the world, with 3.2 million global dial modems and high-capacity connections to more than 91,000 lit buildings. The global IP network can circle the globe more than four times.

MCI offers the fastest speeds available over IP today. We were the first to route and switch OC-192 IP network traffic. MCI also has the most scalable IP network available, offering speeds from dial to OC-48.

MCI's IP data solutions are directly built into a wholly-owned global network, for direct, safe, secure access.

Skilled technicians in Network Operations Centers around the world monitor the network for optimal efficiency 24 hours a day, 365 days a year.

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AT&T COMMUNICATIONS  
OF PENNSYLVANIA, LLC

Pa. P.U.C.-No. 17  
Canceling Pa. P.U.C.-No. 2  
SECTION 10  
ORIGINAL SHEET 1

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES

10.1. GENERAL

The Network Interconnection Services (NIS) available under this tariff consist of the following: Physical Network Interconnection Arrangements, Local Traffic Exchange and Interim Local Number Portability.

NIS is available only in connection with the termination of Local Traffic to End Users to whom the Company is able to terminate calls using Access Services as provided elsewhere in this tariff. NIS is only available to Customers who are facility-based Certified Local Exchange Carriers (CLEC), authorized by the Pennsylvania Board of Public Utilities to provide Local Exchange Service in Pennsylvania. The Company shall not be obligated to provide NIS to Customers that do not offer services comparable to NIS to the Company for the termination of Local Traffic originated by the Company. A CLEC providing Local Exchange Service using one or more unbundled network elements provided by another Carrier shall be deemed to be facility-based.

NIS availability is as set forth in Section 16.

10.1.1. Regulations

The provisions of Section 2 and Section 5 of this tariff shall apply to NIS unless otherwise specifically provided herein.

A. Service Rearrangements

Service rearrangements are as described in Section 2.4.1.C.2. All NIS rearrangements, except the "records only" changes set forth in Section 5.4.1.A., and the administrative changes set forth in Section 5.4.2., will be treated as disconnects and starts.

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES

10.2. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS

Physical Network Interconnection Arrangements provide the necessary facilities, equipment and connections to allow a Customer to terminate Local Traffic on the Company's network.

10.2.1. Obligations of the Company and the Customer

The Company and the Customer are each individually responsible for the installation, operation, and maintenance of the equipment and facilities on their own respective networks. The Company and the Customer will perform functions for each other which are reasonably necessary to engineer, install, maintain, and administer the facilities subject to this arrangement.

Except as may otherwise be agreed by the Company and the Customer, each party is responsible for the provisioning of the facilities within its own network up to the Point of Interconnection (POI) as set forth in 10.2.2. following.

The Customer and the Company shall exchange technical descriptions and forecasts of their interconnection and traffic requirements in sufficient detail to assure traffic completion to and from all customers within the exchange.

The Customer and the Company will cooperate to determine the performance of their respective networks and will implement joint management controls to further overall service integrity.

10.2.2. Establishing Points of Interconnection

The Company shall designate Points of Interconnection ("POI") at the Company's End Office, and at any other reasonable point on the Company's network. The Company and the Customer may establish a POI at other points by mutual agreement.

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES

10.2. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS (Cont'd)

10.2.2. Establishing Points of Interconnection (Cont'd)

The Customer is responsible for providing its own DS1 or DS3 facilities to route calls to the POI. Each party shall bear its own costs related to the provisioning and installation of its facilities. After installation of any facility, only Company personnel will be permitted access to the Company side of the POI for maintenance or any other purpose.

Subject to mutual agreement between the Customer and the Company, a Customer may terminate traffic on the Company's network in one of two ways: 1) separate trunk groups for Local Traffic and non-Local Traffic; or 2) on combined trunk groups.

The Customer will compensate the Company for terminating Local Traffic which the Customer delivers at the POI for termination on the Company's network in accordance with the Interconnection Agreement between the Company and the Customer.

A. DS1 Port Termination

The Company provides for the connection of a Customer's DS1 or DS3 facility at the POI, pursuant to charges set forth in the Price List.

1. DS1 Facility

Provided that facilities are available, at the Customer's option, dedicated DS1 facilities may be provided by the Company for termination at the Company's POI. These facilities transmit electrical signals at 1.544 Mbps with the capability to channelize up to 24 voice frequency transmission paths.

2. DS3 Facility

Upon request, the Company will provide for an arrangement that converts a DS3 channel operating at a terminating speed of 44.736 to 28 DS1 channels operating at a terminating speed of 1.544 Mbps using digital time compression multiplexing pursuant to charges set forth in the Price List. When the Customer elects to connect its DS3 facility via Company provided multiplexing, in addition to the multiplexing charges the Customer will also pay the charges for 28 DS1 Port Terminations.

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES

10.2. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS (Cont'd)

10.2.2. Establishing Points of Interconnection (Cont'd)

A. DS1 Port Termination (Cont'd)

3. 64 Clear Channel Capability

The Company, where available and at the Customer's request, will arrange the channels derived from a DS1 facility for 64 Clear Channel Capability pursuant to charges set forth in The Price List. This optional feature employs the Bipolar 8 Zero Suppression (B8ZS) technique to permit Customers to use full 64 Kbps bandwidth of a derived channel.

10.2.3. SS7 Interconnection

A Customer may connect to the Company's SS7 network in one of two ways:

1. On a shared use link and port. If a Customer chooses to connect to the Company's SS7 network using shared link(s) and port(s), the Company shall provide such link(s) and port(s) and the Customer shall pay the charges therefore, as set forth in the Price List, prorated as per a Percent Local Signaling Usage (PLSU) mechanism agreed upon by the Company and the Customer, or in full, if a PLSU has not been agreed to, or

2. The Customer and the Company agree on another signaling interconnection arrangement on an individual case basis.

10.2.4. Charges

The charges applicable to Physical Network Interconnection Arrangements are set forth in the Price List.

10.2.5. Collocation

Nothing in this tariff shall obligate the Company to provide physical collocation services to the Customer. Collocation arrangements, if any, will be made subject to availability and on an Individual Case Basis.

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Pa. P.U.C.-No. 17  
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PRICE LIST  
ORIGINAL SHEET 10

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES

10.1. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS

A. DS1 MONTHLY RATES

	USOC	Monthly Rate
DS1 Facility- Zero Mileage - per facility	SWCDZ	\$60.00
DS1 Facility- Other than Zero Mileage		
- per DS1	SWCDF	\$60.00
- per mile	SWCMF	\$17.70
DS1 Port Termination		
- per port (1-28)	SWCZ1	\$36.00
- per port (29-56)	SWCZ2	\$33.00
- per port (57-84)	SWCZ3	\$26.00
- per port (85-112)	SWCZ4	\$21.00
- per port (113-140)	SWCZ5	\$17.00
- per port (141-168)	SWCZ6	\$13.00
- per port (169 and above)	SWCZ7	\$12.00
DS3 to DS1 Multiplexing - per multiplexer	VUMDS	\$508.20

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OF PENNSYLVANIA, LLC

Pa. P.U.C.-No. 17  
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PRICE LIST  
ORIGINAL SHEET 11

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES (cont'd)

10.1. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS (cont'd)

B. DS1 RATES

	USOC	Nonrecurring Rates
DS1 Facility - Zero Mileage - per facility	NRWD2	N/A
DS1 Facility - Other than Zero Mileage - per facility	NRWD3	N/A
DS1 Port Termination - per port (first 168)	NRWZ1	\$267.00
- per port (169-300)	NRWZ2	\$175.00
- per port (301-500)	NRWZ3	\$125.00
- per port (501-750)	NRWZ4	\$75.00
- per port (751-1000)	NRWZ5	\$50.00
- per port (1001-and above)	NRWZ6	\$25.00
Installation Charges - per 24 trunks	NRWTK	\$1.00
Engineering Charge - per DS1 Trunk Group	NRWE3	ICB
DS3 to DS1 multiplexing - per multiplexer	NRWD1	\$600.00

C. 64 CLEAR CHANNEL CAPABILITY

	USOC	Monthly Rate	USOC	Nonrecurring Rates
Per DS1 arranged, per mile	S4CMF	\$0.00	NRWD4	\$0.00

8.5

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OF PENNSYLVANIA, LLC

Pa. P.U.C.-No. 17  
Canceling Pa. P.U.C.-No. 2  
PRICE LIST  
ORIGINAL SHEET 12

ACCESS SERVICES AND NETWORK INTERCONNECTION SERVICES

10. NETWORK INTERCONNECTION SERVICES (Cont'd)

10.1. PHYSICAL NETWORK INTERCONNECTION ARRANGEMENTS (Cont'd)

C. SS7 CHARGES

	USOC	Monthly Rate	USOC	Nonrecurring Rate
STP Link Termination - per Termination	SWCLT	\$0.00	NRWL3	\$0.00
STP Link Transport - fixed	SWCLM	\$0.00		\$0.00
- per Mile	8SCMF	\$3.50		\$0.00
STP Port - per port	SWCPP	\$900.00		\$0.00



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Find cost-effective access to network resources so your customers' employees, partners and suppliers - wherever you may be - can increase productivity and reduce time-to-market.

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For local, intrastate, or interstate communications, AT&T Private Line Services offer an array of choices, all with high availability and performance. Available in a wide variety of speeds ranging from Single Channel to OC-192.

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Provides dedicated, digital, end-to-end connections between US and non-US locations. Circuits of varying speeds can be land-based or provided by satellite in countries where the local infrastructure is not available.

[Your Product List](#)● [AT&T High Speed Packet Services](#)

For high-speed transport, high-level security and a network that can quickly scale to meet growth. AT&T offers industry leading Frame Relay and ATM services over AT&T's ATM switching backbone. The result is high reliability, low congestion, and consistent performance. Available for local, intrastate, interstate or international communications.

[Site Map](#)● [AT&T Interconnection Backhaul Service](#)

Provides the connection to reach your submarine and satellite capacity through facilities connecting to Cable Stations and Satellite Earth Stations.

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NH. 8-6

**TITLE SHEET**

**COMPETITIVE ACCESS PROVIDER TARIFF**

This tariff contains the regulations and schedule of intrastate telecommunications charges for competitive access services furnished by Looking Glass Networks, Inc. ("LGN") within the State of Pennsylvania. This tariff is on file with the Pennsylvania Public Utility Commission, and copies may be inspected, during normal business hours, at Company's principal place of business, 18 W. 140 Butterfield Rd., 16<sup>th</sup> Floor, Oakbrook Terrace, IL 60181.

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Issued: August 16, 2000

Effective: February 2, 2001

Issued By: Jodi J. Caro, General Counsel  
Looking Glass Networks, Inc.  
18 W. 140 Butterfield Rd., 16<sup>th</sup> Floor  
Oakbrook Terrace, IL 60181

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**5. SERVICE DESCRIPTIONS AND TECHNICAL STANDARDS (Cont'd)****5.4 Looking Glass Private Line Access Service**

Looking Glass Private Line Access Service is a point-to-point and multi-point service which provides customers access to private telecommunications networks, wide area networks, connections with information service providers and interexchange carriers who transport interstate traffic.

**5.4.1 Looking Glass Private Line Access Service is available at varying transmission speeds as follows:**

5.4.1.1 Digital Data Service: Digital data service provides the duplex four-wire transmission of synchronous serial data at rates ranging from 2.4 to 64 kbps (DS0).

5.4.1.2 High Capacity Service (DS-1): High capacity service provides transmission of synchronous serial data at speeds of 1.544 or 2.048 Mbps -Transmission of intermediate bit rate channels in multiple increments of either 56 or 64 kbps up to 1.544 Mbps is also available.

5.4.1.3 Very High Capacity Service (DS-3): Very high capacity service provides transmission of synchronous serial data at speeds of 44.736 Mbps or faster.

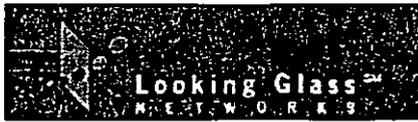
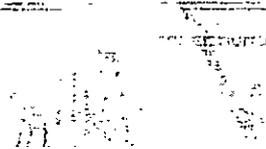
5.4.1.4 Looking Glass Private Line SONET Service: Looking Glass Private Line SONET Service, provides transmission of data at speeds of 155 Mbps or higher through an optical signal on the Synchronous Optical Network (SONET) in Type 1 network configurations. OC3 (155 Mbps) and OC12 (622 Mbps) speeds are available in either concatenated or channelized configurations. OC48 (2.5 Gbps) is available in channelized form.

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## Products/Services > Dark Fiber

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### Dark Fiber

We provide the dark fiber you need where, when and how you need it. Our DarkGLASS<sup>SM</sup> dark fiber solutions offer flexible, fixed-cost access to virtually unlimited capacity. You get the security advantages of ring configuration and exclusive use of each fiber pair plus end-to-end control of speed and bandwidth with the option of supplying your own electronics.

Our metro networks are built to carry extraordinarily high capacity - up to 864 strands of fiber. Because we build, own and maintain our networks, we are physically diverse from other fiber providers and can bring the dark fiber and fiber infrastructure you want wherever you need it. You benefit from our scalability and flexibility as we expand our footprint to meet your changing needs.

Our technologically advanced, high-grade fiber optic cable supports the full spectrum of bandwidth applications including disaster recovery, data warehousing, mirroring, streaming audio/video, distance learning and multiple technologies such as IP, SONET/SDH, DWDM, Fibre Channel, ATM, Frame Relay and Gigabit Ethernet. Our presence at data aggregation points in the top U.S. metro areas ensures reliable access to IXC, ISP, ILEC and CLEC locations as well as Web hosting facilities and data centers.

#### Why DarkGLASS?

- Virtually unlimited capacity
- Flexibility to build to meet your specific needs
- Redundant networks connected to major data aggregation locations
- Support for all applications and technologies
- Your choice of access options

#### Product Features

##### Dark Fiber Access Where You Need It

With connectivity in primary Carrier Hotels, ILEC Central Offices (COs) and key enterprise buildings in major U.S. metro markets, DarkGLASS connects you where you need to be. Depending on your location and requirements, we offer the following access options:

- Zero manhole - Street-level access at Looking Glass manholes
- Point of Presence (POP) - Access at Looking Glass termination panels in buildings where Looking Glass maintains a presence
- Customer location - Termination at the customer's location
- ILEC Central Office - Access via the Looking Glass collocation area inside the ILEC central office

#### At the Leading Edge of Fiber

Our technologically advanced, high-grade fiber optic cable supports the full spectrum of bandwidth applications.

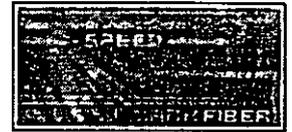
#### Quality and Security

Our commitment to network quality and security is second to none, and is evident throughout our operations. Quality and security play a prominent role at our national Network Operations Control Center (NOCC), where we provide performance monitoring, alarm surveillance and expert support and service 24x7. Additionally, we participate in local One Call, Call Before You Dig, Dig Safe and Dig Alert programs.

#### Product Brochure


[DarkFiber.pdf](#)

### Dark Fiber



Flexible, fixed-cost access to virtually unlimited capacity.



For more information contact: [sales@lglass.net](mailto:sales@lglass.net)

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Products &amp; Services

## AboveNet Transport Services - IP Bandwidth

Pure IP Bandwidth at its best.

AboveNet's IP Bandwidth offerings overcome bandwidth limitations by giving you fast, reliable IP connectivity to the Internet within all major metropolitan areas—all over AboveNet's optical Internet long-haul backbone. AboveNet IP Bandwidth Services ensure that your data arrives quickly and reliably, whether you need easily managed Internet access from your cage in an AboveNet Data Center or direct access to the Internet backbone. In addition, AboveNet's customers include major top-tier ISPs. AboveNet IP Transport Services give you fast, direct "on-net" routing to the most in demand Internet networks and sites.

AboveNet IP Bandwidth Services also give you a cost-effective path to AboveNet's extensive dark fiber infrastructure, which provides virtually unlimited, unmetered bandwidth at a fixed cost as well as access to our IP backbone. With AboveNet, you can control the growth and development of your own, private, facilities-based network and gain the benefits of dark fiber-unlimited capacity, speed, flexibility, security and reliability.

### Access Based on Your Needs

AboveNet IP Bandwidth Services are designed to meet your specific requirements for IP connectivity. They include:

**Simple Internet Access** - This cost-effective service provides easily managed Internet access from your cage in an AboveNet Data Center. Once your order is complete, we'll provide you with a gateway IP address, DNS address and IP address, and turn on your connection, typically within 24 hours.

**Direct Internet Access** - For carriers and enterprises that need the fastest and most robust Internet connectivity available, this service extends Border Gateway Protocol (BGP) routes directly to you, giving you the ability to effectively control your Internet traffic. We can connect you from a variety of POPs, including telco hotels, PAIX locations and AboveNet Data Centers.

### Highest Levels of Reliability

AboveNet IP Bandwidth Services ensure that your customers never find your network unavailable. In our Service-Level Agreements (SLAs) guarantee 100 percent uptime. Multiple, redundant fiber connections into data centers eliminate any single point of failure and the possibility of downtime from man-made or natural disasters. Redundant network connections are also available.

### IP Bandwidth Services Highlights:

- Direct paths to the Internet from all major metro areas over a 100% fiber optic network
- Lightning-fast connectivity, with speeds up to OC-48 (OC-192 in some locations)
- Rich peering relationships put you closer to destination networks on the Internet
- Redundant fiber connections eliminate single points of failure
- 100% uptime SLAs
- Massively over-provisioned network ensures bandwidth availability
- "On-net" direct routing to major providers such as AOL and MSN
- Flexible connection options
- Cost-effective path to AboveNet's dark fiber infrastructure, which offers unlimited, unmetered bandwidth at a fixed cost.

**AboveNet, Inc.  
Emerges From  
Chapter 11  
Bankruptcy with N  
Financial Backing.  
Strong Cash Posit  
and Low Debt**

**MFN's Disclosure  
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**Contact AboveNet  
Today!**



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Discover the power of unconstrained information exchange on an all-optical infrastructure to revolutionize productivity and transform your business.

**AboveNet. It's about time.**

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# MFN is becoming...



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## MFN Network Services

- MFN Optical Fiber
  - Dark Fiber
  - DWDM Service
- Long Haul Services
- MFN Managed Services
- MFN Internet Services
- MFN Carrier Services

## Dark Fiber

### Meeting Demand At A Fixed Cost

Every first year economy student is taught that as demand increases prices follow. MFN is changing the way that bandwidth is priced. When you lease MFN dark fiber the cost of your fiber will never go up, no matter how much bandwidth you utilize. MFN fiber is priced at a fixed-cost.

With MFN's dark fiber, you can meet your growing bandwidth demands both quickly and cost-effectively. When you lease dark fiber from MFN you gain your own private optical network giving you the flexibility, security, and reliability you need to manage your own infrastructure today and for years to come while keeping cost constant.

### Staying ahead of demand

With currently available technology, a single strand of fiber can transmit over 2 terabits of information per second - this number is increasing rapidly. Utilizing MFN's optical fiber you not only meet your growing need for bandwidth but you stay ahead of the demand curve by adding more capacity quickly and cheaply.

With MFN's dark fiber optical network you gain the benefits of:

### Unparalleled security

As the only user of your fiber you can rest assured that no other traffic is on your network and no one can access your data. Not simply just a secure network, but a sovereign one.

### Flexibility

Since you control your own infrastructure you decide how much capacity to use and the types of equipment that best meet your needs.

Whether you choose to utilize one of MFN's managed optical solutions or run your own network, you have a wide range of transport protocols and applications available to use:

- Disaster Recovery
- Storage Networks
- Data Mirroring
- Video Conferencing
- Distance Learning
- IP
- SONET
- DWDM
- ATM
- Gigabit Ethernet

MFN can provide the expertise to manage or assist you in managing your network. We offer a wide variety of network services and connectivity options.

## QUICK LINKS:

### White Paper

MFN: The Sum of the Whole is Great the Parts  
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### Press Releases

Electronic Arts Selects Metromedia F Network To Support EA.com in Japan  
 Japan's Most Popular Online Game Seamlessly Transitions To MFN's Data Center for Superior Co-Location and Connectivity

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Find out about your area of interest:

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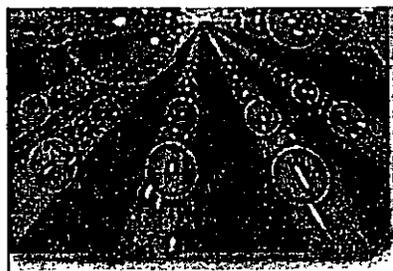
## Welcome to City Signal Communications!

City Signal Communications (CSC) delivers metro dark fiber solutions enabling service providers and enterprise customers to deploy broadband applications.

Located in key Mid-Atlantic and Mid-West markets of the United States, our multi-ring networks allow carriers access to a number of highly desirable, yet underserved, metropolitan areas already experiencing explosive commercial and residential growth.

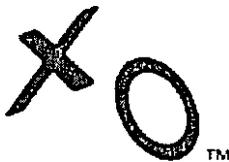
Our strategy is to push the edge of our networks not only into the dense central business districts, but also to ring the suburban commercial centers as well.

Founded in 1999 and based in suburban Philadelphia, PA, the company has received funding by M/C Venture Partners, BB&T Capital Partners and Bank of America.



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### Product Portfolio

XO Product Solution	Product Advantage
<a href="#">Carrier Long Distance Termination</a>	With Carrier Long Distance Termination, you can complete interstate calls in all 50 states and intrastate calls in the 48 continental states (excludes AK and HI) with only one interconnection.
<a href="#">High-Speed Dedicated Internet Access</a>	High-Speed Dedicated Internet Access provides unlimited high capacity Internet access via non-shared, non-fractional lines.
<a href="#">Inbound PRI (Primary Rate Interface)</a>	Inbound PRI is a 100% digital circuit designed for organizations that provide dial Internet access to end-users and employees.
<a href="#">Wholesale Dial-Up</a>	Wholesale Dial-Up gives you maximum flexibility in offering highly reliable Internet access while maintaining control of your own subscriber accounts.
<a href="#">Carrier Private Line</a>	Carrier Private Line typically consists of non-switched communications circuits and the required equipment to connect two or more locations. Long-haul and local circuits are available in a variety of configurations.
<a href="#">Collocation</a>	Collocation provides secure, controlled carrier-class space and network access for carriers, such as CLECs (Competitive Local Exchange Carriers), IXCs (IntereXchange Carriers) and ISPs (Internet Service Providers).
<a href="#">Wavelength Services</a>	Dedicated connections between sites using Wave Division Multiplexing. Available at OC-12, OC-48 and OC-192 capacities
<a href="#">SONET Services</a>	Allows the transmission of large voice, image and data files by maximizing the high-speed capacity of fiber-optic cables

### See Also

- [Learn More About the XO™ Network](#)
- [XO Available Markets](#)