

“Design of Spectrum Auctions.” Presented at the Annual Meeting of the IMF and World Bank Group. Washington, D.C. 1996.

“Competition the Easy Way (or the Hard Way).” Presentation at the *Primer Encuentro Regional de Organismos Reguladores de Telecomunicaciones de América Latina y el Caribe*. Lima, Perú. May 22, 1996.

“A Future Growth of Competition in Local Telecommunications.” Presented at a symposium for discussing Japanese telecommunications policy with special reference to the market dominance of NTT. Sponsored by Gakushuin University, Faculty of Economics. Tokyo, Japan. June 7, 1995.

“Trends and Information Technology.” Presented to the *North Carolina Association of County Budget Officers*. Atlantic Beach, North Carolina. August 5, 1994.

“Comments on Issues of Costing and Pricing.” Presented at the *International Conference on the Economics of Radio-Based Telecommunications*, CREST. Paris, France. June 23-24, 1994.

“Transition to Competition Outside the United States: Current Trends and Issues.” Speech presented at The Brookings Institution. Washington, D.C. October 15, 1992.

“Economic Issues Relating to Privatization of Telecommunications.” Presented to the *Conference on Network Economics*. Sapporo, Japan. July 23-27, 1990.

“The Present Status of Research on Network Economics.” Presented to the Institute for Posts and Telecommunications Policy. Tokyo, Japan. July 20, 1990.

“Comment on Incremental Capital Costs of Telephone Access and Local Usage.” Presented at the *20th Annual Williamsburg Conference*. Williamsburg, Virginia. December 1988.

“Aggregate Consumers’ Surplus: No Apology But Some Caution.” Presented at Stanford University and University of California. Berkeley, California. January 1982.

“Return for Risk and the Term Structure of Interest Rates.” Presented to the Econometrics Society. Dallas, Texas. 1975.

“Analysis of Demand for Video Communication.” Presented at *2nd Annual Telecommunications Policy Research Conference*. Airlie, Virginia. 1974.

**OTHER CONSULTING ASSIGNMENTS FOR
GOVERNMENTAL ORGANIZATIONS**

Advisor to Ofel (U.K. telecommunications regulator) on a wide range of regulatory issues, 1989-2000.

Advisor to CONATEL (regulatory authority in Venezuela), 2000-2001.

Advisor to OSIPTEL (Peruvian telecommunications regulator), 1996-2000.

Advisor to Office of Utilities Regulation ("OUR"), Jamaica, W.I., on establishing a regulatory framework for the telecommunications sector, 1996-2001.

Advisor to Comisión Nacional de Telecomunicaciones—CONATEL (regulatory authority in Paraguay), 1999-2000.

Advisor to CONAM (regulatory authority in Ecuador), 1999-2000.

Advisor to Comisión Nacional de Telecomunicaciones—CONATEL (regulatory authority in Honduras), on drafting service-specific regulations for telecommunications services, 1998.

Advisor to City of San Diego, California, with regard to negotiations involving spectrum licenses, 1996.

Advisor to *Secretaria de Comunicaciones y Transportes* (Mexican telecommunications regulator) under the auspices of the World Bank and Inter-American Development Bank, 1989-1990.

Advisor to the New Zealand Treasury and Ministry of Commerce with regard to the privatization of Telecom New Zealand, 1989.



REPLY DECLARATION OF JEFFREY H. ROHLFS AND
JOSEPH H. WEBER

EXHIBIT 3

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)	
)	
Unbundled Access to Network Elements)	WC Docket No. 04-313
)	
Review of the Section 251 Unbundling)	CC Docket No. 01-338
Obligations of Incumbent Local Exchange)	
Carriers)	

**REPLY DECLARATION OF JEFFREY H. ROHLFS AND
JOSEPH H. WEBER
SUBMITTED IN SUPPORT OF THE COMMENTS OF
THE VERIZON TELEPHONE COMPANIES**

**EXHIBIT 3
CV of Joseph H. Weber**

JOSEPH H. WEBER

Received a Bachelor of Electrical Engineering from Rensselaer Polytechnic Institute, and a M.S. in Engineering from George Washington University.

Mr. Weber had almost 30 years of telecommunications experience with AT&T and Bell Labs. He spent a number of years developing methods and theories for designing telecommunications networks at Bell Labs, including management of a group responsible for network configuration planning. He subsequently directed the development of engineering data processing systems at AT&T Long Lines before returning to Bell Labs as Director of Network Services Planning. In this position he was responsible for implementation of the FCC's terminal equipment registration program, and for the functional design of new network services being offered by AT&T.

Mr. Weber moved to AT&T General Departments in 1980, where he became Director of Technical Standards and Regulatory Planning. In this position he was responsible for the technical aspects of all of AT&T's Federal regulatory, legal and legislative activities. He was the principal AT&T expert resource in designing the technical parts of the MFJ, the basic document which set out the terms of the AT&T divestiture. During the planning for divestiture he was responsible for establishing interconnection arrangements between AT&T and the BOCs, and for the methods for determining how the Bell System's network assets were to be divided between AT&T and the newly formed RBOCs.

After divestiture, he served as Director of Network Architecture Planning at AT&T, where he was responsible for the evolving architecture of the intelligent network.

After leaving AT&T, Mr. Weber worked as Vice President of Technology for Global Transactions Systems, a new venture sponsored by AT&T and Telerate to develop a new currency trading communications system. He then, with some associates, founded T.E.L.A. Group, which provided telecommunications policy, economics and technology consulting services for telephone companies and state commissions, specializing in the development of telecommunications infrastructure plans. He continued these activities as a partner in Weber Temin & Co., which succeeded T.E.L.A. Group. Weber Temin merged with SPR in 1998.

EDUCATION

GEORGE WASHINGTON UNIVERSITY
Master of Science in Engineering, 1959

RENSSELAER POLYTECHNIC INSTITUTE
Bachelor of Electrical Engineering, 1952

EMPLOYMENT

1998-Present STRATEGIC POLICY RESEARCH, INC.—Bethesda, Maryland
Principal and Director. Evaluation of telecommunications technologies in the context of telecommunications policy.

1994-97 WEBER TEMIN & CO. (“WTC”)—Convent Station, New Jersey
Founder and Managing Partner. Telecommunications policy, economics and technology consulting services.

1989-94 T.E.L.A. GROUP—Convent Station, New Jersey
Founder and Partner. Telecommunications policy, economics and technology consulting services.

1987-88 GLOBAL TRANSACTION SYSTEMS, INC.—Parsippany, New Jersey
Vice President—Technology. Design of a computer communications network to support global currency transactions.

1984-87 AT&T—Basking Ridge, New Jersey
Director of Network Architecture Planning. Design of the architecture for AT&T’s global intelligent network.

1980-84 AT&T—Basking Ridge, New Jersey
Director of Technical Standards and Regulatory Planning. Preparation of technical information in support of AT&T’s Federal legislative, regulatory and judicial activities. Coordination of AT&T positions in standards forums.

1975-1980 BELL TELEPHONE LABORATORIES—Holmdel, New Jersey
Director of Network Services Planning. Functional design of new AT&T network services.

- 1974-75 AT&T LONG LINES—New York, New York
Director of Data Processing. Methods, procedures and standards for AT&T Long Lines data systems.
- 1972-74 AT&T LONG LINES—New York, New York
Director of Administrative Practices. Functional design of all engineering data processing systems in AT&T Long Lines. Life studies of telephone plant.
- 1956-72 BELL TELEPHONE LABORATORIES—New York, New York and Holmdel, New Jersey
Miscellaneous Assignments. Traffic Theory and Network Planning.
- 1953-56 U.S. NAVY—Norfolk, Virginia and Washington, D.C.
Ensign, Lieutenant(jg). Sea duty aboard a destroyer. Shore duty in Washington at the Office of Naval Materiel.
- 1952-53 HAZELTINE ELECTRONICS CORPORATION—Little Neck, New York
Test Engineer. Military electronics equipment such as listening Sonabuys.

PROFESSIONAL ACTIVITIES

Senior Member, IEEE

TESTIMONIES

Rebuttal Testimony on behalf of Southwestern Bell Telephone L.P. d/b/a SBC Texas. Before the Public Utility Commission of Texas. *Impairment Analysis of Local Circuit Switching for the Mass Market.* Docket No. 28607. March 19, 2004.

Testimony on behalf of Qwest Corporation. Before the Washington Utilities and Transportation Commission. *In the Matter of the Petition of Qwest Corporation to Initiate a Mass-Market Switching and Dedicated Transport Case Pursuant to the Triennial Review Order.* Docket No. UT-033044. Direct: December 22, 2003. Responsive: February 2, 2004. Rebuttal: February 20, 2004.

Direct Testimony on behalf of Qwest Corporation. Before the Public Utilities Commission of the State of Colorado. *Regarding the Unbundling Obligations of*

*Incumbent Local Exchange Carriers Pursuant to the Triennial Review Order—
Initial Commission Review, Docket No. 031-478T. January 26, 2004.*

Direct Testimony on behalf of Qwest Corporation. Before the Minnesota Office of Administrative Hearings for the Public Utilities Commission. *In the Matter of the Commission Investigation Into ILEC Unbundling Obligations as a Result of the Federal Triennial Review Order.* MPUC Docket No. P-999/CI-03-961 and OAH Docket No. 12-2500-15571-2. January 23, 2004.

Direct Testimony before the Public Service Commission of Utah. *In the Matter of a Proceeding to Address Actions Necessary to Respond to the Federal Communications Commission Triennial Review Order Released August 21, 2003.* Docket No. 03-999-04. January 13, 2004.

Testimony before the New Zealand Commerce Commission regarding the issues of loop unbundling and wireless competition in the local telephone network. November 2003.

Testimony on behalf of Verizon-PA (formerly Bell Atlantic-PA). Before the Pennsylvania Public Utility Commission in Docket No. M-00001353 (Structural Separation). November 16, 2000.

With Peggy L. Rettle and Harry M. Shooshan III. Affidavit filed on behalf of Minnesota Telephone Association in CC Docket No. 98-1. March 6, 1998. *Response to State of Minnesota Reply Comments.* December 22, 1998.

Testimony filed with the Kansas Public Service Commission in CC Docket No. 97-SCCC-149-GIT on behalf of Southwestern Bell Telephone Company, June 1998.

Testimony before the New Jersey Board of Public Utilities. Arbitration with *AT&T in Connection with Section 252 of the Act of 1996.* On behalf of Bell Atlantic-NJ, Docket No. T096070519. September 18, 1996.

Affidavit filed on behalf of Southwestern Bell in FCC Docket No. 96-98 concerning network unbundling. May 29, 1996.

Testimony before the Kansas Legislature (both houses). In Support of the Strategic Plan, published by the Telecommunication Strategic Planning Committee. January 1996.

Testimony before the Tennessee Public Service Commission. On behalf of South Central Bell. May 30, 1995.

Affidavit filed on behalf of New Jersey Bell's 214 Application for Video Dialtone. February 3, 1993.

Testimony before the Connecticut Department of Public Utility Control. On behalf of the Department. In Support of the Connecticut Telecommunication Study, Docket No. 91-10-06. 1993.

Testimony before the New Jersey Board of Regulatory Commissioners. On behalf of New Jersey Bell. In Support of Opportunity, New Jersey, Docket No. 92030958. 1993.

Testimony before the New Jersey Assembly Transportation Authorities, Telecommunications and Technology Committee. On behalf of New Jersey Bell. January 6, 1992.

Testimony before the Tennessee Public Service Commission. Filed on behalf of the Commission in Support of the Telecommunications Technology Deployment and Master Plan Development Report. October 3, 1990.

PUBLICATIONS, REPORTS, SUBMISSIONS & SPEECHES

“The fragmentation of America’s telecommunications system: The operational implications of network unbundling.” *Information Economics and Policy*. Vol. 15/2. June 2003. (Pages 201-222.)

With John Haring, Jeffrey Rohlfis and Harry M. Shooshan. *Intercarrier Compensation to Promote Efficiency of the Local Telecommunications Sector*. *Ex Parte* filing before the FCC. June 3, 2002.

“The Fragmentation of America’s Telecommunications System.” *Perspectives*. December 1, 2000.

With John Haring and Kirsten M. Pehrsson. *Channel-Carrying Capacity of DBS Systems*. Prepared for America’s Public Television Stations (“APTS”). November 17, 2000.

With Harry M. Shooshan III and Peter Temin. *MaCable.com: Closed v. Open Models for the Broadband Internet*. Prepared for the OpenNET Coalition. October 15, 1999.

With Jeffrey H. Rohlfis and Calvin S. Monson. “TELCOMP[®]—A Model for Determining the Viability of Local Exchange Competition. Presentation to the *Telecommunications Policy Research Conference*. Alexandria, Virginia. September 26, 1999.

Channel Capacities of Current and Potential Future Direct Broadcast Satellite (DBS) Systems. Prepared for ALTV. September 21, 1999.

With others. *TELCOMP[®] Model Version 1.4*. Submission before the Federal Communications Commission (“FCC”). June 17, 1999.

With others. Submission before the FCC in *Second Further Notice of Proposed Rulemaking, in the Matter of Implementation of the Local Competition Provisions*

in the Telecommunications Act of 1996. CC Docket No. 96-98. *Comments of Strategic Policy Research, Inc.* May 25, 1999. *Reply Comments.* June 10, 1999.

With John Haring and Harry M. Shooshan III. *Cable System Capacity: Implications for Digital Television Must-Carry.* Prepared for the National Association of Broadcasters for submission before the FCC, *In the Matter of Carriage of the Transmission of Digital Television Stations*, CS Docket No. 98-120. October 13, 1998.

With Peter Linhart. "On Cost-Based Pricing for Regulation." Paper presented at the Technical Policy Research Conference. September 1997.

With John Haring. *Evaluation of the Efficiency of BT's Network Operations.* Report prepared for the Office of Telecommunications "OFTEL"). United Kingdom. June 1997.

With Peter Temin. "The Modification of Final Judgment, Its Logic and Echoes." University of Florida, *Journal of Law and Public Policy.* Vol. 8. No. 2. Spring 1997.

With Peter Temin. "Introducing Competition into Local Exchange Markets." *Journal of Telecommunications Policy.* Vol. 20. No. 6. 1996.

New Jersey Infrastructure Analysis. Report prepared for Bell Atlantic-New Jersey. October 1996.

"Evolving Services and Technologies." Paper prepared for the Kansas Telecommunications Strategic Planning Committee. April 1, 1995.

"A Study of State Policies toward the Development of the Information Infrastructure." Paper prepared by the T.E.L.A. Group for NTT. January 27, 1994.

The Connecticut Telecommunications Study. Report prepared for the Connecticut Department of Public Utility Control in Docket 91-10-06 by the T.E.L.A. Group. September 8, 1992.

Opportunity New Jersey. Report prepared for New Jersey Bell and submitted to the New Jersey Board of Public Utilities in Docket 92030958. March 1992.

Telecommunications Technology Deployment and Master Plan Development. Report prepared for the Tennessee Public Service Commission. RCG/Hagler, Bailly, Inc. July 12, 1990.

With Richard Roca. "The AT&T Architecture: Evolving to an Integrated Services Digital Network." Paper presented at the *Third International Network Planning Symposium — NETWORKS '86.* Tarpon Springs, Florida. June 1986.

"AT&T Communications' Digital Network Evolution." Paper presented at the *Seventh International Conference on Computer Communication.* Sydney, Australia. October 30-November 2, 1984.

“AT&T Restructure 1982-1984: Its Causes and Effects.” *Journal of Telecommunication Networks*. 1983.

“Economies of Scale vs. Specialization—Parameters of Choice.” Paper presented at the *Fifth Data Communications Symposium*. Snowbird, Utah. September 1977.

“A Simulation Study of Routing and Control in Communications Networks.” *Bell System Technical Journal*. November 1964.

“Some Traffic Characteristics of Communications Networks with Automatic Alternate Routing.” *Bell System Technical Journal*. March 1962.

“Traffic Efficiencies in Congested Band Radio Systems.” *Proceedings of the IRE*. November 1960.

PRINCIPAL CONSULTING PROJECTS

Preparation of TELCOMP[®], a program to evaluate the financial attractiveness of entry into the local exchange market.

Helped to develop a cost analysis of the provision of competitive access (Peru).

Conducted an evaluation of British Telecom's (BT's) network design, management and operations on behalf of OFTEL. This activity, a joint effort of Weber Temin and Strategic Policy Research, took place during the first half of 1997, focusing on BT's telephone operations in the U.K., including both local and long-distance services, and the interfaces with competitive carriers. It involved an examination of both BT's operational efficiency and the ability of BT to continue to meet the burgeoning requirements for telecommunications services in the U.K. A report of the study was published by OFTEL in June 1997, and the results were used in the establishment of the regulatory price cap for BT's network services.

Along with Dr. Peter Temin of Weber Temin & Co., developed a telecommunications strategy for the state of Kansas. This activity was sponsored by a joint Legislative/Industry Committee (entitled the Telecommunications Strategic Planning Committee). The project included the preparation of a report on emerging technologies and services, and the development of a policy structure for the telecommunications industry which would foster the introduction of competition and the provision of a wide variety of services to all Kansans at affordable prices.

Participated in a management audit of the GTE Company's telephone operations in Pennsylvania sponsored by the Pennsylvania Public Utility Commission as subcontractor to Doherty & Co. Acted as lead consultant in the areas of Network Planning and Network Modernization.

Along with his partners in T.E.L.A. Group, prepared a study of the current and future telecommunications infrastructure, pricing practices and regulatory structure in the state of Connecticut for the Connecticut Department of Public Utility Control.

Assisted Bell of Pennsylvania in its network modernization and regulatory reform initiatives, which were adopted by the Pennsylvania Public Utility Commission.

Developed a network infrastructure plan for New Jersey Bell entitled "Opportunity New Jersey" which, in conjunction with a plan for incentive regulation, has been adopted by the New Jersey Board of Regulatory Commissioners. Presented testimony before the Commission.

Developed a Master Plan for Telecommunications for Tennessee. This plan, which was sponsored by the Tennessee Public Service Commission, was adopted, in conjunction with a regulatory reform plan, as a blueprint for telecommunications evolution in the state under the title "FYI Tennessee." Was the Commission's principal witness in hearings on the plan. This work was done as a subcontractor to RCG/Hagler, Bailly, Inc.

Analyzed the useful and effective life of cellular telephone and PCS licenses on behalf of the Internal Revenue Service.

**ATTACHMENT J
CARRIER MATERIALS**

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AboveNet Access Services

Rise above legacy PSTN infrastructure.

The term "last mile" is often used to describe a constraint on information exchange. Network access in the last mile can be limited to copper infrastructures and central office architectures. That means rate limited circuit-based capacity and strict compliance with complex telecom protocols. Additionally, telecom services likely operate over a PSTN infrastructure your business must share with countless others.

AboveNet views the last mile as an opportunity for your business to break free of legacy PSTN infrastructure and benefit from unconstrained information exchange. AboveNet Access Services bypass the copper local loop by delivering private fiber connectivity and end-to-end optical performance directly to your office. You're in control. You choose your technologies, applications, protocols, capacities and destinations.

AboveNet Metro IP Service.

AboveNet connects your corporate Ethernet LAN from your office to our global IP backbone using gigabit Ethernet connections over private fiber. Experience ultra-broadband direct Internet access that bursts on-demand and can be billed in 1Mbps increments according to your actual usage.

AboveNet Dark Fiber Services.

Using point-to-point and ring configurations, build a private optical network that fits the needs of your business.

AboveNet Building Access Services.

AboveNet has hundreds of network access points and commercial buildings on-network to enhance the reach and value of your private optical network. Single- and dual-entrance solutions are available to meet your network redundancy objectives.

AboveNet In-Building Distribution Services.

Network demarcation points can be flexibly located using in-building risers. AboveNet is not limited to carrier entrance facilities, but can build directly to your office suite.

AboveNet Custom Network Solutions

AboveNet can build customer-defined networks precisely tailored to your needs.

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

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Direct Access for Carriers



Building Access, Optical Access Ramp (BA-OARs)

AboveNet's extensive private metropolitan networks have been designed to provide direct access to carrier hotels, data centers and key commercial office buildings. AboveNet provides connectivity and distribution to key buildings that dramatically reduces the cost and time to market for our carrier customers.

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CO/Optical Access Ramp

In the competitive telecommunications industry, access and bandwidth are the keys to success. With AboveNet's Central Office Optical Access Ramp (CO-OAR) Services, these elements have come together to provide a unique product for today's service providers. Utilizing a unique configuration that provides a universally accessible distribution point within RBOC central offices and tandems, CO-OAR allows carriers to rapidly connect directly from AboveNet's fiber backbone into ILEC network.



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Maps

The result - fast and easy co-location combined with virtually unlimited bandwidth. A truly competitive advantage.

Central Offices Optical Access Ramps Services includes:

- Direct Access - carriers connect from their POP into the Bell Atlantic COs and tandems via the AboveNet backbone with a pre-specified fiber count.
- Fast - fiber presence is pre-established within each CO; allows for fast connection to co-location space and unbundled elements.

Many Needs, Many Services

Along with CO/Optical Access Ramp product, you can utilize a variety of AboveNet products and services specifically designed to meet the needs of carriers, ISPs, IXC's, and CLECs. Starting with dark fiber, the core of our optical services portfolio, you can build upon this infrastructure and utilize our Co-location and Long Haul services. By adding these additional products you can fully leverage the virtually unlimited potential of your optical network.

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

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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 fact, 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.



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AboveNet Access Services - Dark Fiber

Meeting Demand At A Fixed Cost

Over the last several years Abovenet has focused on the last mile, laying thousands of miles of fiber-optic cable in major metropolitan areas throughout the US and Europe. Abovenet has delivered metropolitan area optical networking to bandwidth-starved businesses previously boxed in by copper, complexity, and high cost. By tapping into AboveNet's extensive metropolitan area network, you can manage your communication costs while reaping the benefits of fiber's virtually unlimited bandwidth capabilities. As our network continues to expand, we can help you grow your business, entering new markets and connecting facilities to your communication infrastructure.

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

With AboveNet's dark fiber, you can meet your growing bandwidth demands both quickly and cost-effectively. When you lease dark fiber from AboveNet 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 AboveNet'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 AboveNet'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 Abovenet'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



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- IP
- SONET
- DWDM
- ATM
- Gigabit Ethernet

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

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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AGL Networks



Company Overview

Growing With — and For — Our Customers

AGL Networks provides exceptional value to its customers by offering the critical last mile connectivity between telecommunication service providers and business locations. Specifically, AGL Networks:

- Owns and operates a 175-mile fiber network in the metro Atlanta area
- Owns and operates a 60-mile fiber network in the Phoenix central business district and select areas beyond
- Provides high capacity transport services to carrier, wireless and enterprise companies as well as government, health care and educational institutions
- Enables last-mile connectivity to major office buildings, COLOs, POPs, Bell COs, and carrier hotels
- Leases dark fiber and conduit, including:
 - Backbone
 - Laterals
- Provides construction services
 - Custom-build projects
 - Last-mile connections

With more than 175 fiber miles, we are the largest all-fiber competitive local exchange carrier (CLEC) in metro Atlanta, serving the central business district and points north and south of the city. Additionally, our 60-mile Phoenix network covers the central business district, midtown and airport areas. Our prespliced connections and Fiber Termination Panels (FTPs) give our customers rapid deployment of bandwidth to meet existing and future requirements.

If you're searching for fiber — and a competitive advantage in your telecommunications growth initiatives — grow with AGL Networks.



Metropolitan Optical Networks

Dark Fiber Connectivity: Your Smartest Way to Grow

Dark fiber and conduit networks: They are essential to companies in need of high-speed, high-capacity, high-reliability telecommunications services. Businesses today look for every way to maximize their investment and speed their time to market. Yet very few can expend the time or capital to build a network from scratch. With our metropolitan optical networks in Atlanta and Phoenix, we provide clients the telecommunications flexibility they need.

The flexibility of AGL's established networks allows you to lease dark fiber in strand counts and bundles — from point-to-point or over the entire network. You can add infrastructure to fit your growing needs on your schedule, today and as you grow.

Who Values Us?

- Local, regional, national telecom companies
- Major corporations
- Government, healthcare, and educational institutions
- CLECs, BLECs
- Cable carriers
- ISPs, ASPs
- Companies with data and call centers

AGL Networks offers clients what we do best: design, build, and manage fiber optics networks to uncompromising standards. Our projects reflect the synergies of proven processes and long-standing relationships. They result in timely and cost-effective solutions for your telecommunications needs. By utilizing our core competencies, delivered by our professionals, you free your time, resources, and capital.

Why AGL Networks?

- AGL Resources builds more than 50,000 laterals and installs more than 750 miles of pipeline each year.
- AGLN installs more than 50,000 laterals and 750 miles of conduit per year.
- 100 percent of our network is new and primarily underground.
- We have "Big 3" confidence.



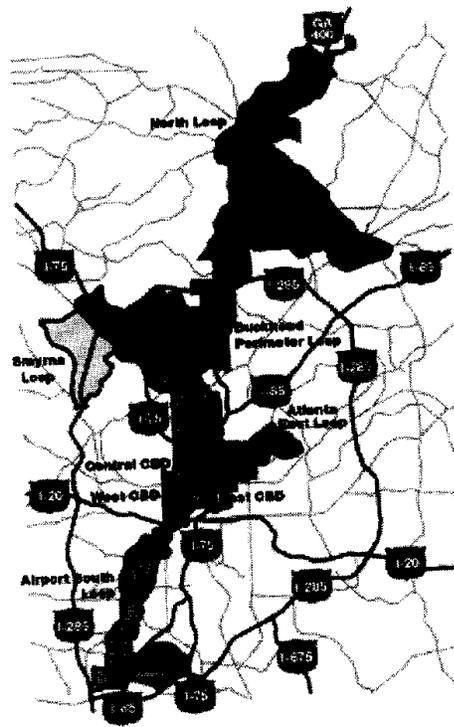
Atlanta

Overall Atlanta View

Our 175-mile Atlanta area network of conduit and dark fiber encompasses all critical points and dense commercial districts as well as metro Atlanta's large carrier hotels, IXCs and LSOs. With AGL Network's ability to provide laterals off our network, we offer complete end-to-end connectivity. To view PDFs of the maps, please click on the links below.

[Overall View](#)

-  [North Loop](#)
-  [Buckhead/Perimeter Loop](#)
-  [Smyrna Loop](#)
-  [West CBD](#)
-  [Central CBD](#)
-  [East CBD](#)
-  [Atlanta East Loop](#)
-  [Airport South Loop](#)
-  Network Route





Phoenix

Overall Phoenix View

Our 60-mile Phoenix network encircles main commercial areas of Phoenix and Tempe, providing accessibility to the main COs, IXCs, and carrier hotels. The entire network is loaded with new premium enhanced fiber available for custom configuration to your specified destinations. To view PDFs of the maps, please click on the links below.

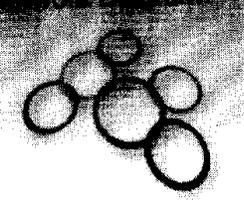
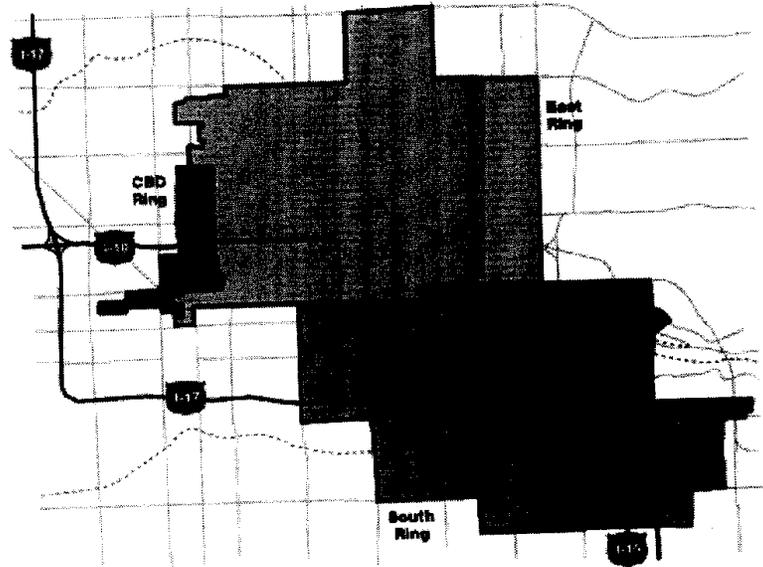
[Overall View](#)

 [East Ring](#)

 [CBD Ring](#)

 [South Ring](#)

 [Network Route](#)



American Fiber Systems



Corporate Offices:
100 Meridian Centre
Suite 250
Rochester, NY 14618

Price Guide

Metro Optical Ethernet Services

Rates, Terms and Conditions of Service



Corporate Offices:
 100 Meridian Centre
 Suite 250
 Rochester, NY 14618

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