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360networks offers a comprehensive range of products and services to help businesses stay competitive, including Internet, broadband, and private line. We service carrier customers over one of the largest and most advanced broadband fiber-optic networks in the US. Our integrated network architecture is the foundation of our company. We can guarantee the delivery time of our products and services because we own our network. We structure our business around your requirements. Our knowledgeable and responsive team of specialists will work with you to tailor a solution that's right for you. A single point of contact makes it easy for customers to do business with us.

For more information on how we can help your business be successful, please email us, customer.service@360.net, or call our customer service at 1-800-590-1025.



every service we provide is backed by our commitment to reliability and performance





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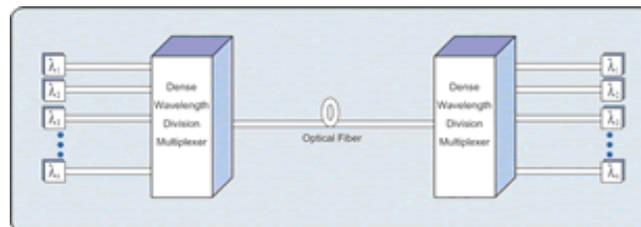
wavelength

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Wavelength service provides customers with a linear point-to-point, bi-directional, high capacity optical transport for data, IP, multimedia and voice traffic. Built on 360networks' advanced fiber optic backbone, Wavelength services offer an economic alternative to dark fiber.

Wavelength service employs Dense Wavelength Division Multiplexing (DWDM) technology. DWDM increases the capacity of fiber optic data transmission systems through the multiplexing of multiple wavelengths of light over a strand of fiber. Up to 176 separate wavelengths can be delivered per fiber strand depending on fiber type, distance traveled and transmission equipment used. This increased network capacity and scalability enables 360networks to provide the service at reduced costs.

Wavelength service offers high bandwidth with protocol transparency. The service is available at speeds of 2.5 Gigabits per second and 10 Gigabits per second. It delivers flexible, high capacity that can be used to extend the reach of networks or fill network gaps.


[View Large Diagram](#)

Wavelength services are designed to meet the high bandwidth needs of large national and international carriers and other providers of data, voice and Internet services. These include Tier 1 and Tier 2 carriers requiring high capacity and fully transparent solutions to close SONET/SDH rings or expand their backbone network footprint. In addition, Next Generation Service Providers: Internet Service Providers (ISPs), Application Service Providers (ASPs), and Storage Service Providers (SSPs) can benefit from Wavelength services to establish diverse routes which will bolster reliability and coverage to Internet peering points and private interconnection points.

Features and Benefits

SONET Protocol Transparency

Wavelength service is overhead transparent, allowing customers control of the overhead bytes in SONET/SDH frames to use for their own proprietary management purposes since the overhead is not terminated, but is passed through to customer end-points.



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Speed to Market

Wavelength services are highly flexible for provisioning large amounts of bandwidth to meet short and long-term bandwidth needs without the capital investment of network upgrades (e.g., dark fiber, ROW, facilities, staff and equipment). 360networks will provision new or upgrade existing circuits within 15 business days for on-net, in inventory orders.

Flexibility

Wavelength services offer customers flexibility to add/drop traffic at sites along routes quickly and easily. In addition, Wavelength services are available in pre-paid leases or annual term leases.

Access Speed

Wavelength services are available in 2.5Gbps and 10Gbps allowing customers to grow bandwidth as needs increase.

Protection

Unprotected - 360networks offers linear, unprotected Wavelengths.

Route diversity

360networks can provide route diversity for Wavelength services. Customers can use the diversely routed waves to provide their own protection switching.





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optical point-to-point

Optical Point-to-Point service provides customers with a fixed Point-to-Point optical channel capacity on 360networks' optical network. The service is capable of carrying voice, data, and/or video traffic and can connect customer locations in major centers in the United States .

The Optical Point-to-Point service is available in the following access speeds:

OC-3 / OC-12 / OC-48

The service is used to provide the backbone network for higher layer protocol networks such as ATM and IP. In addition, the service allows the customer to augment existing optical backbone networks for added capacity or diverse route protection. Other applications for the optical OC-n transport services include: Regional/National network expansion, Wide area networking (Intranet), Remote storage, and Data center (Application Service Provider) access.

Key Benefits

Flexibility - Optical Point-to-Point service provides customers with the ability to evolve bandwidth requirements in standard SONET/SDH growth increments, up to OC-48.

Backbone Network Outsourcing - Outsourcing the provisioning of the backbone network enables service providers to quickly launch new services to new markets without the high implementation, capital, time and opportunity costs associated with building and maintaining a network. It can also reduce the risk of launching into a new market. Facility based service providers can also quickly augment their existing network capacity and/or extend their network to "off-net" locations to improve their service coverage.

Performance/Reliability - 360networks ' service is backed by a comprehensive service level agreement (SLA).

Network Surveillance - 360networks ' advanced Network Operation Centers provide 24 hours x 7 days a week x 365 days a year network monitoring.

Service Features

Tiered Protection/Restoration - The following protection levels provides the customer with added flexibility on how their network is designed today and the flexibility to make changes easily in the future.

Client Side (Port): These protection options can be subscribed to on a site-by-site basis



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Unprotected - Provides single customer facing port.

1+1 APS - Provides dual customer facing ports. In the event of a failure of the primary port, the secondary port will become the primary port. This feature is ideally used for a service that requires a full redundancy.

Network Side: These protection options can be subscribed to on a per segment/circuit basis.

Unprotected - Provides single path/circuit between customer facing ports. In the event of a network failure, service will be unavailable until the problem is repaired.

Mesh Protected - Provides primary between customer facing ports. In the event of a network failure the intelligent system will automatically determine an alternative path, will reroute traffic that was running on the original primary path and will switch to this new path.

1+1 Protected - Provides primary and an alternate path/circuit between customer facing ports. In the event of a network failure the intelligent system will automatically switch to the secondary path.

Concatenation - Service is available in either concatenated or non-concatenated.





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Dark fiber includes long haul (inter-city) and metro (intra-city) fiber strands of various types. Fiber is available between most large cities in the United States. Inventory includes various types of fiber: Single Mode Fiber (SMF), Non-Zero Dispersion Shifted Fiber (NZ-DSF), and Dispersion Shifted Fiber (DSF). Each fiber type adheres to ITU standards. Within each ITU standard fiber type, there are different vendor products. These include SMF-28, E-LEAF, TrueWave RS, LEAF, TrueWave Classic, SMF-LS, and DS fiber. Each route has one or more vendor fiber types. Typical adjunct services offered with dark fiber include power and splicing at the time of purchase and operations and maintenance support for the term of the contract. Network extensions to customer-designated locations may be constructed by special request. Fiber may be purchased, leased, or obtained via Indefeasible Right of Use (IRU). Lease terms typically run from one to 10 years and IRU terms typically run 10 years or longer. Numerous discount pricing programs are available including lower prices on routes with high inventory, and for inventory that is slated for complete disposition.

Conduit

Conduit service, like dark fiber, is targeted to the carrier and large enterprise market for both long haul and metropolitan network assets. Various types and sizes of conduit available include: HDPE, PVC and Steel conduit ranging from 1" to 4" diameters. Customers purchase conduit typically to pull their own fiber. Where cost justified, 360networks can extend conduit to a customer defined location.

Operations & Maintenance Service (O&M)

All dark fiber and conduit services include O&M (Operations and Maintenance Services). 360networks may provide these services through their own resources, or outsource to other maintenance service providers. The service includes scheduled and unscheduled maintenance. Schedule maintenance includes: patrol of the system route, management of "Call Before You Dig" (CBYD) program, maintenance of CBYD signs on route Right-Of-Way (ROW), supervision of construction activities near customer route. Unscheduled maintenance includes: Emergency dispatch of qualified technicians to investigate outages detected by the 360networks Network Operation Center (NOC), and non-emergency response to any potential service-affecting situation to prevent system failure, interruption of service. 360networks' NOC is capable of receiving system alarms 24x7, and maintenance employees are available for dispatch 24x7.

Value Proposition

When a business decides to establish a fiber optic communications network between one or more sites, it has a variety of options to choose from. It may lease capacity and services from a network provider that has already built its own network, or it may build a network of its own. When a company decides that the volume of traffic justifies building its own



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network it will purchase network transmission equipment, collocation space and power for this equipment and conduit or dark fiber to connect the transmission equipment between termination sites. Building one's own network also gives the company more security and quality control over its communication system. Recent market and world events have pushed companies to consider dark fiber as an alternative to leasing private network lines. A glut of fiber from overbuilt networks and over production of network equipment has resulted in reduced costs for network builds. Security concerns are also prompting companies to look at managing and controlling their own networks. With experience in building fiber optic networks, a significant inventory of fiber supported by available space and power, 360network is a reliable choice for partnering in building a fiber optic communications network.

Business Features: Detailed Specifications

ITU Fiber Type	ITU Standard	Designed Wavelength	Deployed Fiber Vendor	Vendor Fiber Type	Max Waves on Fiber ¹	Rank
SMF	G.652	1301 nm and 1550 nm	Corning	SMF-28	176	1
NZ-DSF	G.655	1550 nm window	Corning	E-LEAF	176	2
			Lucent	TureWave RS	176	3
			Corning	LEAF	140	4
			Lucent	TrueWave (Classic)	80	5
			Corning	SMF-LS	70	6
DSF	G.653	1550 nm	Corning	DS	60	7

¹ This number can vary depending upon vendor equipment used.

Construction Material Specifications

The fiber optic cable shall be single armor in design. The cable may be either loose tube or central core in construction. The central strength member shall be dielectric. Each buffer tube or ribbon shall contain no more than twelve (12) fibers. HDPE shall be a minimum of SDR-11. Steel or PVC conduit shall be minimum Schedule 40 wall thickness. Steel conduit will be joined with threaded collars or welding. Any exposed steel conduit, brackets, or hardware shall be hot-dipped galvanized after fabrication. Handholes shall have a minimum load rating of H-20 with 18 to 24 inches of soil cover. Dimensions will typically be 30 by 60 by 30 inches (W by L by H), sufficient in size to hold cable slack. EMS markers will be fabricated in the lids of handholes. All handholes and manholes will have locking lids (pentahead or similar). Manholes shall have a minimum H-20 loading rating. All buried cable warning tape shall be three inches (3") wide and display "Warning: Buried Fiber Optic Cable" and emergency One Call "800" numbers printed every twenty-four inches (24").

Splicing & Fiber Acceptance Testing

All splices will be performed with an industry-accepted fusion-splicing machine using "Active Alignment". Splices will be qualified during initial construction with an Optical Time Domain Reflectometer (OTDR) from one direction. Connector (pigtail) splices will be qualified with a 1-km launch reel. Unidirectional objective parameters are as follows: .15 dB loss

with a total of three attempts being made and documented if loss is above .15dB.

After end-to-end (site-to-site) connectivity on the fibers, bi-directional span testing will be done. These measurements must be made after the splice manhole or handhole is closed in order to check for macro-bending problems. Installed loss measurements at 1550nm will be recorded using an industry-accepted laser source and power meter. Continuity testing will be done on all fibers concurrently. OTDR traces will be taken at 1550nm and splice loss measurements will be analyzed. GN Nettest Laser Precision format will be used on all traces. All testing will be conducted at 1550nm.





collocation

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Collocation services provide secure space in a carrier-class operating environment to support our customer's network hardware. Our collocation product will help carrier customers and bandwidth-enabled service providers expand into new markets, or grow in existing ones, quickly and cost-effectively.

360/GT collocation saves our customers time and capital expense by providing and equipping facilities to support next generation communication and network equipment in high-demand customer markets. Our collocation product is available in many carrier hotels with connectivity to other telecom carriers.



[Carrier Collocation \(288 KB\)](#)



[GT Access CONNECT™ \(181 KB\)](#)



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dedicated internet access product service description

In today's data-centric business environment, it is increasingly crucial that business-critical Internet connections are fast, flexible and reliable. 360networks DIA product suite offers fast, flexible Internet access, proactive network surveillance and outstanding customer support. DIA provides customers dedicated access to the IP network that ensures a high level of service. DIA service connects businesses to the Internet via a high-capacity, nationwide backbone rigorously engineered to support high-performance data connections.

DIA service offers connectivity at dedicated access speeds of T1 to OC-48. The DIA tiered service offering provides the flexibility to increase your available bandwidth simply and rapidly. You select the dedicated tiered or flat access port, which defines the maximum throughput level of the service. Tiered levels allow you to grow your service until the facility reaches its maximum capacity. As your maximum capacity needs change, you can easily move from one service tier to another in order to grow your data connection as your usage increases. To move from one level to another, customers simply need to call Customer Care to initiate the process.

The facility capacity determines the amount of tiered megabits that can be delivered over that medium. The relationship between the access port and the megabit levels are as follows:

MLPP T-1 facilities are individual T-1 circuits that are bonded together to form a ubiquitous data stream. Typically, it is more cost-effective to move to a DS-3 once you reach 5 bonded T-1s.

Tiered/Flat Access Megabit/Port Speed

T-1	1.5 Meg
MultiT-1 (x2 MLPPP)	3 Meg
MultiT-Multi T-1 (x3 MLPPP)	4.6 Meg
MultiT-1 (x4 MLPPP)	6 Meg
MultiT-1 (x5 MLPPP)	7.7 Meg
MultiT-1 (x6 MLPPP)	9.2 Meg
DS-3 Tiered	6 Meg
DS-3 Tiered	9 Meg
DS-3 Tiered	12 Meg
DS-3 Tiered	15 Meg
DS-3 Tiered	18 Meg
DS-3 Tiered	21 Meg



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DS-3 Tiered	25 Meg
DS-3 Tiered	30 Meg
DS-3 Tiered	35 Meg
DS-3 Tiered	40 Meg
DS-3 Flat	45 Meg
OC-3 Tiered	45 Meg
OC-3 Tiered	60 Meg
OC-3 Tiered	90 Meg
OC-3 Flat	155 Meg
OC-12 Tiered	155 Meg
OC-1 Tiered	310 Meg
OC-12 Tiered	465 Meg
OC-12 Flat	622 Meg
OC-48 Flat	2488 Meg
(Also available tiered in OC-12 increments)	





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Our broadband fiber-optic network is one of the most advanced in the US. Our integrated network architecture is the foundation for our comprehensive range of products and services including Dedicated Internet Access (DIA), wavelength, private line, optical transport, and GigE transport services.

Our leading IP infrastructure in the US includes:

- Up to 10 Gigabit Ethernet transport.
- Robust IP backbone offering superior Internet performance
- Exceptional peering
- High network availability and low latency
- Flat, usage based and burstable options are available

The strength of our network:

- Spans 33,000 route miles
- Reaches over 75 major markets spanning Tier 1, Tier 2, and Tier 3 markets
- Metro access in 12 of top US cities
- Over 40 Metro POPs
- Broad and innovative service capabilities
- Service Level guarantees
- Multiple route diversity options
- Scalable and flexible network for developing tailored solutions
- 24X7 Network Operations Center monitoring and support

[View our network map.](#)



our optical networking technologies offer the flexibility & growth to meet your ever-changing business needs





Network Infrastructure



LEGEND:

- Lit
- - - - - Dark
- POP City
- ⊙ Network Interconnections

Last modified on November 8, 2004

Subject to change without notice. Please verify with Sales or Applications Engineering.



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About AboveNet

About AboveNet

Who We Are

Fiber Connectivity Solutions for Business.

AboveNet, Inc. provides fiber connectivity solutions for businesses. With more than 2 million fiber miles deployed globally, its private optical network delivers key network and IP services in and between 12 top U.S. metro markets and London.

AboveNet's network is widely used in demanding markets such as financial services, where the majority of top investment banks, and five of the top 10 U.S. banks rely on AboveNet for mission critical services. AboveNet provides metro access, IP Network, and managed services tailored to solve key IT business issues for its customers, such as regulatory compliance, business continuity, disaster recovery, and security.

Our Vision

AboveNet, Inc. enables businesses to grow and scale their operations by providing the infrastructure needed. Our fiber connectivity solutions for business enable our customers to improve productivity and expand their operations on demand. An aggressive and agile player in the industry, AboveNet provides security, performance, scalability and reliability through a wealth of interconnected services designed to facilitate information exchange.

AboveNet provides an alternative to local carriers through a dedicated private fiber optic network that helps manage risk and extend access, by providing physical diversity, a choice of vendors, and a broader range of local and nationwide services.

Our Foundation and Assets

Our fiber optic network provides the foundation for our offerings, providing metro access, long haul services, and IP transit to the major business centers in the U.S. and London. AboveNet's portfolio of managed services solutions, enable enterprise customers to rise Above legacy networks to create truly customized door-to-door optic networks. AboveNet enables real-time information exchange wherever and whenever it's needed. In addition to highly innovative and experienced people in the industry, AboveNet has a broad portfolio of assets that seamlessly interconnect to offer a full range of information exchanges services.

Services: Metro Access Networks (MAN), Wide Area Networks (WAN), and Managed Services include: WDM Wavelength Services, Metro Ethernet, WAN Ethernet, IP Transit, Dark Fiber, Hosting, and Data Centers.

- AboveNet's private metropolitan fiber network enables its customers to solve critical issues, including cost containment, security, and reliability. AboveNet provides private secure communications with virtually unlimited capacity and flexible, at competitive rates. Secure optical connectivity frees companies from the constraints of tariffed, local loop solutions. Its door-to-door optical connectivity translates into improved efficiency and productivity – resulting in substantial cost savings and higher profitability.
- AboveNet data centers with global IP connectivity provide companies with secure, reliable, fault-tolerant facilities. Its facilities serve as a unified global platform for companies to implement business continuity and disaster recovery plans for mission critical communications systems and business data.
- Experienced project teams provide AboveNet metropolitan area fiber customers and AboveNet data center customers with a single point-of-accountability for the provisioning, deployment, and optimization of their network infrastructure.

[AboveNet Code of Conduct \(PDF\)](#)
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IP and Fiber Maps

Network Reach:

- Lit buildings in U.S. – over 1,050
- Fiber miles in U.S. – over 1.6 million
- Fiber miles worldwide – over 2 million

Domestic Markets Served: New York/New Jersey Metro Area, Chicago, Philadelphia, Washington DC/
Northern VA, San Francisco/San Jose, Seattle, Los Angeles, Houston, Dallas, Boston, Baltimore, Atlanta.

International Markets Served: UK, Japan

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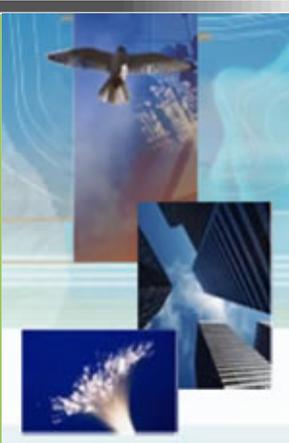
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Products & Services

Products Overview

Make your business more productive. Taking less time to do work saves money. It also leaves more time for generating new revenue.

AboveNet can help.

Optimizing productivity depends on minimizing the economic and performance barriers that constrain information exchange at the server-to-server level, the gateway-to-network level, and across the network.

AboveNet offers a full-portfolio of optical networking services and solutions that address each potential bottleneck from the individual server level all the way across the network. And unlike other service providers, AboveNet solutions operate on an affordable and integrated all-optical infrastructure so you can truly eliminate constraints on information exchange instead of just moving bottlenecks to other downstream or upstream exchange points.

- **AboveNet Access Services** break the last mile bottleneck and bypass the copper local loop by delivering fiber connectivity directly to your office.
- **AboveNet Transport Services** globally connect your business with all its remote offices and with your partners, suppliers, and customers.
- **AboveNet Hosting Services** offer fully redundant and fault-tolerant data center environments ensuring 100% uptime and 100% network connectivity of your critical infrastructure.
- **AboveNet Storage Services** safeguard the critical business data your applications need to service your customers and drive your business.
- **AboveNet Applications Management** Services provide expert infrastructure management that helps optimize your applications performance over optical networks.

Resources - Further technical information and resources regarding our products and services

AboveNet helps your business rise above the bottlenecks inherent in the 100-year-old communications networks based on copper. Discover the power of unconstrained information exchange on an all-optical infrastructure to revolutionize productivity and transform your business.

AboveNet. Get Connected.

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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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AboveNet Transport Services**Not all networks are created equal.**

Many giant telecom networks were built to transport voice traffic and later modified to carry packetized data traffic as an afterthought. Things get complex quickly when SONET transport protocol and ATM/Frame Relay switches are inserted between the wave gear and IP routers. The result is a generalized, one-size-fits-all network for everything.

Your critical business data competes with voice traffic in overly complex network architectures. This complexity doesn't exist for the benefit of your data and can actually introduce business risks you never bargained for (but can conveniently mitigate if you pay the giant telecom networks an additional premium for private line services).

Simple is better.

Create your own private DWDM network built by AboveNet to fit precisely with your applications needs. Or, ride one of the most robust and highest performing global IP networks.

At AboveNet, our IP network is a special purpose packet network built for performance. It is designed, built and operated with the sole mission of transporting your critical business data as efficiently as the speed of light allows. AboveNet uses wave gear and IP routers – period.

AboveNet Metro Ethernet Services

Enterprise business solution that provides simple, efficient, and secure managed optical Gigabit Ethernet connectivity. It transparently connects customer LANs together to seamlessly run Ethernet applications within the metro area.

Abovenet MetroFlex Service

AboveNet MetroFlex Service can connect your corporate office to AboveNet Services as well as other third party providers to access the applications needed to run your business including VoIP, storage, security, monitoring, and business continuity to help your business keep a competitive edge.

AboveNet IP Bandwidth.

Pure IP transit at its best.

AboveNet CDN Services.

A suite of managed content delivery services that transport and deploy your content on thousands of caching servers worldwide bringing your business closer to your customers.

AboveNet DWDM Services.

Protocol-independent, multi-service private networks that are secure, reliable and scaleable. Combines AboveNet dark fiber with advanced DWDM technology to transport multiple data streams, protocols, and applications on a single fiber pair.

AboveNet Long Haul Services.

Ultra-broadband, high-speed private line connectivity using DWDM services between select U.S. telecommunications hubs. Service also available on select trans-Atlantic and trans-Pacific submarine routes.

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

AboveNet. Get Connected.

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Products & Services

AboveNet Hosting Services**Move to a better place.**

When it comes to web hosting, sometimes you get more than you pay for. That's certainly the case at AboveNet where you can rely on a proven business model and a company that remains committed to web hosting.

AboveNet is a recognized founder of the hosting industry. AboveNet set the industry standard for next generation data center design, construction, redundancy, and operation. AboveNet Internet Service Exchanges also offer multiple network providers and industry leading managed services to support your hosted infrastructure.

Go beyond connecting your critical operations to the Internet. Move your critical operations inside the Internet with AboveNet Hosting Services and manage your business's information exchange objectives more efficiently.

Tailor a flexible, full-service plan to meet your business needs. We'll be here.

AboveNet Co-location.

Dedicated, secure space in an AboveNet Internet Service Exchange ensuring 100% power availability and 100% network connectivity.

AboveNet Managed Hosting.

AboveNet co-location bundled with managed services support, including remote hands level I, level II, and systems administration.

AboveNet Move Services.

Professional move assistance that reduces the complexity, worries and hassles of moving web infrastructure into an AboveNet Internet Service Exchange from another data center.

AboveNet Monitoring Services.

24x7 monitoring, alerting and reporting services customers can select to manage website/network/device availability and performance.

AboveNet Managed Firewall Services.

Internet traffic filtering services that regulate packets entering and exiting web sites according to customer defined security policies.

AboveNet Managed VPN Services.

Device-to-device, virtual private network tunnels to securely transport traffic across the Internet.

AboveNet Intrusion Detection Services.

Detection, alerting and reporting of Internet traffic identified as suspicious according to customer defined, custom security policies.

AboveNet Vulnerability Assessment Services.

Professional evaluation, probe, and testing of a customer's website and network for known security vulnerabilities.

AboveNet Audit Services.

Detailed and expert analysis of your hosted infrastructure with recommendations aimed at ensuring your site supports your online business objectives. Evaluations can include site architecture audit, asset and configuration audit, capabilities and capacity audit, security audit, and performance audit.

**Introducing -
AboveNet Metro
Ethernet Services**

**Contact AboveNet
Today!**



**IP and Fiber
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or

Call AboveNet
for more information:

US
877-go-ABOVE
(877-462-2683)

United Kingdom
+44 (0) 20 7531 2200

AboveNet Remote Hands Services.

On-site AboveNet technicians deliver vital services that help you remotely operate, manage and troubleshoot your critical Internet infrastructure hosted at AboveNet without sending your own internal staff to the data center.

AboveNet Domain Name and IP Address Services.

Engineering services to assign, register, move, and propagate domain names and IP addresses.

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

AboveNet. Get Connected.

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Products & Services

AboveNet Storage Services

Safeguard your business critical data.

Direct attached and self-administered storage strategies no longer satisfy the needs of most business continuity plans. Proximity of primary data to data copies can be viewed as a single point of failure. Reliance on overworked IT staff to manage backups in distributed computing environments with ballooning volumes of data, mixed technology platforms, and fluid organizational priorities may be more haphazard than systematic.

AboveNet Storage Services offer unparalleled value by bundling private optical storage networks with storage infrastructure services provided and managed by Arsenal Digital Solutions™. Optical performance, solid SLAs, and affordable pricing make AboveNet Storage Services a key element for every business's business continuity plan.

AboveNet private optical storage networks and backup services are available at most AboveNet Internet Services Exchanges. AboveNet also builds private optical storage networks in select metro areas between customer sites and backup services at AboveNet Internet Service Exchanges.

AboveNet Data Backup & Restore Service

Affordable, secure storage and retrieval of critical business data using tape systems and archiving. Available to customers collocated inside AboveNet Internet Service Exchanges.

AboveNet Metro Data Backup & Restore Service

Affordable, secure storage and retrieval of critical business data using tape systems and archiving. Available between customer premises and AboveNet Internet Service Exchanges via a private optical metro area network.

AboveNet Offsite Tape Vaulting

Replication of backup tapes with replicated copies stored long-term off-site from AboveNet storage infrastructure.

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

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Products & Services

AboveNet Application Management Services

Optimize application performance.

IT services and network services are converging. Online applications demand that IT managers and network managers work together. Organizations are measured on user experience metrics like system availability and response time to end users in all 24 time zones every day of the year – on a wide array of hardware as well as software products, through the corporate LAN, and across the global internet.

AboveNet Application Management Services focus on operating your production systems, production databases, and complex Internet sites to ensure security, high availability, scalability and performance optimization.

AboveNet can truly eliminate the constraints on information exchange between your applications and users rather than just moving bottlenecks to other upstream or downstream exchange points in your IT or network infrastructure. Our experts specialize in private optical networking, operate one of the world's most robust IP networks, and then integrate the delivery of a broad array of managed hosting services in our world-class data centers.

AboveNet Operations Platform.

Customizable bundle of managed hosting services for large complex Internet sites requiring high availability. AboveNet experts proactively manage all aspects of the production environment, including co-location, connectivity, monitoring, security, backup and restore, and your applications infrastructure under a single SLA for a fixed monthly fee.

AboveNet DbA Management & Monitoring Platform.

AboveNet bundles expert database administration and systems administration support with device monitoring, and simulation services into a single convenient package. Get superior production environment support for your on-line database that 's available 24x7 for a fixed monthly fee.

AboveNet System Administration & Monitoring Platform.

AboveNet bundles skilled systems administration support, device monitoring, and simulation services into a single convenient package. Get superior production environment support for your website that 's available 24x7 and priced according to actual usage.

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

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Customer Center



Check Availability

Enter Zip Code:

Customer Center

At Adelphia, we recognize that our present and future success depends on each customers' trust in our ability to deliver quality products and service.

Our goal is to earn our customers' trust by making sure that every customer is satisfied with the outcome of every contact (s)he has with our people and service we provide. We have not completed our job until we meet this goal 100% of the time.

Cable Entertainment Support

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- [PPV What's On](#)
- [High Definition Television](#)
- [Digital Video Recorders](#)
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- [Information about CableCARD™](#)

High-Speed Internet Support

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- [Chat via the Internet with a High-Speed Internet Specialist](#)
- [Internet Safety, Security Information and Contacts](#)
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Adelphia Long Distance

The charges for Adelphia Long Distance are not included in your local phone bill, nor are they included in your Adelphia Cable bill. Adelphia Long Distance generates a stand alone invoice to its customers.

We are mandated by the Federal government to collect the Universal Service Fund. The fund is a federal surcharge on all long distance service. The charge is calculated as a percentage of usage and is not applied when there is no long distance usage.

All direct-dialed state-to-state calls to or from Alaska and all in-state calls within Alaska are billed at \$0.20/minute. All direct-dialed state-to-state calls to or from Hawaii and all in-state calls within Hawaii are billed at \$0.15/minute. All Calling Card calls are billed at \$0.25/minute.

Your access to Adelphia's 800 and calling card services is a part of your subscription to Adelphia's interstate long distance services. Your access to Adelphia's 800 numbers or its calling card services is cancelled immediately upon selection of another carrier as your primary interexchange carrier for either intraLATA or interLATA interstate services. Upon your selection of another primary interexchange carrier, you relinquish all rights to use Adelphia's 800 services and Adelphia calling cards, and Adelphia may block your subsequent attempts to access these services.

In addition, all calling cards with limited minutes that were distributed free of charge to customers and potential customers during sales promotions, will expire on July 1, 2005.

Our customer service representatives are available Monday through Saturday from 8am to 8pm EST. You can reach our customer service department, toll free, at 1-888-472-6222.

Adelphia Long Distance no longer offers a quarterly billing option, all invoices are generated monthly beginning January 2005.

Intrastate and Interstate Rates

[Adelphia Telecommunications Rates](#)

International Rates

International Calling Card rates are the same as direct-dialed international rates for termination to Standard Wireline or Wireless/Cellular phones as appropriate. However, a \$0.50 surcharge is added to each international Calling Card call.

Please select the first letter of the country needed:

Adelphia Long Distance Agreement

You will need Acrobat Reader 5.0 to view the .PDF files.



Adelphia Long Distance Agreement

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High-Speed Internet

Adelphia High-Speed Internet makes everything you like about the Internet better.

Sign up today for a special online offer!

- Up to 50x faster than dial-up
- Constant connection means no dialing up
- Easy to use!
- Use your home phone while online
- Monthly savings for Adelphia Valuepak customers
- No long-term commitments

Sign Up Now

Exclusive Web Offer

Get 6 months of Adelphia High-Speed Internet for only \$26.95 per month!

Sign Up Now

Check Availability

Enter Zip Code:

Speed

Constant Connection

Freedom

Saving Time

Promise of Internet



It's about the speed

Nothing beats a Cable Modem for fast, reliable Internet service.

[Learn More](#)



It's about the constant connection

No more dialing up. One click and you're online.

[Learn More](#)



It's about your freedom

No contract to sign means you are in control.

[Learn More](#)



It's about saving time, Your time

The world wide wait is officially over.

[Learn More](#)



It's about the promise of the Internet

Give your child the advantage of broadband.

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Plans & Features



Check Availability

Enter Zip Code:

Service Plans

Adelphia offers a variety of pricing and product options to fit your needs. Adelphia Classic Cable customers can pay as little as \$42.95 per month for High-Speed Internet while Adelphia Digital Cable customers can save even more by choosing one of our popular [Advantage packages](#).

Customers may acquire their own cable modem or rent one from Adelphia for a nominal fee. For a list of DOCSIS certified modems tested and fully supported by Adelphia, [click here](#).

Adelphia High-Speed Internet's standard features include:

Multiple Email Accounts
Every member of the family can have their own email account

Free Technical Support
Adelphia offers technical support options via email, chat and phone 24 hours a day, 365 days a year.

10MB of Free Personal Web Space
Claim your own space on the World Wide Web. Design your own web pages or web site and we'll host it for you. Adelphia's High-Speed Internet Web Wizard makes it easy to design and publish your own web pages.

Easy Installation Options
Install High-Speed Internet yourself with our easy Self-Activation Kit. If you have ever installed a printer, a scanner or any other computer peripheral, you are more than qualified to use the Self-Activation Kit to install your Adelphia High-Speed Internet service. Or, choose to have an Adelphia technician complete your installation for you.

[Click here](#) to learn more about our Self-Activation Kit. It will save you time and money.

- Speed
- Constant Connection
- Freedom
- Saving Time
- Promise of Internet
- Premier High-Speed Internet



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Premier High-Speed Internet



Check Availability

Enter Zip Code:

Premier Service Level

Adelphia High-Speed Internet Premier service offers even faster upload and download speeds than the Preferred High-Speed Internet service plus provides enhanced email features. Premier High-Speed Internet is designed for customers actively using bandwidth-intensive services, particularly if the internet connection is also being shared among multiple PCs.

You will enjoy the benefits of Premier High-Speed Internet if some of the following internet usage behaviors apply to you or your household:

- You frequently send emails with large file attachments that are 2 Mb or greater in size.
- You upload lots of multimedia files to the Internet, including digital photos, video clips, and music.
- You frequently play online games that are highly sensitive to upstream speeds and/or latency.
- You live in a household with multiple people sharing the same internet connection and frequently uploading or downloading information at the same time.
- You frequently use peer-to-peer file sharing applications.

Premier High-Speed Internet addresses these types of internet usage with download speeds of up to 6 Mbps, and upload speeds of up to 768 Kbps. It also provides for up to 10 individual email accounts that can share a total of 150 Mb of network storage. Premier High-Speed Internet is priced at \$59.95 per month for residential customers. It is also available at lower prices in our Advantage Paks; contact an Adelphia representative at **1-888-683-1000** for additional details.

How Speeds Affect What You Do

Speed
Constant Connection
Freedom
Saving Time
Promise of Internet

> Premier High-Speed Internet

Following are examples of how speed affects the time it takes to complete common tasks on the internet:

- **Sending an email with 2 Mb file attachment(s) (e.g., video clip, audio file, digital photos, etc.)**
 - 56K Dial-up: over 5 minutes
 - 256 Kbps upload: 1 minute
 - 384 Kbps upload: 42 seconds
 - 768 Kbps upload: 21 seconds

- **Uploading 20 medium-quality (e.g., 500 Kb each) digital photos to a website**
 - 56K Dial-up: almost half an hour
 - 256 Kbps upload: 5 minutes
 - 384 Kbps upload: 3 ½ minutes
 - 768 Kbps upload: 2 minutes

- **Downloading a typical MP3 audio song (5 Mb)**
 - 56K Dial-up: 13 minutes
 - 256K download: 2 ½ minutes
 - 1.5 Mbps download: < 30 seconds
 - 3 Mbps download: < 15 seconds
 - 4 Mbps download: 10 seconds
 - 6 Mbps download: 7 seconds

- **Uploading or downloading a 5 minute, high-quality digital video clip (37.5 Mb when recorded at 1-megabit per second)**
 - 56K Dial-up: Over 1 ½ hours
 - 256 Kbps: 20 minutes
 - 384 Kbps: 13 minutes
 - 1.5 Mbps: 3.3 minutes
 - 4 Mbps: 1.3 minutes
 - 6 Mbps: 1 minute

Levels of Service

	High-Speed Internet	Premier High-Speed Internet
Download Speeds ¹	Up to 4 Mbps	Up to 6 Mbps
Upload Speeds ¹	Up to 384 Kbps	Up to 768 Kbps
Email	Up to 7 accounts 100 Mb network storage	Up to 10 accounts 150 Mb network storage

Price ²	\$42.95 for residential customers	\$59.95 for residential customers
Modem lease option ²	\$3/month	\$3/month
Web Hosting	Available separately for \$19.95/month	Basic package included at no additional cost
Installation ²	Self: Free Pro: \$99.95	Self: Free Pro: \$99.95

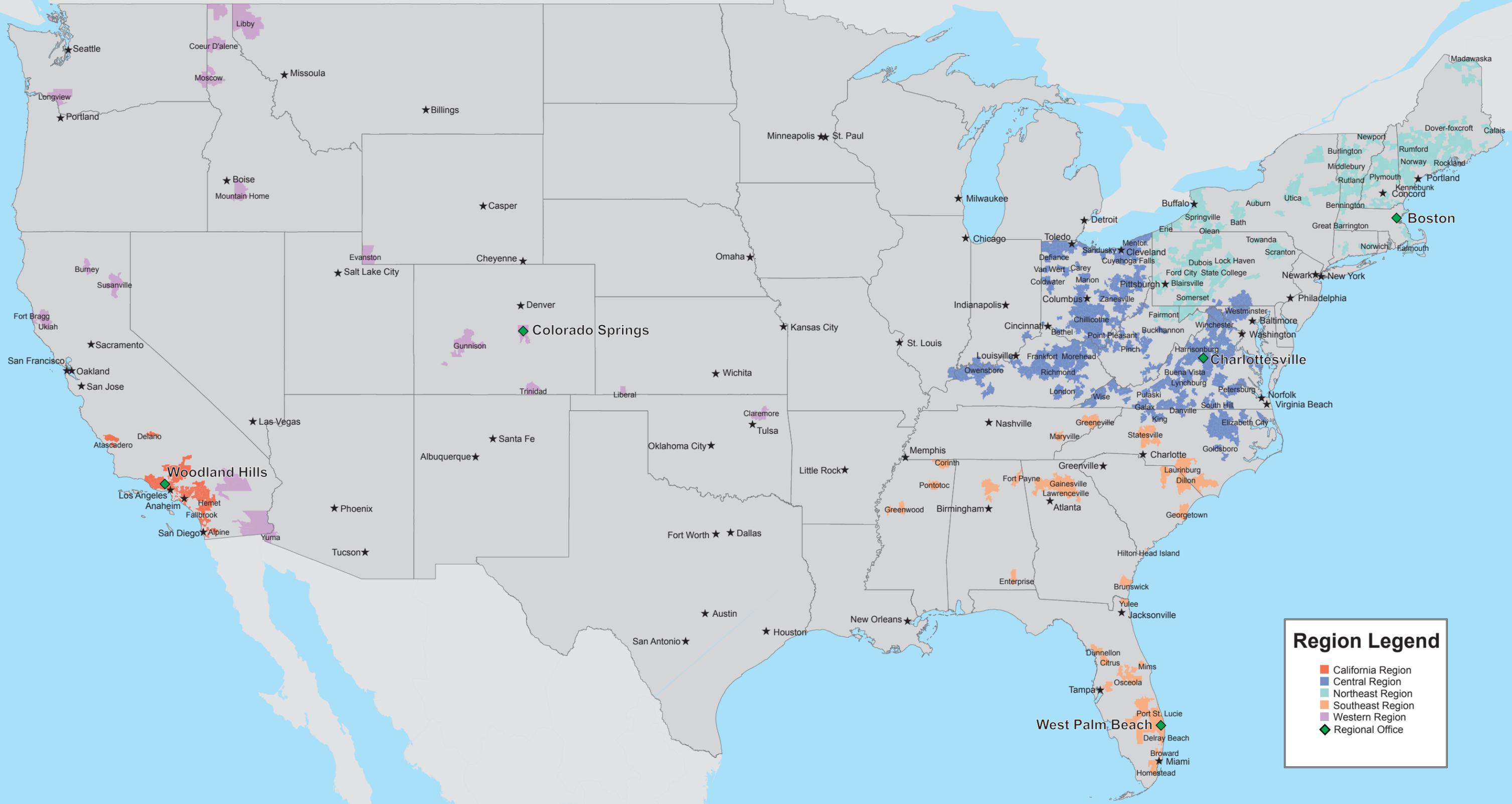
To order Adelphia High-Speed Internet Premier service, or learn more, contact an Adelphia sales representative at 1-888-683-1000.

¹Adelphia does not guarantee speeds, as the speed of the Adelphia Broadband Service provided to you at your site will vary depending upon your computer and associated equipment, internet traffic and associated equipment, and other factors. Speeds not available in Friday Harbor, WA, Burney, CA, Telluride, CO, Libby, MT, Crested Butte, CO and Willits, CA.

²Offer may not be available in all areas, and prices may vary by market. Installation, equipment and other charges may apply, please call Adelphia for specific details. Additional terms and conditions may apply to Adelphia Broadband Services. Service plans subject to change with or without notice.

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Region Legend

- California Region
- Central Region
- Northeast Region
- Southeast Region
- Western Region
- Regional Office

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About Us

[: leadership team :](#)



Adesta designs, builds, and supports multi-discipline infrastructures and serves commercial, industrial and governmental entities globally. The company delivers value-driven infrastructure solutions that are more reliable, integrated and smarter than ever before. Adesta redefines the economics and quality of converging security, communications, and transportation network infrastructures through a single-source approach that promises a new era of collaboration, communications and public safety.

Since 1988, Adesta has deployed over two million fiber miles in more than 70 metropolitan areas and completed over 300 electronic security systems projects in the United States, Europe, Asia, Central America, and the Middle East.

Our Heritage

Headquartered in Omaha, Nebraska, Adesta was founded in 1988 as Kiewit Network Technologies by Peter Kiewit Sons', Inc. In 1992 the company became MFS Network Technologies and was subsequently merged into MCI WorldCom in 1996. After its separation from WorldCom, it changed its name to Adesta. In 2002, a financial partnership of Adesta management and McCarthy Group acquired the assets and employees of the Company.

Today, the Company is managed by executives from the telecommunications, construction and security industries and is well on its way to becoming the leading designer, builder, and supporter of multi-discipline networks.

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Services

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Adesta offers turnkey and a la carte services to organizations that require a partner to design, build, and maintain multi-discipline infrastructure projects. Our track record includes successful projects for diverse markets ranging from energy, real estate, telecommunications, and ports to large state and federal government projects including military facilities, communications networks, dams, and more.

Adesta project teams have the experience to rapidly build infrastructures for applications such as data networking, voice communications, video distribution, broadband communications, intrusion detection, force protection, access control, traffic management, electronic toll collection, SCADA systems, and public safety. Our achievements have included security systems for government installations, metropolitan area networks, long-haul fiber optic networks, and both wireless and wireline, statewide networks. A talented engineering and design team combined with efficient project management and continuing operations and maintenance create a win-win situation. No matter how complex the project, Adesta brings all the right services and solutions together in a simple, single source solution.

The Adesta Difference

- One-stop shop for turnkey solutions to meet the unique needs of converging security, communications, and transportation network infrastructures
- Experienced team of passionate people whose renowned experience and track record can be attributed to the company's proprietary business approach that includes thorough concept review, design, engineering, installation, testing, training, and follow on service
- Vendor-neutral approach that puts the customer requirements and value, not a predetermined solution set, at the core of each and every project
- A complete solution that supports multiple types of converging infrastructures with an ease of management and quality service that means peace of mind for our customers

[See How It All Comes Together at Adesta >>](#)

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Services

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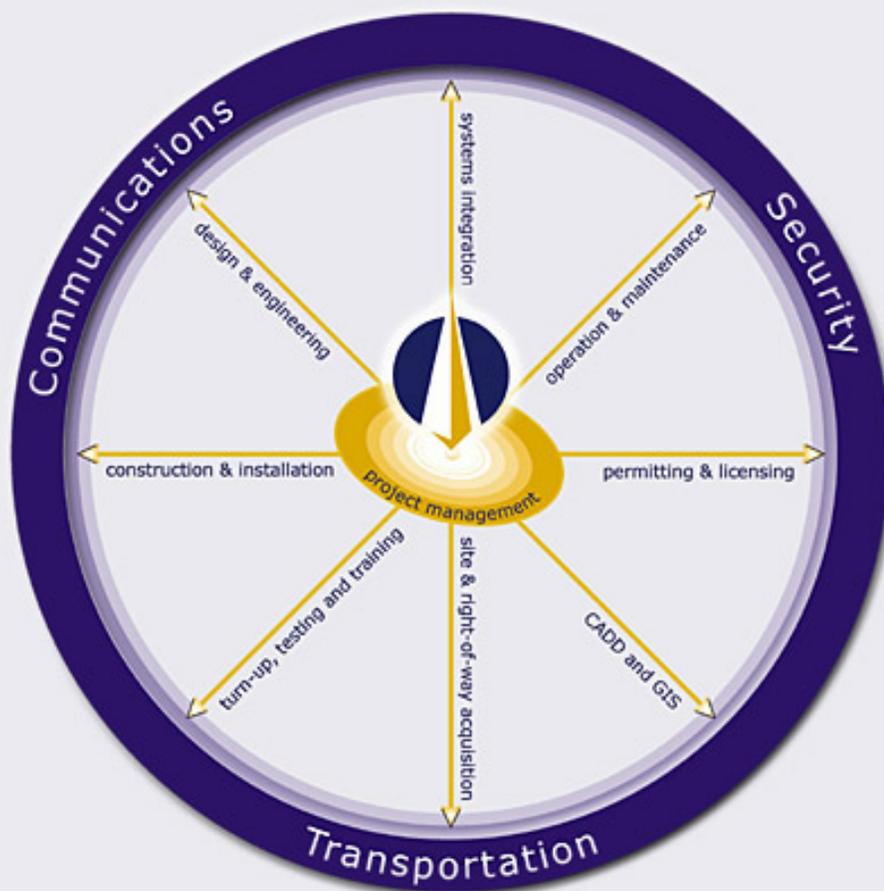
: Adesta offers a full circle of services to help reach your goals



Using our full circle of services, customers gain the following benefits:

- A single source of accountability
- Fifteen years of integrated design and construction experience
- An early and ongoing focus on budgets, schedules, and any unique project challenges
- Full commitment to the completed project

Click on one of the "spokes" below to learn more about our service offerings.



Adesta's Circle of Services

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Services

: [circle of services](#) : clients served :

: Clients Served



With experience in working in all terrains--in all types of weather--from Alaska to the Middle East, we get the job done no matter what the obstacle. We have tackled projects from under \$1 million to over \$50 million. No matter what the budget, our commitment is to complete each project on time and within budget.

Review the list of select clients that we've served, and click on those highlighted in blue to view a project overview in Adobe® Acrobat Reader®. If you do not have the Reader software on your computer, you can [download a complimentary copy here](#).



Network Services

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[Chicago Transit Authority*](#)
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[Commonwealth Edison of Chicago](#)
[Eugene Water and Electric Board](#)
[Illinois State Toll Highway Authority*](#)
 Minnesota Equal Access Network Services
 New York State Office of General Services*
[New York State Thruway Authority*](#)
[Pacific Power & Light](#)
[Sprint PCS \(via Nortel\)](#)
[State of Connecticut*](#)
[State of Iowa](#)
 WorldCom/MCI

Electronic Security Systems

[California National Guard*](#)
[Olympic Village, Salt Lake City, Utah](#)
[Sacramento County Courthouse](#)
 U.S. Bureau of Reclamation

Intelligent Transportation Systems

Arizona Department of Transportation

[Bay Area Rapid Transit](#)

California Private Transportation Company

[Chicago Transit Authority](#)

Colorado Department of Transportation

[Illinois State Toll Highway Authority](#)

* In addition to having constructed these networks, Adesta continues to operate and maintain them for the owner.

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What We Do

American Fiber Systems is the fastest way to get your metropolitan networks up to speed.

American Fiber Systems is a "dark" fiber metropolitan infrastructure and transport services provider, dedicated to enabling aggressive companies to profit from the burgeoning communications market without waiting years to do it. We design, build, operate and maintain high-capacity, high-bandwidth fiber-optic networks, constructed on full-spectrum fiber and completely connected to a city's most important points of communications presence:

ILEC and CLEC central offices; ISP and ASP facilities; Interexchange "carrier hotels;" Wireless providers and cable company head ends, and Fortune 1000 companies.

Our sophisticated metropolitan networks, with built-in redundancy for total reliability, provide maximum high-capacity service coverage in high-density business districts. You can lease exactly the capacity you need with our transport services or lease dark fiber on a strand-by-strand basis. What's more, we will never compete with you. As your wholesale strategic partner, our only mission is to enable your success as quickly and efficiently as possible.

Professional Services

AFS also offers a wide range of [Professional Services](#), from the business planning stages to design and implementation to managing and maintaining. Whether your company is looking to outsource functions longer term or has a one time project management or consulting requirement.



Fiber Factoid

With only 2 strands of fiber, you can transmit the contents of the 18 million books in the Library of Congress from Washington, D.C. to Fresno, CA in less than 4 minutes.



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Professional Services

At AFS, our mission is to help entrepreneurial carriers and service providers develop profitable Metro Networks. We're there with you every step of the way, so you can spend more time doing what you do best. Here are some of the many Professional Services you can expect from AFS:

- Provides a clear, comprehensive guide to metropolitan markets, technologies, strategies and business-case development.
- Network planning, design, optimization and implementation, helping you enter new markets or expand existing ones.
- Identifying potential buildings and customers to target.
- Comprehensive Gateway and Co-Location Services, including planning, design, implementation, and management.
AFS will manage any of your building entry and/or inside premise wiring issues.
- Through Co-Sourcing with its strategic partners, AFS can source your company's metro dark fiber requirements in any market, even if your requirement is not in one of AFS's markets.
- Network Monitoring and Management - From initial planning through 24/7/365 equipment and fiber management as well as change management.
- Assessments and recommendations of needed optronics and switching equipment.
- Escalation, dispatch and repair.
- Value-added services such as Least-Cost Routing, Diverse Routing, and more.



Fiber Factoid

Wavelength division multiplexing optical technology has driven down a provider's cost of capacity by more than 99%.



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OUR PRODUCTS

Voice Services

American Fiber Systems offers traditional VOICE services including Business Lines with all industry features, Primary Interface Trunks (PRI), channelized T-1's and Long Distance.

Several new all inclusive packages are available to handle your voice, Internet and Long Distance needs.

[More information...](#)

Our Long Distance offering provides you with some of the most competitive rates in Metro-Atlanta. Inbound, outbound and International plans are available.

[More information...](#)

Data Services

American Fiber Systems offers Point-to-Point T-1's and dedicated Internet access. Our Internet product offers connectivity to 4 Tier1 ISP's - AT&T, Internap, Aleron, and UUNet. We offer all the traditional telecom rates from DS-1 to OC-48. Our layer 3 routing capability affords us the ability to offer Virtual Local Area Network's (VLAN's). This innovative product offering allows customers to connect multiple locations and consolidate data into a single pipe.

Optical Ethernet Services

American Fiber Systems is one of the first service providers in the metro Atlanta region to offer Optical Ethernet services. Our extensive fiber backbone facilitates quick installation of services, and our current base of satisfied customers deploy this service in speeds of 10Megs to 1Gigabit.

[More information...](#)

Fiber Connectivity

American Fiber Systems will build directly to a customer's premises in order to take advantage of modern telecommunications services including Optical Ethernet and high capacity SONET pipes. This service allows our customers to have carrier choice as well as benefit from the security, reliability and capacity that dedicated fiber connectivity offers.

Wholesale

As a carriers' carrier, American Fiber Systems maintains a presence in most major Telecom Hotels in the Metropolitan Atlanta area, providing our customers the ability to interconnect to the carrier of their choice. Our high capacity connectivity can be used to

transport Data, ATM, Frame Relay, Voice over IP (VoIP), and Optical Ethernet. We also offer Dense Wave Division Multiplex (DWDM) to provide multiple OC-N wavelengths on a single pipe.

Services

Our diverse SONET ring provides our customers the reliability expected in today's environment. We operate a 24/7 NOC with highly skilled personnel that respond to service issues within 20 minutes and dispatches, if necessary, a technician on site within 4 hours. We also offer Consolidate Billing for ease in reconciling services and managing expenses.

Web Services

As a full service ISP, American Fiber Systems is positioned to offer a full array of web services.

[More information...](#)



Fiber Factoid

San Diego marks the first U.S. locale where broadband subscriptions outnumber dial-up.



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Voice Packages

CHOOSE ONE OF THESE OFFERS TO SERVE ALL YOUR COMMUNICATION NEEDS

PACKAGE 1 INCLUDES:

- * 5 Business lines with all features
- * 500 Minutes of Long Distance
- * 256 K Internet Access with 4 IP addresses

PACKAGE 2 INCLUDES:

- * 10 Business lines with all features
- * 1000 Minutes of Long Distance
- * 256 K Internet Access with 4 IP addresses

PACKAGE 3 INCLUDES:

- * 5 Business lines with all features
- * 500 Minutes of Long Distance

PACKAGE 4 INCLUDES:

- * 3 Business lines with all features
- * 300 Minutes of Long Distance

Additional lines, Internet and Long Distance are available at competitive rates.



Fiber Factoid

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Variable Rate Optical Ethernet Services

American Fiber System's Variable Rate Optical Ethernet Service extends dedicated Ethernet-based access to business subscribers and carriers within our 450 mile fiber based metropolitan area network. This cutting edge technology offering allows subscribers to purchase dedicated or shared bandwidth in increments from 1Mb to 1000 Mbps (Gig Ethernet) with service level guarantees.

Features:

- * Customer selected speeds from 1Mb to 1000 Mb (Gig E)
- * Time of Day bandwidth management
- * Service Level Agreements
- * Flexible grades of service with varying Committed Information Rate (CIR) and Burst Rates
- * Guaranteed on-time installation
- * 24 x 7 network monitoring, fault detections and technical support
- * Multiple Internet connections

Benefits

- * Lower installation and operating costs than traditional TDM services
- * Higher data rates for Internet access and Transparent LAN service applications
- * Rapid service provisioning
- * Flexible network for quick upgrades to higher speeds
- * Network optimized for low latency and fewer possible network failure points
- * Unmatched reliability and customer service
- * Managed and maintained customer premise equipment
- * Diverse access to multiple Tier 1 ISP's



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Web Hosting

American Fiber Systems manages the day-to-day technical administration of your website so that you can concentrate on your core business.

- * Storage space options to meet your needs
- * 24 x 7 monitoring with diverse internet backbone connectivity to multiple providers
- * Support for Front Page extensions and HTML scripts
- * First time InterNic registration on your behalf
- * Advances features such as Shockwave, Java, VRML, and Real Audio
- * POP e-mail boxes and e-mail forwarding

Enhanced E-mail

Our enhanced email services allow you to have access to your email wherever you are while providing premium message details and enhanced functionality and flexibility.

- * 10 e-mail boxes as part of services with additional boxes available for a nominal charge
- * 10 MB storage space part of basic offer
- * Customized domain mail support
- * POP3 support for Outlook, Outlook Express, Netscape Mail, and Eudora
- * Network optimized for low latency and fewer possible network failure points
- * Easy point and click administration



Fiber Factoid

San Diego marks the first U.S. locale where broadband subscriptions outnumber dial-up.



Products & Services

VPN

AT&T has a comprehensive set of IP VPN Services designed to leverage your existing network and maximize the return on your IT investments.

[Network-based VPN](#)
[Premises-based VPN](#)

Voice over Internet Protocol

Give your business the leading edge with VoIP services from AT&T.

[VoIP Services](#)
[IP PBX/LAN Management Services](#)

Hosting, Storage & IT Services

AT&T Hosting, Storage & IT Services offers an impressive set of powerful, flexible, and comprehensive web services, web site acceleration, caching and streaming, and uninterrupted access to your critical data and applications.

[Enterprise Hosting Service](#)
[Intelligent Content Distribution Service](#)
[Ultravailable Computing Service](#)
[Storage](#)
[Enterprise Messaging](#)
[SMTP Mail Relay](#)
[Business Internet Mail](#)
[Instant Messaging Service](#)
[Managed Applications](#)

Application Services

AT&T Applications Services portfolio includes a broad range of Hosting, Storage and IT, Messaging and Managed Application offers that will help you better manage your business.

[Conferencing Services](#)

Security

Use AT&T Security Services to assess and protect your vital network infrastructure.

[Internet Protect](#)
[Intrusion Detection](#)
[Firewall Security](#)
[Token Authentication Services](#)

Connectivity

Let AT&T's flexible, scalable solutions, reach and reliability help you meet your global voice and data needs.

[Access](#)
[Data](#)
[Voice](#)

Contact Centers

AT&T Contact Management Services provides advanced network technology to help you improve your contact center performance.

[Intelligent Call Processing Service](#)
[Integrated Contact Service](#)
[Resource Manager Service](#)

[VoiceTone Service](#)
[Contact Center Professional Service](#)

Network Integration and Consulting

Need help taking the complexity out of networking? Use AT&T Network Integration Services to receive end-to-end solutions meeting application, performance, and security needs.

[Design and Plan](#)
[Build and Construct](#)
[Manage and Maintain](#)

Dynamic Network Applications (DNA)

AT&T Dynamic Network Applications portfolio delivers integrated voice, video, conferencing and messaging capabilities that represent the next generation of converged business communications.

[VoIP Services](#)

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AT&T Business Center

The Most Complete Range of Business Services Available Online



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- [Voice Over IP](#) [Order](#)

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- [Dedicated Internet Service](#) [Order](#)

Data

- [Frame Relay](#) [Order](#)
- [ATM](#) [Order](#)

Integrated Offers

[AT&T Business Network](#) | [Learn More](#)

A comprehensive, end-to-end solution that combines all your services into a single, powerful network.

Combines Voice, Data, IP and Wireless Services

Provides usage discounts based on contractual obligations

[Order](#)

[AT&T All In One](#) | [Learn More](#)

Typically for small businesses, combines basic voice services on a single plan with a single bill.

Enter your telephone number to see what is available in your area!

- - [CHECK](#)

Sales & Assistance

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Toll-Free Look-Up Tool

Use the online look-up tool - the desired toll-free number is a 8** - -

8** - -

Enterprise Business

Case studies and white paper Enterprise customers.

[Learn More](#)

Special Offers | [View All](#)



New! AT&T All In One AdvantageSM

Unlimited Business Calling for one flat, monthly rate.

Order AT&T DSL Internet Service and earn 10,000 bonus miles in the Continental Airlines OnePass[®] program.

[Learn More And Order AT&T DSL Internet Service](#)

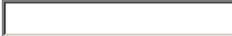
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Products & Services

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Solutions for Small and Medium Businesses

When you start comparing what telecommunications companies have to offer, AT&T stands innovative leader who can serve your needs at every stage of business growth. Here is the c range of products and services that are available for easy, online purchasing.

Voice Services

➤ **AT&T Long Distance**

With industry-leading service, great rates and trouble-free billing, AT&T makes sense for both your State-to-State and Regional Long Distance calls.



[View Details](#)

➤ **AT&T Toll-Free Service**

Give customers a fast and simple way to reach your business from anywhere in the US with a customized, easy-to-remember toll-free number and a clear AT&T connection.



[View Details](#)

➤ **AT&T Local Service**

Get competitive rates, superior quality with no peak or off peak pricing - all with a broad selection of features to meet your business needs.



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➤ **AT&T Calling Card Service**

Give your road warriors a low, flat rate for all US calls and terrific rates for international calls, along with the ability to teleconference from any phone.



[View Details](#)

➤ **AT&T Reservationless TeleConference & Web Meeting Service**

Have an impromptu conference call or Web meeting anytime, day or night. This convenient service requires no reservations and you pay only when the service is in use.



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➤ **Voice Over IP**

AT&T CallVantage Service is a revolutionary new digital voice service based on Voice over IP, or VoIP technology. It combines the power of your phone with your high-speed broadband Internet, and passes the savings on to you.

Of

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Internet Services

→ **AT&T Dial-Up Internet Service**

This inexpensive option is ideal for basic access to the Internet, a reliable backup connection or for employees who travel.

Of

[View Details](#)

→ **AT&T DSL Internet Service**

Up to 25 times faster than a typical 56K modem, this service is an affordable way to bring the productivity of a dedicated, high-speed connection to your office.

Of

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→ **AT&T Managed Internet Service: Dedicated T1**

Enjoy blazing speed with a dedicated T1 connection that's always on, all managed with smart routing capability and continuous performance monitoring of your network.

Of

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Data Services

→ **AT&T Frame Relay Service**

This high-performance data solution can seamlessly connect a number of company or partner facilities without multiple lines or access facilities. Whether it's multiple LANs between locations, conducting remote client/server computing, or server-to-server communications.

Of

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→ **AT&T ATM (Asynchronous Transfer Mode) Service**

For cutting-edge applications such as videoconferencing, medical imaging, financial transactions or running high quality voice over a data network, AT&T ATM Service is the solution that provides the highest bandwidth (T1.5 and higher) with the lowest latency

Of

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Integrated Offers

→ **AT&T Business Network**

AT&T Business Network is an open networking platform tailored to your unique business situation. That means all your communication demands can be served by a customized solution that consolidates all your voice, data, and IP services into one plan with built-in flexibility to account for your future needs.

01

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➔ **AT&T All In One®**

With AT&T All In One, you'll benefit from an easy-to-manage and cost-effective voice services solution specifically tailored to meet the needs of small businesses. Combine Long Distance, Local, Toll-Free and Calling Card onto one convenient plan, with a single customer service contact.

01

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AT&T Global Wholesale Services

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AT&T Wholesale Awards

[AT&T Global Wholesale Scores Top Grades in Six Subjects](#) [PDF, 46KB]

The annual ATLANTIC-ACM 2005 Domestic Wholesale Carrier Report Card recognized AT&T's Global Wholesale leadership with four '2005 U.S. Wholesale Carrier Excellence Awards' - for our Voice Services, Data Services, Customer Services and Sales Representatives.

We understand that the current changes in the telecommunications industry worldwide present real concerns for you as a service provider. AT&T Wholesale Services offers the necessary depth, breadth and experience in global wholesale communications to reduce your concerns about service continuity and help you grow your business.

AT&T delivers the scale of a world-class network, the scope to design customer-defined solutions and the skill of globally deployed professionals. Our customer support team provides an integrated customer experience and leverages industry knowledge to ensure the viability of your business. AT&T combines the strengths of both traditional products and IP for the wholesale market. We offer a comprehensive portfolio of wholesale Voice, Data, and IP services. Now is the time to leverage AT&T's world-class quality services for your customers' global telecommunications needs. Download the [AT&T Wholesale Services Overview](#) [PDF, 160K].

For more information on AT&T Global Wholesale Services, call your local AT&T Account Representative, or [contact us online](#).

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AT&T
wholesale
services

Overview of Global Wholesale Markets





wholesale services

We understand that the current changes in the telecommunications industry worldwide present real concerns for you as a service provider. You need assurances that your traffic will not be disrupted by sudden and unforeseen circumstances, or inhibited by restricted service capabilities. Now, more than ever, you need a provider with the necessary depth, breadth and experience in global wholesale communications to reduce your concerns about service continuity and help you grow your business. In short, you want your business in “safe hands.”

AT&T delivers the scale of a world-class network, the scope to design customer-defined solutions and the skill of globally deployed professionals. Our customer support team provides an integrated customer experience and leverages industry knowledge to ensure the viability of your business. AT&T combines the strengths of both traditional products and IP for the wholesale market. We offer a comprehensive portfolio of wholesale Voice, Data, and IP services.

We at AT&T would like you to know our commitment to the global wholesale market. Following is an introductory overview of our services.

AT&T Wholesale Services Portfolio

Your needs for connectivity are met by our comprehensive range of Voice Services, from the basics of outbound and inbound transit (including ISDN) and hubbing services up to advanced levels of carrier support for end-user calling cards, prepaid card services and collect calling.

AT&T Data Services offer a flexible portfolio of local, national and international data products and services – always with high levels of technical support that meet your needs as your business reacts to market forces. AT&T International Private Line is available in 94 countries, in varying feature/functionality and speed levels. AT&T Global MIS provides far-reaching IP coverage via 484 node cities in 52 countries. From Single Channel to T3 Services, AT&T Private Line Services offer an array of choices, all with high availability and performance, plus the security only Private Line can assure. AT&T also offers Local Channel Service and several Integrated Access Offers. For high-speed transport, high-level security and a network that can quickly scale to meet growth, AT&T offers flexibility around its industry-leading high speed packet services – Frame Relay and ATM. Private Line, Frame Relay and ATM are available for local, intrastate or interstate communications.

At the industry level, AT&T has the resources to provide highly specialized carrier-specific support.

Why

AT&T wholesale services?

Our strong heritage as well as financial health and stability offer a competitive advantage:

- AT&T is a leading carrier of minutes worldwide, transporting and terminating for traditional and emerging carriers, mobile networks and Internet Service Providers.
- A first-class infrastructure combined with established international agreements enables AT&T to carry minutes anywhere in the world.
- With our state-of-the-art technology and our powerful IP backbone network, we offer an extensive portfolio of communications solutions that provide world-class quality, breadth, reach, security and reliability to businesses in the global wholesale market.
- Our management options can simplify your customers' networking tasks, impose predictable cost structures and enhance your expertise. AT&T gives you flexible management and access, including access redundancy options.

AT&T has the best set of capabilities in the industry, serving the global communications needs of more than 4 million businesses in virtually every country and territory around the world.

Your Support Team

AT&T provides three levels of support for wholesale customers. A knowledgeable sales team of over 600 professionals is dedicated to the service provider market in the U.S. and globally. Global customer care is available through five Operations Centers with over 350 in-country support specialists. Wholesale customer care is provided by four Customer Care Centers with over 400 Customer Care Specialists with U.S. and international responsibilities. To focus these resources on the needs of your market, a product and offer team of over 110 experienced professionals guides the creation and integration of products and services crafted to serve your marketplace.

Solid Financials

AT&T stands apart from other industry players with a healthy cash flow and EBIT. Our solid finances enable us to continue investment in developing a strong service portfolio, and to deploy a new seamless, global network for meeting customers' needs.

AT&T

wholesale facts

Investing in Your Success

In 2002 alone, AT&T invested approximately \$300 million in global network expansion and approximately \$200 million in iGEMS. Annually, AT&T invests billions of dollars in:

- **Our People** - for ongoing training, tools and education
- **Our Processes** - for sales tools to increase efficiency and effectiveness
- **Our Technology** - for sophisticated e-Servicing, service management and monitoring tools

Heritage of Innovation

- Over 100 years of experience in the industry
- AT&T Labs breakthroughs for over 120 years
- First to establish 10-gigabit-per-second (OC192) service coast-to-coast in the U.S.
- First to deploy DWDM with 1,600 systems

Powerful Far-Reaching Network

- Over 61,000 route miles of fiber-optic cable:
 - 45,000 miles carry long-distance traffic
 - 16,000 miles support local service
- Dial-up Internet access in 850 cities, 59 countries
- Connects over 230 countries and territories directly or via bilateral and alternate routes
- Partner in 300,000+ miles of undersea fiber-optic cable
- 400+ correspondents and suppliers
- 6,000+ nodes and 200,000 private line circuits
- AT&T carries more combined data, voice and Internet traffic than any other carrier in the U.S.: 675 trillion bytes (terabytes) of data and 300 million voice calls (average day) Canadian NPAs to points within the mainland United States.

For more information, contact your AT&T
Representative or visit www.att.com/wholesale.





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[AT&T Customized Voice Networking Solutions for Your Business](#) [PDF, 85K]

AT&T helps keep your customers satisfied by helping you operate your own business processes smoothly and cost-effectively. Our advanced worldwide voice networking infrastructure is in place to

deploy and support your simple or complex internal voice solutions. With AT&T as your single source, you simplify the way you purchase and utilize voice telecommunication services in your day-to-day business operations

[AT&T Customized Voice Solutions for Service Providers](#) [PDF, 85K]

AT&T's advanced worldwide voice networking infrastructure is in place to deploy and support your simple or complex voice solutions around the world. For local, long distance, domestic and global voice requirements, AT&T offers best-in-class voice networking solutions to support your clients.

[AT&T Teleconference Services: Audio, Data, Video](#) [PDF, 36K]

AT&T's complete line of teleconference services reduces travel time and expense while increasing productivity wherever people are located. Hosting truly virtual meetings and sharing information is easier than ever before. In some cases, information is shared even more effectively than if the participants were in the same room.

[AT&T Network Connection Fact Sheet](#) [PDF, 40K]

Long distance services for carrier resale, with unbranded and unbundled access plus transport of calls over the AT&T switched network. AT&T Network Connection requires a US Carrier Identification Code (CIC). The service includes outbound service with unbranded Directory Assistance, inbound service with domestic and international Toll-Free Service, Fraud and Uncollectibles Management Service plus Call Detail Records.

[AT&T Pay 800 Service](#) [PDF, 92K]

Enables carriers to provide to a non-U.S. end-user access to U.S. toll-free numbers from the home country carrier on a toll paid basis.

[AT&T Global Hubbing Service](#) [PDF, 107K]

Supports competitiveness in international voice termination within home markets by routing traffic to AT&T for delivery.

[AT&T Global Hubbing IP Access](#)

Global Hubbing IP Access is the IP connectivity feature to Global Hubbing. It provides an effective alternative to building and maintaining an international network infrastructure for voice traffic and an alternative access solution for Internet Service Providers and next generation telecom companies as well as existing customers who wish to connect to AT&T Hubbing using an IP capability.

[AT&T Wholesale Card Platform with DA & OH \[PDF, 77K\]](#)

AT&T Wholesale Card Platform (AWCP) is a branded calling card network with operator services. AWCP adapts to your platform. Features include live operator services branded with your company name, a unique toll free number to access the card platform, existing calling card number portability or new card numbers. AT&T provisioning and account management tools integrate into your systems and processes.

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[AT&T Data Services for Service Providers](#) [PDF, 262K]

AT&T has been building and delivering mission-critical data services to enterprises and service providers for many years. As a total service access provider, AT&T Wholesale Services offers best-in-

class performance, service delivery and operational support enabling you to build flexibility, high reliability, performance and scalability into your service offerings. You may also leverage some of these same services to provide new technologies to your customers, or to better manage your ever-changing internal needs.

[AT&T Customer Premises Equipment Purchasing](#) [PDF, 67K]

AT&T Connectivity Solutions delivers the networking tools you need to simplify your network equipment purchases; whether undertaking a broad network design or upgrading existing equipment, AT&T combines the capabilities required for efficient purchasing of on-premises networking equipment.

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[AT&T IP Services for Service Providers](#) [PDF, 154K]

AT&T's IP and managed services portfolio allows customers to confidently and cost-effectively incorporate leading-edge capabilities into their networks. AT&T has built capabilities in our network to

allow you to create IP VPN solutions for your end customers that you can manage or that we can manage for you.

[AT&T Wholesale Roaming](#) [PDF, 68K]

AT&T Wholesale Roaming is an IP Dial service providing high-speed dial-up Internet access to corporate users needing connectivity to the Internet while traveling globally. This service provides a homogeneous worldwide IP Dial platform from 54 countries, backbone connectivity and transport, flexible billing options and much more.

[AT&T Internet Protect: A New Award-Winning Managed Security Service](#) [PDF, 171K]

AT&T Internet Protect is an Information Security Portal – a “breakthrough” intrusion prevention offering – that utilizes AT&T’s analysis of information from our IP backbone and provides insight regarding potential real-time intrusions and attacks that are occurring.

[AT&T Digital Subscriber Line \(DSL\) Internet Service](#) [PDF, 118K]

This high-speed access connection is “dedicated,” always available, and there’s never a busy signal. DSL is able to give customers high-bandwidth Internet access at a fraction of the cost of T1-based access. That’s because DSL dramatically reduces the circuit access charges and allows for traffic aggregation across a large number of customers.

[AT&T MPLS Private Network Transport: Future Proofing your IP VPN Architecture](#) [PDF, 128K]

AT&T provides a flexible, future-proof architecture that meets communications needs today – and tomorrow – by designing, engineering and building IP VPN solutions that enable the integration of the best of breed network architectures.

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[AT&T Application Services: Trusted Applications. New Revenue Opportunities](#) [PDF, 127K]

AT&T's mission-critical Application Services offer best in class performance, service delivery and operational support to enable service providers to build flexibility, high reliability, performance and

scalability into application services offerings for end users.

[AT&T Business Continuity Services - Protecting the Lifeline](#) [PDF, 4.25M]

AT&T can assist customers in designing, deploying, managing and evolving comprehensive business continuity solutions that address business security, availability and recovery requirements.

[AT&T Business Continuity Professional Services; Protect Your Business](#) [PDF, 124K]

To survive in today's business environment, companies must achieve a stable level of business continuity. AT&T's Business Continuity Professional Services are utilized by customers to assess their risk and manage preparations for the unexpected.

[AT&T Storage Connect ServiceSM](#) [PDF, 155K]

Using AT&T StorageConnect Service, clients can extend remote replication, backup and multivendor Storage Area Network (SAN) solutions between their own different locations and/or AT&T Internet Data Centers (IDCs) over any distance and using virtually any bandwidth and storage protocol.

[AT&T Ultravailable Managed OptEring Service](#) [PDF, 118K]

Simplifying IT infrastructure, reducing network complexity, reducing the associated operations costs and improving overall network performance: all these are critical issues for enterprises with multiple locations and varied interconnections.

[AT&T Point Of View: Protecting the Enterprise: Business Continuity](#) [PDF, 155K]

The fundamentals of networking, Business Continuity decisions and choosing a networking partner are critical issues for enterprises today. Facts, figures, benefits and regulatory issues are provided here.

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[AT&T World Class Services](#) [PDF, 144K]

AT&T offers a richly-developed portfolio of best-in-class wholesale services designed to satisfy the total communications needs of businesses worldwide. AT&T's global presence encompasses the US, Europe,

the Middle East, Africa, Canada, Latin America and Asia-Pacific regions. AT&T's global Data, IP and Voice services can help you expand and strengthen your network's infrastructure, manage your internal operations and customer services more effectively, and provide you with world-class service offerings to market to your customers.

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BUSINESS : PRODUCTS & SERVICES

voice services

▶ Frequently Asked Questions

▶ Service Coverage Area

▶ Voice Services

-Local & Regional

-Long Distance

-International Long Distance

-Voice T1

-Integrated Access Solutions

-"212" Numbers

-Calling Services & Features

▶ Data & High-Speed Internet

Contact Us

For more information
call 1-800-BROADVIEW
(1-800-276-2384)

Get the Edge with the Single-Source Solution

Finally, a solution that meets your need for service, simplicity and savings. With one source for everything from local calling to advanced data networking, you have easy access to a full spectrum of advanced communications. As your business prospers, we can provide the expanded services that support your growing needs. We can also help you control costs with low rates and billing information that makes tracking expenses simple. Switch to the company that really means business.

Voice Services

- **Local Phone Service** - Start saving on local calls, and simplify by consolidating all your calling through one carrier.
- **Regional Phone Service** - Low rates on calls within your state, but beyond your local calling area.
- **Long Distance Service** - Control the cost of both domestic and international long-distance calling with a choice of calling plans.
- **INTERNATIONAL CENTS LONG DISTANCE** – Your business can save money when calling the most popular international destinations across the globe. For a small monthly fee, you'll benefit from some of the best rates you can receive anywhere!
- **Voice T1 Service** - Utilize the Broadspeed® Voice T1 standard 1.544 Mbps digital transmission link with up to 24 channels for your outbound, inbound, and two-way local, regional, and long distance voice services. And, get one rate for all your domestic long distance calls in the continental U.S.
- **Integrated Access Solutions** - Tap into the full power of communications with Broadspeed Integrated Access Solutions. Using either a single Integrated T1 or Voice over DSL connection, Broadview Networks meets all your needs for local, regional, long

distance and higher-speed Internet access in one cost-efficient package.

- **One provider, one point of contact, one bill.**

** Savings will vary.*

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**BUSINESS : PRODUCTS & SERVICES****Data & High-Speed Internet****Discover the Full Potential of Your Business - Switch to Leading-Edge Data Communications**

With the power of broadband, your business can soar. Our data services enable you to distribute vital business information to employees, colleagues, customers and vendors - at maximum speed. The opportunities for productive collaboration are unlimited: e-commerce, telecommuting, video communications, distance learning and a whole world of network applications.

We've designed a complete family of data networking services and Integrated Access Solutions to help you compete in the rapidly evolving business scene. Whether you want high-speed dedicated Internet access or an integrated solution for your voice and internet services, we deliver. And with our web site hosting you can expand your business online, while keeping access costs in control. Call or e-mail us and find out how to get connected now.



[▶ Frequently Asked Questions](#)

[▶ Service Coverage Area](#)

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[▶ Data & High-Speed Internet](#)

- Dial-Up Service
- ADSL & SDSL
- Dedicated Internet T1
- Integrated Access Solutions
- Web Hosting

Contact Us

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BUSINESS : PRODUCTS & SERVICES

Service Coverage Area

▶ Frequently Asked Questions

▶ Service Coverage Area

- Connecticut
- Massachusetts
- New Hampshire
- New Jersey
- New York
- Pennsylvania
- Rhode Island

▶ Voice Services

▶ Data & High-Speed Internet

Contact Us

For more information call 1-800-260-8766



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BUSINESS : ABOUT US

Who is Broadview Networks?

- Experienced telecommunication consultants
- Our own leading-edge integrated network
- High-quality customer service
- Cost-effective business communications solutions

Broadview Networks is not just another telecom company. We are dedicated to meeting your communications needs while exceeding your expectations for service and savings.

Broadview Networks is the smart choice

Today, our expert telecommunication consultants, seamlessly integrated systems and highly automated processes enable us to cost effectively service more than 250,000 customer access lines in the northeastern United States. Our continued commitment to our customers means that we are here to stay.

Switch today and receive these benefits ...

- Wide-ranging, bundled communications solutions including voice, data, and high-speed Internet access — delivered through our state-of-the-art network
- Around-the-clock network surveillance, troubleshooting and maintenance at our Network Operations Center
- One-call customer service efficiently handled with our proprietary OPENnet™ software
- One monthly bill for your voice, data and Internet services
- Substantial savings compared to Verizon® access line and feature charges
- [90 Day Satisfaction Guarantee on Business voice services](#)

Broadview Networks brings you simplicity, savings and service and we actively give back to the community through our business and residential partnership programs.

Broadview Networks - the single source provider for all your communications solutions

- **VOICE SERVICES**
Local Phone Service • Regional Phone Service • Long Distance Phone Service • International Phone Service • T1 Service • Integrated Access Service • Service Features
- **INTERNET SERVICES**
DSL High-Speed Internet Access • Web Site Hosting • Dial-Up Internet Access • E-mail

▶ **Broadview Networks**

▶ Community Partnership

▶ Corporate Milestones

▶ Job Openings

▶ Investor Relations

▶ Partnerships & Alliances

▶ Technology & Operations

- **DATA NETWORKING**

Data T1 Service • Internet Access • Intranet and Extranet Services
• Virtual Local Area Networks (LANs and Virtual Servers) • Virtual Private Networks • Business Class Hosting Services

Our success is measurable

- Over 250,000 access lines in service
- more than 600 employees
- 12 sales offices
- 2 inbound customer call centers backed by a team of support specialists
- 4 central office switches
- 2 Data centers
- Advanced technology integration lab

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BUSINESS : PROMOTIONS & OFFERS

voice plans

Switch and save with local, regional, and long distance calling - even Internet connection - all from one company. Choose the plan that is right for your business and enjoy the savings of great low rates. And save time with one easy-to-read phone bill. There's never been a better time to make the switch!

▶ Current Promotion

▶ Voice Plans

- NY Plans
- MA Plans
- NJ Plans
- PA Plans
- RI Plans
- NH Plans
- Voice T1+PRI
- Integrated Access Solutions

▶ Data & Internet Offerings

Contact Us

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- **Easy Minute Plans** - Give your business the advantage of a low per minute Local usage charge, billed in one-minute increments. With the Easy Minute Plan, you get this benefit plus low per minute rates for regional, in-state and state-to-state long distance in the continental U.S. Available in NY and MA.
- **No NonCents Business Plans** - Depending on the No NonCents plan you choose, your business can get *truly unlimited* local, regional and long distance calling for a predictable low flat monthly fee. That means that no matter how many calls you make, you have the peace of mind of knowing that your getting a great rate that you can count on every month. Available in NY, MA, NJ, PA, RI and NH.
- **Integrated Access Solutions** - Tap into the full power of communications with Broadspeed Integrated Access Solutions. Using either a single Integrated T1 or Voice over DSL connection, Broadview Networks meets all your needs for local, regional, long distance and higher-speed Internet access in one cost-efficient package.

Interested?

If you are a Broadview Networks customer or might be interested in becoming one, [click here](#) to email us about taking advantage of one of these great new offers. If you're an existing customer, please provide us with your Billing Telephone Number or Account Number in the email. Or if you wish, you can call us at 1-800-BROADVIEW (1-800-276-2384).

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**BUSINESS : PROMOTIONS & OFFERS****data & internet offerings****Smart, Simple, Fast**

Broadview Networks is your easy route to the Web. Whether speed, site-hosting or savings on basic connections, we have a solution for you. And managing your communications is easier than ever because our Internet solutions are fully integrated with our voice and data services. So you enjoy the convenience of one point of contact, one monthly statement and one superior network.



▶ [Current Promotion](#)

▶ [Voice Plans](#)

▶ [Data & Internet Offerings](#)

- Dedicated Internet T1
- Dial-Up Service
- DSL
- Integrated Access Solutions
- Web Hosting

Contact Us

For more information
call 1-800-BROADVIEW
(1-800-276-2384)

Select the service that fits your needs:

- **DSL** – Ultra-fast performance – up to 50x faster than with a traditional 28.8k modem. And with our new BroadSpeed® DSL offers, there's big savings when compared with other high-speed Internet access offerings.
- **DEDICATED INTERNET T1** - High-speed Internet connections for your business at speeds of 1.5 Mbps or 3.0 Mbps.
- **Dial-Up Internet Access** – Unlimited access and no setup fees. As low as \$15.95 per month.
- **Integrated Access Solutions** - Tap into the full power of communications with BroadSpeed Integrated Access offerings. Using either a single Integrated T1 or Voice over DSL connection, Broadview Networks meets all your needs for local, regional, long distance and higher-speed Internet access in one cost-efficient package.
- **Web Site Hosting** – We'll host your web site and provide quality services 24/7 for as little as \$19.95 per month.

*Restrictions apply to all plans. Broadview Networks, Inc.
Services are not immediately available in all areas.*

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- ENTERPRISE SERVICES
- CARRIER SERVICES
- GOVERNMENT SERVICES
- AT HOME SERVICES
- ALL SERVICES**
- PARTNERS & ASSOCIATIONS



"...harnessing the power of the best network infrastructure in the world to deliver the services you need."

You're the kind of customer who knows exactly what you're looking for - Broadwing solutions for your data, voice, video and integrated communications needs.

- Audio Conferencing
- Business Continuity Services
- Calling Card Services
- Capacity Services Overview
- Connect Family of Services
- CoreConnect
- CPE
- CPE-Based VPN
- Dedicated Internet Access
- DSL for Frame Relay
- DSL for IP
- Enhanced Frame Relay
- Enhanced Toll Free Services

- Frame Relay / ATM
- FrameConnect
- International Dedicated
- Internet Access
- International
- Frame Relay / ATM
- International Private Line
- International Services Overview
- Local Access Overview
- Managed Network Services
- Managed Security
- Managed WAN
- Media Services Overview

- MultiConnect
- MultiConnect Express
- MultiConnect
- International Extension
- MultiConnect ReDirect
- Network-Based VPN
- Private IP Services
- Private Line
- Switched & Dedicated Voice
- Voice Resale
- Voice Services Overview
- VoIP
- Wavelength
- Wide Area Networking

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- Customer Experience
- Converged Network
- Connect Family
- Data Services**
- Wide Area Networking
- Business Continuity
- IP Networking
- Capacity Services
- Media Services
- Voice Services
- Enabling Services

It's more than just ones and zeros - it's what makes your business tick. Broadwing data transport is all about options. Options that provide you with the speed, security, capacity and expense parameters your business requires.



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Wide Area Networking

Customer Experience

Broadwing offers many solutions for your wide area network infrastructure. Let us help you find the right one to meet your specific needs for speed, security, capacity and expense.

Converged Network

Connect Family

Data Services

Wide Area Networking

Private Line

Wavelength

MultiConnect

Frame Relay / ATM

Frame Relay over DSL

Private IP Services

Business Continuity

IP Networking

Capacity Services

Media Services

Voice Services

Enabling Services

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Business Continuity Services

Customer Experience

Sometimes bad things happen to good networks. Major weather incidents, earthquakes, Bob the backhoe operator - you name it. It's not what happens that matters; it's how your provider deals with it.

Converged Network

Connect Family

Data Services

We know that failure, for whatever reason, is not an option when it comes to your critical data. That's why Broadwing offers re-routing and recovery options to protect the integrity of your networks.

Wide Area Networking

Business Continuity

MultiConnect ReDirect

Frame Connect

IP Networking

Capacity Services

Media Services

Voice Services

Enabling Services

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IP Networking

Customer Experience

Converged Network

Connect Family

Data Services

Wide Area Networking

Business Continuity

IP Networking

Public IP Services

Private IP Services

VoIP

Capacity Services

Media Services

Voice Services

Enabling Services

In today's networked economy, businesses depend more than ever on reliable, high-performance Internet connectivity to communicate with customers, partners and employees. Broadwing's one-of-a-kind all-optical network is setting a new standard for networking capabilities with the capacity to handle the most bandwidth-intensive applications - literally at the speed of light. By combining state-of-the-art optical technology with best-in-class customer service, Broadwing delivers the quality Internet services that your enterprise demands.

Guaranteed Performance

- Aggressive on-net and off-net SLAs that cover the core Broadwing network (on-net) and Broadwing's interconnections with top peering partners (off-net)
- On-net guarantees include:

- 100% network availability
- Less than 1% packet loss
- 50 ms domestic round-trip latency

Advanced Network

- Award-winning, all-optical transport infrastructures
- Unique architecture keeps regional traffic regional with one-hop routing between regions, assuring low latency and efficient traffic delivery for your mission-critical data
- Robust peering with more than 200 peering relationships with other providers in multiple, geographically dispersed locations, giving you the full benefits of the Internet's reach
- Dual vendor architecture protects against vendor-specific software or hardware failure by using both Cisco and Juniper hardware

Product Range, Flexibility and Security

- Flat-rate Internet connectivity enables you to pay for the speed you need at a consistent monthly price
- Available from fractional DS-1 to OC-48, including DSL and Gigabit Ethernet, with fractional speeds on most circuit types to tailor bandwidth to your needs
- Burstable Internet connectivity provides your applications the bandwidth they need, when they need it most
- Usage-based pricing plans assure you that you pay for only what you use
- Flexible CPE options - Broadwing delivers you fully configured routers for your high bandwidth connection with optional router management services for a fully hands-off service
- Broadwing VPN solutions combine the reach of IP with the security of private networking

- For additional flexibility we offer both managed network-based and CPE-based VPN services
- Broadwing managed firewall and intrusion detection services let you reap the full business benefits of the Internet while protecting against security threats

Outstanding Customer Service

- Proactive monitoring performed 24x7x365
- State-of-the-art Network Operations Center with direct access to experienced network technicians
- Web-based reporting tools to deliver superior customer support when and how you want it
- Professional, courteous and prompt customer support

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 - Business Continuity
 - IP Networking
 - Capacity Services
 - Core Connect
 - Private Line
 - Wavelength (OCX)
 - Media Services
- Voice Services
- Enabling Services

Broadwing's nationwide, all-optical network is ideally suited for your high-capacity bandwidth needs. The very nature of our network enables us to provide you with massive capacity with far less lead-time and upfront expense than other options.

Broadwing's capacity solutions include:

- [CoreConnect](#)
- [Private Line](#)
- [Wavelength](#)

For customers that require the most direct connection to the Broadwing network, colocation services are available at Broadwing POPs.

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Media Services

Customer Experience

Imagine the possibilities of having access to the newest, most technologically advanced video transport network in the U.S. Now experience it.

Converged Network

Connect Family

Data Services

Introducing Broadwing Media services, the next generation media services platform enabled by a one-of-a-kind, nationwide, all-optical network - and the first media network built with the rapidly changing needs of media professionals in mind.

Wide Area Networking

Business Continuity

IP Networking

Capacity Services

Media Services

Voice Services

Enabling Services

Broadwing Video Services

Next Generation Media Services Platform

- Based on the newest and best nationwide all-optical network
- 100% QoS
- Custom designed solutions to meet your specific needs
- Flexible bandwidth allocation and pricing options

Positively Different Customer Experience

- 24x7x365 technical field support, dispatched to resolve trouble where ever, when ever you need us
- Specialized Television Operations Center to schedule media events, perform trouble-shooting and monitor the quality of your entire media event
- 24x7x365 customer care

Capabilities

- File transfer
- ASI Broadcast Quality compressed video
- 270 Mb mezzanine level HDTV
- SDI Contribution Quality video transport
- MPEG2 and MPEG4 enabled
- Transmit multiple channels of audio to enhance the end-user experience
- Managed access to third-party switches

Access Options

- TV1, DS3, SDI, OC3, OC12, GigE, Dark Fiber, ATM, IP

Dedicated Video Services

- Dedicated Service means your video transport is always on and always available
- Real-time transport of network video anywhere on Broadwing's video network
- Highly adaptable to accommodate high-profile news, sports and special events
- Virtual teleport services for multiple-location operations tying in teleports other remote locations enable you to more efficiently manage your resources

- Supports central-casting capabilities

Occasional Use Video Services

- Priced per megabyte/per minute with a 5-minute minimum
 - Order and pay for only what you need
- Fast lead times to ensure your breaking stories get where they need to go, when they need to get there
 - Service will be provisioned within 15 minutes of an order

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Voice Services

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Data Services

Voice Services

Switched & Dedicated

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Enabling Services

Long Distance. While it's not the "hot new thing," it's a cornerstone communications service that your business uses for applications ranging from sales and customer support to vendor management. Your business needs a voice service that provides the quality, flexibility and affordability that allows you to serve your current customers and grow to serve your future customers.

Broadwing offers a full array of dedicated and switched voice services: long distance, toll-free, audio conferencing and other enhanced voice services. The Broadwing voice network is built on industry-standard Nortel DMS switches operated on the industry's only all-optical network. Combined with flexible rate plans, web-based reporting tools, and superior customer support, Broadwing delivers the end-to-end voice services that your business needs and more.

The services that match your growing business needs

- **Grow with Broadwing**

Grow from Switched services (for small-to-medium businesses) to Dedicated services (for medium-to-large businesses) with a single provider.

- **Wide range of Services**

Get outbound (1+) and inbound (8XX) services and select from a range of enhanced services, including audio conferencing, calling cards, international termination and blocking, toll free origination and routing control, directory assistance and operator services all from one provider - Broadwing.

The billing tools you need to manage your costs

- **Online Tools**

Call-Vision billing tools provide you the control you need, including spreadsheet bill management.

- **Account Code Billing**

Ensure accurate call accounting with account code billing.

- **Flat Rate Calling**

Decrease accounting complexity with one flat rate per minute for both inter- and intra-state calls.

- **Four-Decimal Billing**

Pay for only what you use with four-decimal-place billing with no rounding.

BROADWING ONLINE TOOLS
(E-Billing, Network Mgt, etc.)
Click here to access the system



The quality you demand

- **Continuous Network Management**
Self diagnosis of network equipment prevents network failures.
- **Proactive Routing**
Management of redundant hierarchical network routes provides the highest quality.

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Switched & Dedicated Services

Customer Experience

Go the distance with Broadwing. Broadwing offers both nationwide and international long distance services, without the 'certain states restrictions' limiting other large telecom companies.

Converged Network

Connect Family

Data Services

Voice Services

Switched & Dedicated

Switched Voice

Broadwing offers Switched Voice Long Distance services in the Continental United States. As your presubscribed Long Distance Carrier, Broadwing will be proud to carry our calls across the street across the state or around the world.

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Enabling Services

Dedicated Voice

Connect your business directly to Broadwing's superior voice network and unleash the power and feature set of our comprehensive Dedicated Voice Services Portfolio. You have options with Broadwing - connect your business with a dedicated DS1, DS3 or OCX connection to a conveniently located Broadwing switch. We'll take it from there, providing quality origination or call termination services to any location in the U.S. or around the world.

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Enhanced Toll-Free Services

Customer Experience

Converged Network

Connect Family

Data Services

Voice Services

Switched & Dedicated

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Enabling Services

Enhanced Routing 8XX service is designed to help you adjust quickly to changing customer needs. It's the perfect call-center solutions for customers who need the flexibility to re-route the termination of incoming 8XX calls quickly and easily, based on a number of variables.

Origination Control

- Origination Control allows for the customer to control who can terminate to their 8XX service.
- The restriction or allowance of calls is based on the geographic origination of the call and can be defined by NPA-NXX, LATA, State or the U.S. and limited international regions.

Enhanced Routing Controls

- **Time of Day/Day of Week**
An incoming 8XX call can be routed to multiple locations based on the Time of the Day in half-hour increments (i.e. 0830, 1200, 1530, etc.) and the Day of Week that the call is received.
- **Day of Year/Holiday**
 - o An incoming 8XX call can be routed to multiple locations based on the Day of the Year and Holidays.
 - o Holidays are based on a standard Holiday schedule, enabling customers to leave their TOD/DOW routing in place and still make exceptions for holiday call volume.
- **Percentage Allocation**
 - o Incoming 8XX calls can be distributed to multiple destinations based on percentages in 5% increments.
- **Geographic Routing**
 - o Incoming 8XX calls can be routed to up to 100 locations based on the originating state or the NPA-NXX.
- **Emergency Redirect**
 - o A number can be re-routed to a different terminating location quickly when an emergency makes such routing necessary.
 - o These routing changes may be made within 45 minutes from the receipt of the Emergency Redirect order.
- **Network IVR**
 - o A 1 to 10 prompt audio menu is developed in cooperation with the customer.
 - o Callers then use this menu to self-direct their calls to the appropriate call center or destination.
 - o Completely configurable for re-prompt tries and destinations.

Inbound Features

- **Vanity Numbers**
 - o Broadwing can check to determine if a vanity number is available and reserve the number upon the customer's request.
- **8XX Directory Listings**
 - o Customer name and 8XX number can be listed in the national 8XX database.
- **Network IVR**
 - o 1 - 10 Audio menu prompts guide the caller to multiple call center destinations.
- **International Toll Free Service (ITFS)**
 - o Inbound toll-free access from over 60 countries.
- **Dialed Number Identification Service (Dedicated Only)**
 - o DNIS delivers the dialed number as part of the call record, which enables the customer to identify their traffic by dialed number, even if several 8XX numbers terminate to the same location.
- **Automatic Number Identification Delivery (Dedicated Only)**
 - o ANI delivers the number of the calling party to the terminating location.
- **Direct Termination Overflow (DTO) (Dedicated Only)**
 - o If all DS0s on a T1 are in use, DTO allows for incoming calls to be routed to another T1 or to a POTS number.

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Calling Card

Customer Experience

Protect yourself and your business from high, unpredictable rates charged by public pay phone services and collect calling - use a Broadwing Calling Card around town, around the country, and even around the world!

Converged Network

Connect Family

Data Services

Just dial an easy-to-remember toll-free number to access Broadwing's Network and reach.

Voice Services

Switched & Dedicated

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Enabling Services

Optional Features

Account codes

Controlled usage/credit limit

Card number blocking (fraud protection)

Speed dialing

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Audio Conferencing

Customer Experience

Converged Network

Connect Family

Data Services

Voice Services

Switched & Dedicated

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Enabling Services

Broadwing Audio Conferencing

Broadwing Audio Conferencing provides a convenient, reliable and inexpensive method to connect your employees, vendors and partners. With Broadwing Audio Conferencing your business will maximize participation, reduce travel time and minimize expenses.

Accessibility

Access your conference from any touch-tone phone around the world. Web-based management tools give you the accessibility you need to organize a meeting and monitor your account.

Security

Each of Broadwing's services includes security measures to ensure your conference is only available to approved participants. Entry and exit tones announce the arrival or departure of each participant. Host and conference name or a predetermined pass code is required on each call. Participant or operator initiated calls with user authenticity codes.

Flexibility

With each of our conferencing services listed below, we offer the flexibility of toll and toll-free conference numbers, passcodes, 24x7x365 services and operator assistance.

Services include:

Meet-Me

Participants initiate and access the conference call by dialing a predetermined telephone number at the scheduled time. An operator will greet each participant and ask for the host and company of the conference, the confirmation number or the title before connecting a participant with his or her call. This service is available via a toll or toll-free number.

Conference on Demand / Personal Conference Bridge

This service is available 24x7x365 and eliminates the need to schedule a conference ahead of time. Attendees are admitted to the conference call automatically by use of an assigned toll or toll-free dial-in number and a pass code.

Operator Assisted Service

Conference operator initiates the calls to each participant for the conference. Participants unavailable at the start of the conference are left instructions on how to join the call via a toll-free number.

Pass code

By entering your predetermined pass code, this service eliminates the use of an operator and is available either through a toll or toll-free number.

Cost Effective

Because Broadwing owns, operates and manages its entire 18,500+ mile, all-optical switched network, we are able to offer you cost-effective solutions for all your calling needs. Avoid price increases caused from third-party markups. No minimums or setup fees. Pay only for what you use with per minute/per person billing. No surcharge on domestic calls.

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VoIP

Customer Experience

Broadwing is developing a feature-rich suite of voice over IP (VoIP) services, specifically tailored to our customers' requirements today and in the future. Broadwing's unique, all-optical network architecture is the perfect foundation for VoIP and will ensure a low latency, high quality VoIP offering that is also cost effective for customers.

Converged Network

Connect Family

Data Services

Broadwing will deliver a comprehensive product offering including local and long-distance calling, voice virtual private networks (VPN), personal web portals for customer self-management, unified messaging and dedicated Internet access.

Voice Services

Switched & Dedicated

Enhanced Toll-Free

Calling Card

Audio Conferencing

VoIP

Broadwing expects to have its VoIP offering generally available in 2004.

Enabling Services

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- Customer Experience
- Converged Network
- Connect Family
- Data Services
- Voice Services
- Enabling Services**
- International Services
- CPE & Managed Network
- Local Access Options

Just like the icing makes the cake and clothes make the businessman, Broadwing enabling services make core network services even more valuable to your enterprise. Whether you need worldwide connectivity, multiple local access options or a complete equipment and managed services solution, you can count on Broadwing.



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Local Access Options

Customer Experience

At Broadwing, we recognize that the last mile is a major priority for your business. We strive to bring our state-of-the-art, all-optical network closer to you every day - at all the speeds and via the access methods you need and all from a single point of contact.

Converged Network

Connect Family

Data Services

We team up with leading local service providers to bring you the best service options at the most competitive rates available.

Voice Services

Enabling Services

Broadwing's access solutions include:

International Services

CPE & Managed Network

Local Access Options

DSL for Frame and IP

Depending on your business requirements, DSL provides the "just right" access solution when dial-up is not fast enough and dedicated T1s are cost prohibitive.

Ethernet

The newest generation of local access extends this familiar technology from your LAN to the WAN and across the Broadwing high-speed network. Broadwing understands Ethernet in the Wide Area Network, having successfully deployed the nation's first commercial GigE Private Line in May of 2001 between California and New York. Today, Broadwing offers Ethernet Private Lines in 50, 100, 150, 300, 600 and 1000 Mbps speeds, and Ethernet Access to the Internet at speeds ranging from 100 to 1000 Mbps.

Leased Line

Dedicated links from your premises to the Broadwing network are available in speeds from DS0 to OC192, completing your private loop.

LEC UNI

Broadwing has systematically invested in private LEC connections in virtually every inhabited LATA in America, enabling extremely affordable lower-speed access to our nationwide Frame Relay network.

Colocation

For customers that require the most direct connection to the Broadwing network, colocation services are available at Broadwing POPs.

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Carrier Services

Customer Experience

Converged Network

Connect Family

Infrastructure Services

Enabling Services

Service Extensions

We are proud of our legacy as a "carrier's carrier" and because of this, Broadwing truly understands what it takes to meet the unique needs of your business and your valued customers. Our nationwide, one-of-a-kind, all-optical network enables rapid provisioning and flexible capacity to the core, so we can be there for you, when and where you need us.

Broadwing is committed to providing a deliberately different customer experience -- and carrier customers receive a special level of treatment. Innovative solutions to your infrastructure or service portfolio needs are developed and managed by a passionate team of engineering, installation, billing and service specialists dedicated to exceeding your expectations - every single day, every step of the way.

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Customer Experience

Converged Network

Connect Family

Infrastructure Services

CoreConnect

Private Line

Wavelength

Wholesale Voice Services

VoiceConnect

Enabling Services

Service Extensions

Broadwing's nationwide, all-optical network is ideally suited for your high-capacity bandwidth needs. The very nature of our network enables us to provide you with massive capacity with far less lead-time and upfront expense than other options. Whether you are looking to economically expand your service footprint or quickly add capacity, Broadwing has you covered.



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Wholesale Voice Services

Customer Experience

Broadwing has a long and proud history as a wholesale voice provider. We've been enabling other carriers and service providers for decades. Whether you need infrastructure solutions to broaden your voice footprint, or prepackaged voice services for resale to brand and add into your service portfolios, Broadwing is there to meet your needs.

Converged Network

Connect Family

Infrastructure Services

CoreConnect

Private Line

Wavelength

Wholesale Voice Services

VoiceConnect

Enabling Services

Service Extensions

Our state of the art voice network is constructed over and rides the Broadwing All-Optical Core Network. This translates into speed, reliability and quality for you as a service provider - critical features for our customers and for yours.

Broadwing let's you drive with our fully automated online customer access portal, Broadwing OnLine (BOL). BOL enables you to order, activate and set up features, make feature changes, download and upload information, and collect billing records in one convenient online system. With BOL, there is no need for you to invest in constructing costly back office systems because we provide much of the back office support you need to enable your long distance operations.

As a part of Broadwing's Infrastructure solution kit, we bring Wholesale Voice Services to facilities-based carriers. With as little as one interconnection from your switch to a conveniently located Broadwing switch, you will gain access to Broadwing's facilities-based U.S. Network, and best-of-breed partners for International services. With Broadwing's Wholesale Voice Origination or Termination services, you get quality, reliable and fast connections from and to your domestic and international destinations.

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Local Access Options

Customer Experience

At Broadwing, we recognize that the last mile is a major priority to connect you and your customer. We strive to bring our state-of-the-art, all-optical network closer to you every day - at all the speeds and via the access methods you need and all from a single point of contact.

Converged Network

Connect Family

Infrastructure Services

Enabling Services

CPE

Local Access Options

Service Extensions

We team up with leading local service providers to bring you the best service options at the most competitive rates available.

Broadwing's access solutions include:

DSL for Frame and IP

Depending on your business requirements, DSL provides the "just right" access solution when dial-up is not fast enough and dedicated T1s are cost prohibitive.

Ethernet

The newest generation of local access extends this familiar technology from your LAN to the WAN and across the Broadwing high-speed network.

Leased Line

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Colocation

For customers that require the most direct connection to the Broadwing network, colocation services are available at Broadwing POPs.

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Service Extensions

Customer Experience

Converged Network

Connect Family

Infrastructure Services

Enabling Services

Service Extensions

Data Services

Voice Services

International Services

Broadwing has been in the business of enabling other service providers for decades. We are committed to helping you grow your carrier business and your product portfolio. Introducing Broadwing Service Extensions, a suite of packaged products and services that will enable you to expand your service portfolio without having to make investments in constructing a network infrastructure or a product platform. Our Service Extensions are available immediately for private label resale.

Under the heading of Data Services, Broadwing offers a suite of:

Wide Area Networking Services that include:

- Private Line
- MultiConnect
- Frame Relay / ATM
- Frame Relay over DSL

IP Networking Services that include:

- Public IP Services
- VoIP Services

Media Services

We also offer a suite of Voice Services for resale:

Switched & Dedicated Voice Services

Enhanced Toll-Free

Calling Card Services

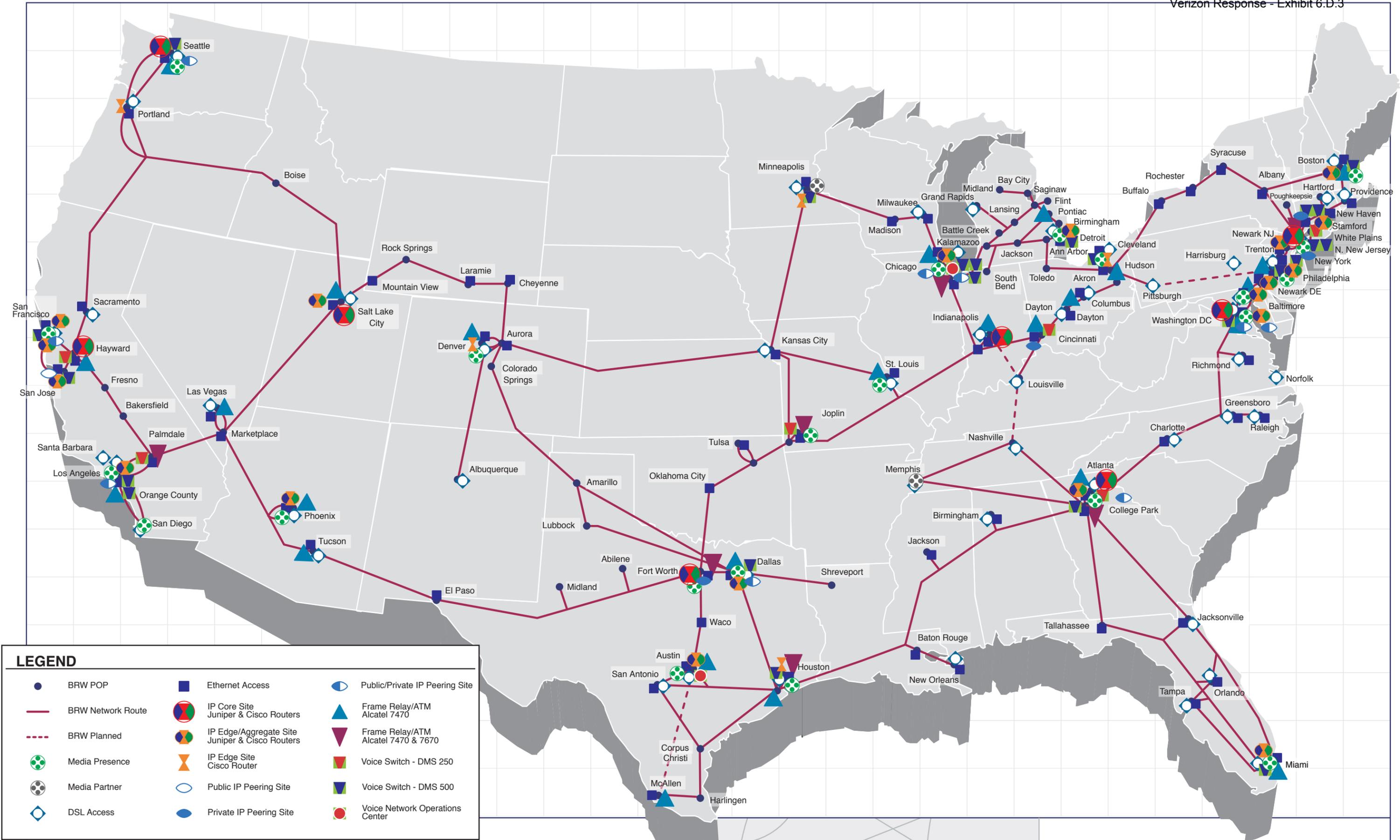
VoIP Services

And what competitive portfolio would be complete without International Extensions?

Broadwing offers International Services that include:

- Frame Relay & ATM
- Dedicated Internet Access
- Private Line
- MultiConnect





LEGEND

- BRW POP
- BRW Network Route
- - - BRW Planned
- ⊗ Media Presence
- ⊗ Media Partner
- ◊ DSL Access
- Ethernet Access
- ⊗ IP Core Site Juniper & Cisco Routers
- ⊗ IP Edge/Aggregate Site Juniper & Cisco Routers
- △ IP Edge Site Cisco Router
- ⊗ Private IP Peering Site
- ⊗ Public/Private IP Peering Site
- ⊗ Public IP Peering Site
- △ Frame Relay/ATM Alcatel 7470
- △ Frame Relay/ATM Alcatel 7470 & 7670
- Voice Switch - DMS 250
- Voice Switch - DMS 500
- ⊗ Voice Network Operations Center