

**XO**

## XO Surpasses One Million Business VoIP End Users

See how we set an industry milestone for business VoIP services.

[» Read the Press Release](#)



Services for Businesses

- ▶ [VoIP Services](#)
- ▶ [Network Services](#)
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[Carrier/Wholesale Services ▶](#)

### SIP Trunk Services: The Foundation of Unified Communications

Download this free report to learn SIP Trunking standards, benefits, evaluation criteria, and implementation considerations



[Download Now ▶](#)

### Solutions Built Around You.

XO Communications is a leading communications and networking solutions partner for businesses, enterprises, government and service providers. More than 50% of companies in the Fortune 500 turn to us to help them simplify their communications, optimize network performance, enhance customer service and increase productivity. [Learn how we can help your business ▶▶](#)

### Celebrating One Million Business VoIP End Users!

Thanks to our customers and employees, XO Communications has reached a pivotal milestone, surpassing one million business VoIP end users. This video retraces the history of our service as well as testimonials from some of our customers and employees.

[Learn more ▶▶](#)

### XO® Special Offers

Take advantage of XO's Special Deals & Bundle Offers available now through December 31, 2010. MPLS IP-VPN, VoIP, Colocation and more...



[View Offers ▶](#)

### XO Customer Care

- ▶ [Customer Care Center](#)
- ▶ [Login - Business Center](#)
- ▶ [Login - Web Hosting](#)



## About XO Overview

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### About XO

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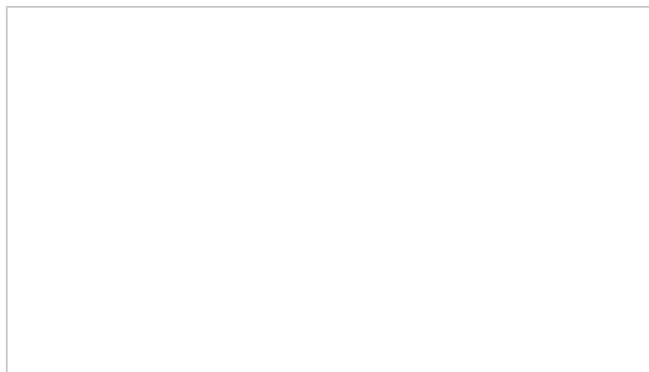
[Business Connections -  
Referral Program](#)



### Solutions Built Around You

XO Communications is one of the nation's largest communications service providers focused exclusively on businesses, government, domestic and international telecommunications carriers, cable companies, content providers and mobile wireless companies.

With Solutions Built Around You, XO Communications offers customers the right network, the right solutions and an unrivalled focus on delivering the best customer experience.



### We serve customers through three primary business units:

**XO® Business Services** provides advanced VoIP, Internet, managed network, and hosted IT solutions for small and medium sized businesses, enterprises and government agencies.

**XO® Carrier Services** delivers high-bandwidth IP and inter-city network transport services for domestic and international carriers, service providers, cable companies and mobile wireless companies.

**XO® Small Business Services** offers a range of Software-as-a-Service applications to help emerging companies manage and expand their businesses. These services include hosted email and messaging, web site and applications hosting, domain management, and professional services related to these services.

### The Right Network

XO Communications operates a nationwide multi-terabit network that delivers industry-leading IP and network solutions at the fastest speeds available today. We've built our state-of-the-art network from the ground up with the industry's most advanced IP and optical technology available. Our unrivalled network assets include nationwide IP and transport networks, metro networks, broadband wireless access and connectivity to global service locations for door-to-door delivery of customer traffic nationwide and around the world.

### Network Assets

- Approximately one million miles of metro fiber
- 19,000-route mile nationwide inter-city fiber network
- Nearly 1,000 central office collocations
- More than 3,000 fiber-fed buildings on-net

### Quick Links

- [XO Fact Sheet \(PDF\)](#)
- [Complete List of Services](#)
- [Awards and Recognition](#)
- [Business Connections - Referral Program](#)
- [Become an XO Customer Reference](#)

### The Company

- More than 4,000 employees
- \$1.52 billion in revenue (2009)
- Founded 1996
- Headquartered in Herndon, VA

### Customers

Exclusively serves businesses, government, domestic and international telecommunications carriers, cable companies and mobile wireless service providers

- More than 90,000 customers
- More than 50% of the Fortune 500
- Federal, state and local governments and agencies
- State and local education institutions
- 17 of the world's 20 largest telecommunications companies
- 8 of top 10 mobile wireless companies
- 9 of top 10 cable companies
- The three most popular Internet search engines

### Services

- [Voice over Internet Protocol \(VoIP\)](#)
- [Network Transport](#)
- [Voice Services](#)
- [Hosted IT Services](#)
- [Carrier Services](#)

### Ticker Symbol

- A subsidiary of

XO Holdings, Inc.

- OTC: XOHO

- More than 50 collocation facilities nationwide
- Fully peered Tier 1 IP network with more than 100 private and public peering relationships
- 28-31 Ghz broadband wireless spectrum in 75 markets
- More than 20 billion VoIP minutes per year

### [XO / A Trusted Partner](#)

See what we can do for your business with Solutions Built Around You.

[Business Services](#): 866.349.0134 | [Carrier Services](#): 800.474.1763

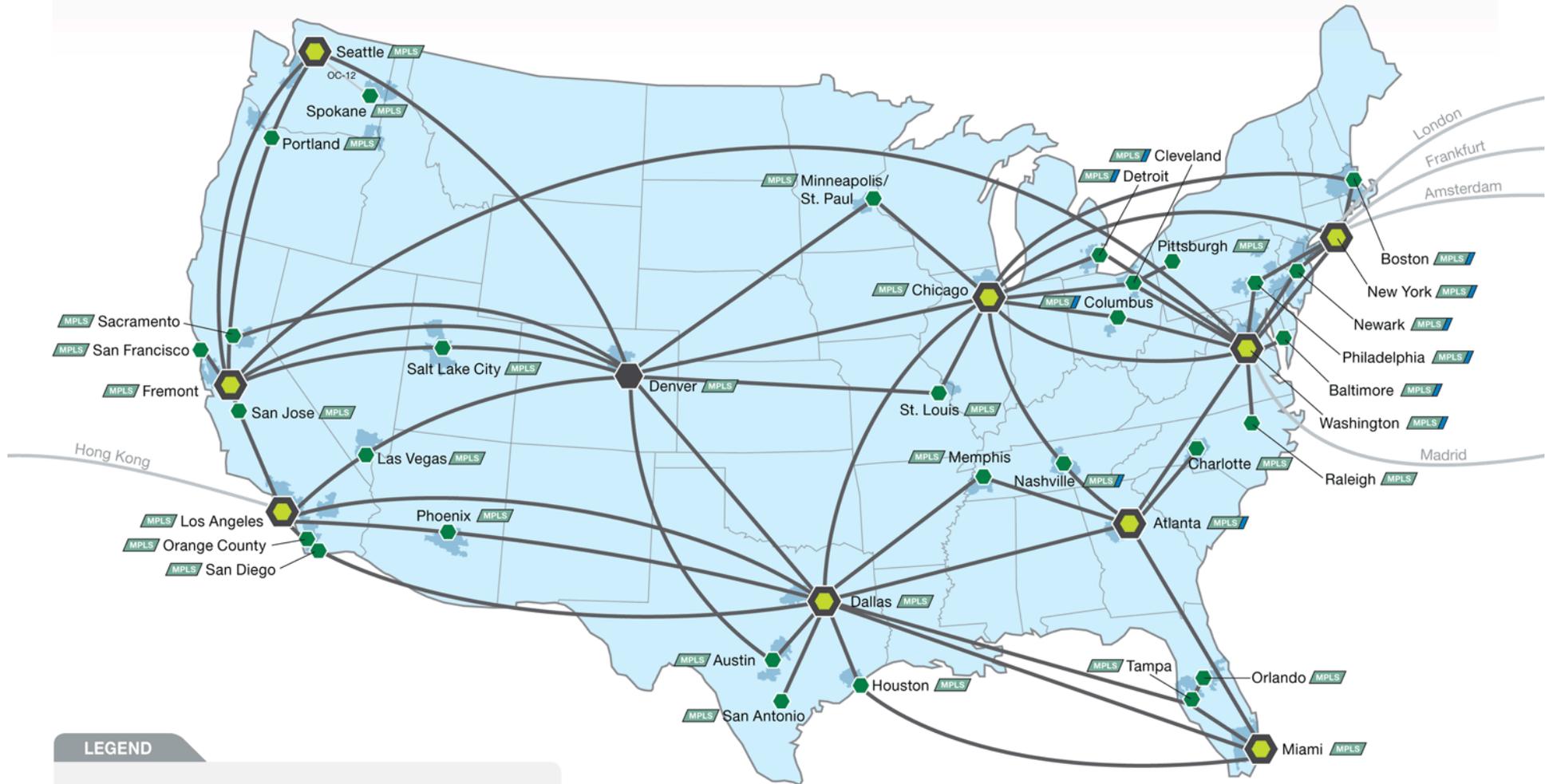
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# IP Network



**LEGEND**

Core IP Node	Nx10Gigabit Ethernet
Metro IP Node	MPLS IP-VPN PoP
Core IP Node w/ Peering	Local Voice Footprint



## Solutions Overview

Solutions > Solutions Overview

### Solutions

Solutions Overview

By Need

By Business Size

By Industry

By Category

Carrier / Wholesale



For more than ten years, XO Communications has provided advanced, telecommunications solutions built around the customers we serve. Using a unique combination of the XO high-capacity nationwide and metro networks and broadband wireless capabilities, XO provides customers in several industries with tailored solutions to help them overcome some of the biggest types of challenges they face every day.

With more than 1.1 million miles of total route fiber and 3,000+ On Net Fiber lit buildings, the XO Tier 1 network meets the demands of the most demanding customers. The very latest industry technology and advances in DWDM/optical switching drive our network and supports terabit speeds nationally.

Further XO has broadband wireless licenses covering 95% of major markets, solutions that support carrier-class service in excess of OC3 speeds with accompanying Service Level Agreements (SLAs).

XO has received more than 15 major awards for its unique solutions over the past three years—including industry recognition from Frost & Sullivan, Internet Telephony, Telephony, Information Week, Atlantic-ACM, Cisco IP, Metro Ethernet Forum, Phone +, Fierce Telecom, NxTComm, Light Reading and Telecom Association.



## Connect

Solutions > By Need > Connect

### Solutions

Solutions Overview

By Need  
Connect  
Communicate  
Manage  
Protect  
Optimize

By Business Size

By Industry

By Category

Carrier / Wholesale



### Connect Your Business with Customers at the Speeds You Need

Seamlessly connect all of your locations regardless of size or location with a broad range of cost-effective and scalable high performance data and IP networking services from XO Communications.

Whether you need high-speed Internet access, Ethernet solutions or a fully-meshed, MPLS IP network to support your mission-critical applications, XO Communications offers a broad range of flexible and scalable networking solutions. We deliver these solutions over our secure, reliable nationwide network with built-in redundancy, diversity and performance at the speeds your business needs from 3 Mbps to 10 Gbps.

#### Local, Nationwide and Global Coverage from One Provider

Regardless if your needs are across town, east coast to west coast, or across the globe, we have the network coverage to connect your business with customers and partners. With network coverage in more than 75 markets nationwide and service delivery capabilities to 23 countries on five continents, you can rely on XO Communications to connect all of your locations. We can also help you simply the management of your networks and help reduce costs by consolidating your services with one provider – XO.

#### High-Performance Network Solutions for Your Business Objectives

We offer all the high-performance network solutions your business needs in the locations where you do business, including:

- High-speed Internet access solutions to meet your connectivity requirements at speeds up to 10 Gbps
- Application-aware MPLS IP networking solutions to help you achieve the highest levels of performance for your mission-critical applications like VoIP, point-of-sale and financial transactions
- High-capacity network transport solutions to transmit large amounts of data or sensitive information at speeds up to 10 Gbps
- Ethernet solutions to hundreds of thousands of locations, so you can take advantage of the cost-effectiveness and scalability of Ethernet for Dedicated Internet Access and private MPLS IP network solutions

#### Multiple Access Options

With XO, we can connect your locations regardless of the network infrastructure at your location. We have the flexibility to deliver high-speed Internet Access, Ethernet, or MPLS-based IP network solutions directly to your locations through a number of options including:

- Fiber
- Last mile copper
- Broadband Wireless



See what services we have to connect your business

» [Dedicated Internet Access](#)

» [Private Line](#)

» [Ethernet](#)

» [Wavelength](#)

» [MPLS IP-VPN](#)

» [Collocation / Data Center](#)

» [IP Flex with VPN](#)

» [Broadband Wireless](#)

#### Related Resources

Customer Video: [Wine.com Connects with XO MPLS IP-VPN](#)

Podcast: [Extending Ethernet over the Business or Enterprise Wide Area Network](#)

Press Release: [St. Louis University Increases Network Capacity for Students, Faculty and Staff with XO Ethernet Solutions](#)

Press Release: [RideNow Powersports Turns to XO for Nationwide IP-based Networking Solution](#)

White Paper: [The Benefits of Migrating to an MPLS-based Private IP Network](#)

White Paper: [Extending Ethernet over the WAN](#)



## Services Overview

Services > Services Overview

### Services

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- VoIP Services
- Voice Services
- Network Services
- Hosted Services
- Carrier / Wholesale
- Complete List of Services



### Solutions Built Around You

Enhance the efficiency and speed of your telecommunications services with XO Communications, one of the nation's largest service providers exclusively serving businesses, enterprises, government, carriers and service providers.

Anticipating the needs of our customers to connect and communicate more efficiently with employees, customers, partners, and suppliers, XO has created a secure, private IP network from the ground up, and has invested in expanded coverage and capabilities. As a result, our award-winning nationwide network is strategically positioned to enable your next-generation requirements—and help manage, protect and optimize your networked communications. Take advantage of the strengths and extensive reach of the XO network to help make your business thrive.



### The XO Service Portfolio

Dynamic Network Services meet your needs for...

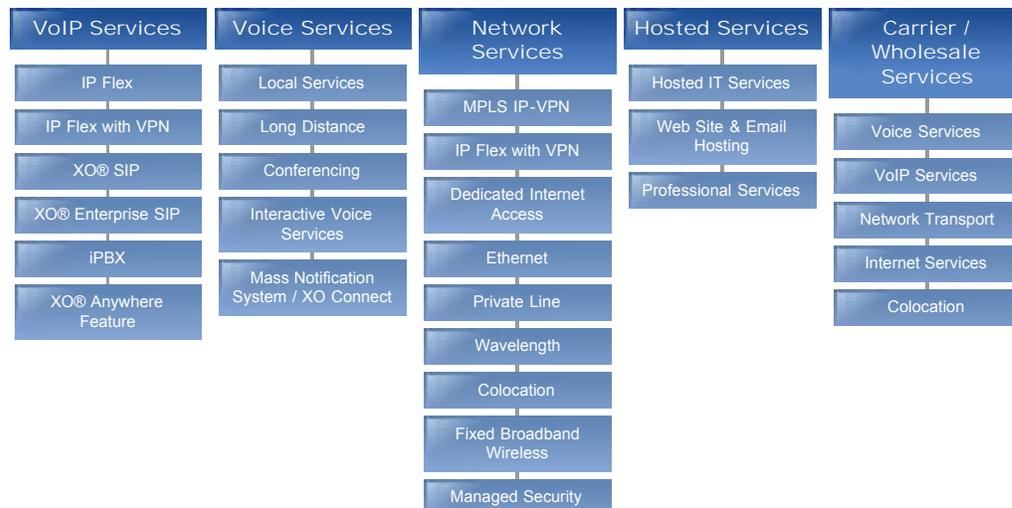
- High-performance private networks to securely connect multiple locations and support a broad range of voice, video, data and applications, while alleviating the strain on valuable IT resources
- Direct, business and carrier-grade, access to the Internet as well as customer intranet and extranet websites—with reliable, guaranteed bandwidth to meet heavy demand
- High-capacity bandwidth to store, send and receive mission-critical data and information among different locations and data centers—available in a myriad of incremental speeds through diverse access types, across town or across the country

Converged Voice over IP (VoIP) and data services combine multiple communication needs into a single-source solution to maximize value, flexibility, and productivity.

Full-service Voice features provide our customers with complete local, long-distance, toll-free and conferencing as well as value-added tools for unified communications, collaboration and more.

And a full range of Hosted IT services help businesses establish a Web presence, manage email, conduct eCommerce and online marketing, and support and secure business technology infrastructure.

Discover the comprehensive portfolio of VoIP, Voice, Network Transport, Internet and Hosted services built around you:





## Complete List of Services

[Services > Complete List of Services](#)

### Services

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### VoIP Services

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- [IP Flex with VPN](#)
- [VoIP Demo](#)
- [XO@ SIP Service](#)
  - [PBX Manufacturers](#)
- [XO@ Enterprise SIP](#)
- [iPBX](#)
- [XO@ Anywhere Feature](#)

### Voice Services

- [Local Service](#)
  - [Basic Business Lines](#)
  - [Business Trunks](#)
  - [Centrex](#)
  - [Voice Messaging](#)
  - [Integrated Services Digital Network PRI](#)
  - [Directory Assistance & Operator Services](#)
  - [Private Switch / Automatic Location Identification](#)
  - [Remote Call Forwarding](#)
  - [Foreign Exchange](#)
- [Long Distance Services](#)
- [Conferencing](#)
- [Interactive Voice Services](#)
- [Mass Notification System: XO@ Connect](#)

### Network Services

- [MPLS IP-VPN](#)
  - [Application Performance Management](#)
  - [MultiTransport Networking Service](#)
- [IP Flex with VPN](#)
- [Dedicated Internet Access](#)
- [Ethernet](#)
  - [Ethernet VPLS](#)
  - [Ethernet Private Line](#)
  - [Ethernet Hub](#)
  - [Ethernet Access](#)
- [Private Line](#)
- [Wavelength](#)
- [Colocation](#)
- [Broadband Wireless Access](#)
- [Managed Security](#)

### Internet & Hosted Services

- [Dedicated Internet Access](#)
- [Hosted IT Services](#)
  - [XO Managed Server](#)
  - [Hosted Exchange](#)
  - [XO Managed Backup](#)
  - [Perimeter Email Protection](#)
  - [Corporate Domain Manager](#)
  - [Instant Messaging for Business](#)
- [Web Site & Email Hosting](#)
  - [Standard Web Site Hosting](#)
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  - [Domain Hosting](#)
  - [Ecommerce](#)
  - [Web Basics](#)
  - [Web Applications](#)
  - [Hosting Gateway Login](#)
  - [Hosted IT Applications Resources](#)
- [Professional Services](#)
  - [Web Site Bundled](#)

### Carrier / Wholesale

- [VoIP Services](#)
  - [VoIP Origination](#)
  - [VoIP Termination](#)
- [Voice Services](#)
  - [Wholesale Local Voice](#)
  - [Carrier Long Distance Termination](#)
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  - [Carrier VPLS](#)

Services

- [Compare Bundles](#)
- [Tools and Applications](#)



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## Solutions by Business Size Overview

Solutions > By Business Size

### Solutions

- Solutions Overview
- By Need
- By Business Size
- By Industry
- By Category
- Carrier / Wholesale



Among XO customers are more than half of the Fortune 500 businesses, leading cable companies, carriers, content providers and mobile network operators. Whether you are a global communications provider, a distributed enterprise, or a growing business with one or more locations, XO offers a range of solutions to help you enhance the efficiency and speed of your telecommunications.

[Small & Medium-Sized businesses](#)

[Enterprise businesses](#)

### Small & Medium-Sized Business Solutions

#### Gain Better Control over Your Communications

Today's growing companies face unique communications challenges. You're under constant pressure to remain competitive, manage networks with limited human or capital resources, automate processes to improve workflow, and integrate communications. XO Communications is here to help...with flexible and reliable solutions that can grow and adapt with your changing business needs.

Whether you're trying to determine when to take advantage of the latest IP technologies, how to better secure your business network, or how to simplify and consolidate your networking, the right choice is XO. With XO, you have a communications provider that can manage all of your communications needs so you can focus on running your business, not your network.

From local voice and high-speed Internet access to bundled voice over IP (VoIP) and data services, XO provides end-to-end communications services and solutions to meet the needs of small companies and mid-sized businesses.

#### Small and Medium Business Portfolio

Whether you have one or many locations, let XO help your business with:

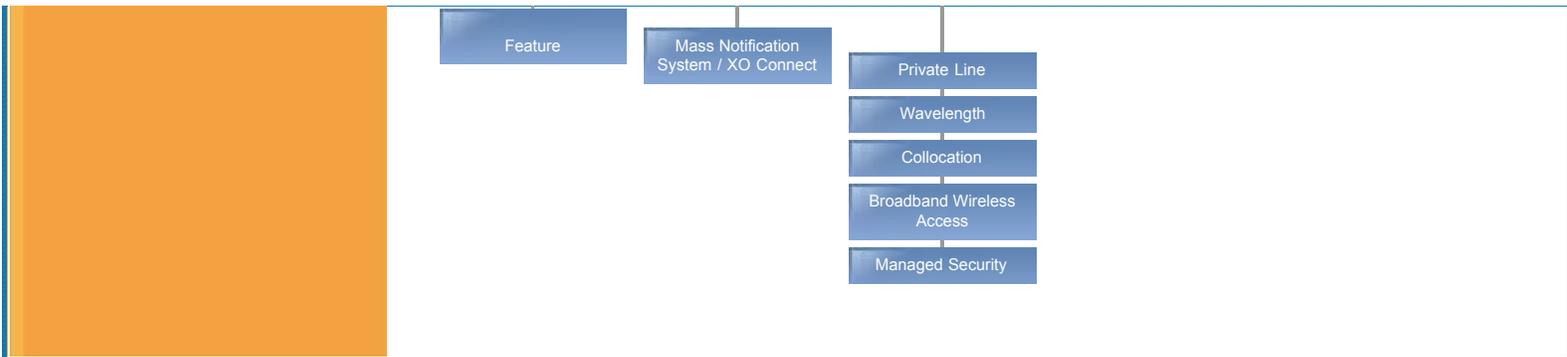
- Bundled and fully managed communications services that include unified communications, local and long distance Voice over IP, Internet access and web hosting on one invoice for a flat monthly rate;
- Secure ways to connect multiple locations and support a broad range of voice, video, data and applications with private networks such as MPLS IP VPN or the extension of Ethernet over a Wide Area Network;
- Direct, business-grade, access to the Internet, as well as to internal or external websites;
- Hosted IT services to help create, manage and optimize your business' Internet presence - from simple Web sites to complex managed server environments with hosted corporate applications;
- Interactive voice response solutions that enable you to quickly and cost-effectively respond to customer inquiries.

#### Solutions Built Around You

XO has built a state-of-the-art, sophisticated nationwide network from the ground up with the geographic reach to support the ways your business communicates, wherever you are. The XO network covers more than 75 major metropolitan markets nationwide. XO delivers those solutions over a secure, reliable nationwide network, with built-in redundancy, diversity and performance. We're in the places you need to be—so you can get more done with fewer resources, gain greater control over your communications, enrich your reputation and service with customers, and increase your productivity.

#### Explore our Services:

VoIP Services	Voice Services	Network Services	Internet & Hosted Services
IP Flex	Local Services	MPLS IP-VPN	Hosted IT Services
IP Flex with VPN	Long Distance	IP Flex with VPN	Web Site & Email Hosting
SIP Service	Conferencing	Dedicated Internet Access	Professional Services
iPBX	Interactive Voice Services	Ethernet	
XO@ Anywhere			



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Among XO customers are more than half of the Fortune 500 businesses, leading cable companies, carriers, content providers and mobile network operators. Whether you are a global communications provider, a distributed enterprise, or a growing business with one or more locations, XO offers a range of solutions to help you enhance the efficiency and speed of your telecommunications.

[Small & Medium-Sized businesses](#) [Enterprise businesses](#)

### Enterprise Business Solutions

#### Conquer Your Business Challenges

Today's enterprises require advanced, high-performance communications to solve complex business challenges. Whether you are managing explosive growth, supporting dozens or hundreds of locations nationwide or globally, protecting IT and network infrastructure, or ensuring access to information across your enterprise, XO Communications offers solutions built around your unique needs. XO delivers those solutions over a secure, reliable nationwide network, with built-in redundancy, diversity and performance.

#### Enterprise Solutions Portfolio

Through a comprehensive set of advanced IP communications and reliable network solutions and infrastructure, XO Communications enables you to meet your enterprise's challenges and operate efficiently. XO offers:

- Network transport and data center solutions to store, send and receive mission-critical data and information between locations and data centers;
- High-performance private networks to securely connect locations and support a broad range of voice, video, data and applications;
- Converged IP voice and data solutions that help reduce network costs and enable next generation networking applications, and interactive voice response solutions to quickly and cost-effectively respond to customer inquiries; and
- Network redundancy and business continuity solutions through fiber networks and broadband wireless connections.

#### Solutions Built Around You

XO has built a state-of-the-art, sophisticated nationwide network from the ground up with the geographic reach to support the ways your business communicates, wherever you are. The XO network covers more than 75 major metropolitan markets nationwide. The enterprise-class suite of XO voice, data and next generation IP services have the flexibility and performance you require—and the ability to scale with you as your organization and applications grow. What's more, XO has the local support and systems to ensure you have constant access and control over your services. Our customized communications solutions provide end-to-end reliability, support and responsiveness. We're in the places you need to be, helping meet your objectives with a network and solutions built around you.

#### Explore our Services:

VoIP Services	Voice Services	Network Services	Internet & Hosted Services
IP Flex	Local Services	MPLS IP-VPN	Hosted IT Services
IP Flex with VPN	Long Distance	IP Flex with VPN	Web Site & Email Hosting
SIP Service	Conferencing	Dedicated Internet Access	Professional Services
iPBX	Interactive Voice Services	Ethernet	
XO@ Anywhere Feature	Mass Notification System / XO Connect	Private Line	
		Wavelength	

Collocation

Broadband Wireless  
Access

Managed Security

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## Solutions by Industry Overview

Solutions > By Industry

### Solutions

Solutions Overview

By Need

By Business Size

By Industry

Healthcare

Government / Education

By Category

Carrier / Wholesale



### Count on Our Expertise

XO is a recognized and proven industry leader in IP communications, with a state-of-the-art IP network built from the ground up with your needs in mind. We offer advanced network services at speeds from T1 to 10 Gigabits nationally in 75 major metropolitan markets, with over 900 central office collocations and an 18,000 route-mile intercity network—and Solutions Built Around You.

Since we've served customers like you for many years, you can be confident in the proficiency of our teams. XO has established thought leadership and industry experience in many industries, and has a long record of understanding the problems and needs you face every day. Rest assured that we have the strategic vision and commitment to meet your requirements. Trust XO to provide your mission-critical communications.

#### Healthcare

Provides integrated solutions and network infrastructure to help you comply with increasing requirements and regulations, as you operate more efficiently

#### Government and Education

Securely and reliably connect constituents in campus environments to enhance performance, enrich experiences and enable stronger communications



## Healthcare Solutions

Solutions > By Industry > Healthcare

### Solutions

Solutions Overview

By Need

By Business Size

By Industry

Healthcare

Government / Education

By Category

Carrier / Wholesale



### Protecting the Health of Your IT Network

Today, healthcare companies and organizations need to be able to communicate accurately, cost-effectively, quickly and securely. When life-critical decisions are on the line, you need to access, deliver and exchange all types of information anywhere, anytime—from health records to test results, from bedside monitor reports to medical images, from reimbursement information to quality performance metrics and day-to-day business information and communications. In addition, healthcare companies are under pressure to operate as cost efficiently as possible while supporting the increased network traffic and demands of new applications and regulations.

#### Related Resources

[Healthcare Brochure](#)

[IASIS Customer Video](#)

[Fresenius Medical Care Case Study](#)

[Sunrise Medical Group Case Study](#)

### Healthcare Solutions Overview

XO Communications has the expertise, integrated solutions and network infrastructure that enable you to meet your organization's communications requirements and operate efficiently, including:

- Network transport and data center solutions to store, send and receive data, medical images and patient information between locations and data centers;
- High-performance private networks to securely connect locations and support a broad range of voice, video, data and information;
- Network redundancy and business continuity solutions through fiber networks and broadband wireless connections; and
- Converged IP voice and data solutions that help reduce network costs and enable next generation networking applications, and interactive voice response solutions to quickly and cost-effectively respond to patient inquiries.

### Spend More Time with the People You Serve

At XO, we help our customers in the healthcare industry find solutions to the communications challenges you face everyday—to help you improve patient care and maintain your data, transport and store large amounts of information and imaging, operate more efficiently, and prepare for emergencies. Whether you work in a hospital setting, physician's network, specialty clinic, senior care, laboratory, university research environment or biotech firm, XO provides robust communications that connect your organization, patients and partners, today and tomorrow—so you can focus more time on the people you serve.

- [Business Continuity](#)
- [Converged IP Voice and Data](#)
- [High-Performance Private Networks and Network Transport](#)
- [Interactive Voice Service](#)



## Government / Education Solutions

Solutions > By Industry > Government / Education

### Solutions

Solutions Overview

By Need

By Business Size

By Industry

Healthcare

Government / Education

By Category

Carrier / Wholesale



### Telecommunications Solutions for Government Customers

XO Communications offers local, state, and federal government agencies and educational institutions the most advanced IP and networking solutions to maximize performance and simplify management of their networks. And, when it comes to implementing high-bandwidth applications or migrating to a converged network, XO leverages its extensive nationwide and metro networks to deliver end-to-end solutions to the public sector. Our fiber assets allow for the secure transport and access of sensitive data, making XO well suited to serve the mission critical needs of agencies with many locations and concerns about disaster recovery, storage, and/or LAN extension.

### XO Government Solutions At-a-Glance

- ENCORE II XO teamed with DSA's ENCORE II Small Business Award, supporting Defense Information Technology (DISA) Defense Information Organization (DITCO) Scott Field Office award, creating a global online collaboration infrastructure contract worth \$12.2 Billion to Defense and Federal agencies
- GSA Connections Program- XO provides our federal customers with complete and integrated telecommunications solutions under the General Services Administration (GSA) Federal Technology Service's (FTS) Connections Program through teaming relationships.
- GSA IT Schedule 70- XO provides IT products and services to government customers via this Federal and State contracting vehicle, GSA IT Schedule 70
- E-RATE Program- XO participates in the E-rate program which gives non-profit private schools along with public schools and libraries discounts on telecommunications services
- The Quilt- XO selected as an authorized network services provider for The Quilt, a leading coalition of universities and other research and educational institutions across the country.

### Small Business Program

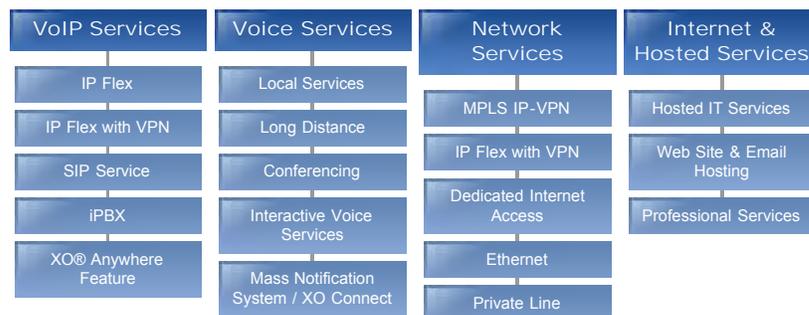
XO Communication Government Solutions actively seeks and recruits the following qualified businesses to fulfill its subcontract, procurement, teaming and support requirements concerning Federal opportunities. Each potential subcontractor and teaming partner is pre-qualified.

- Small businesses
- Disadvantaged businesses
- 8(a) businesses (under SBA regulations)
- Veteran-owned businesses
- Service disabled veteran businesses
- Woman-owned businesses
- HUBzone businesses
- Indian-owned businesses

XO Government Solutions Contact:

For information on opportunities with XO Communications Government Solutions or our Small Business Program, please contact [XOGovSolutions@xo.com](mailto:XOGovSolutions@xo.com) or phone at 703.547.2683.

### Product Portfolio



Wavelength

Collocation

Broadband Wireless  
Access

Managed Security

Learn more about the XO network with the [XO Fact Sheet](#).

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## Solutions by Category Overview

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### Solutions

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XO Communications is uniquely positioned to provide customers across all segments with a thorough communication solution that spans the continuum from simple connectivity through managed services that include life cycle optimization.

Our seasoned sales and support teams are in your markets with a singular focus on providing the best customer experience in the industry.

#### Let XO help you:

- Connect all your locations or end-users over XO high-performance nationwide network
- Communicate efficiently and cost-effectively using XO VoIP solutions
- Tap the power of Unified Communications and Collaboration tools to meet with critical partners across your ecosystem to improve productivity
- Manage your networks so you can focus on your core operations
- Protect critical information assets to safeguard against information breaches
- Optimize your networks and IT infrastructure for superior performance, user satisfaction, and on-going cost-savings.

Using the strengths of the XO Tier 1 nationwide network, the industry's latest technological innovations, and our dedicated teams of experts, XO can build solutions built around your individual needs.

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## Network Services Overview

Services > Network Services

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



### Simplify Networking, Maximize Performance

Businesses, enterprises and governments increasingly face pressures to consolidate different types of traffic on one network, accommodate huge surges in IP traffic of all types, connect more locations as a result of mergers and acquisitions, stay competitive in an exploding world of E-commerce, and reliably and securely transport sensitive information to help meet regulatory requirements. Whether you need business-grade Internet connections, high-performance private data networks, or high-capacity bandwidth to store, send and receive mission-critical data, XO has a full range of Network Services that can be tailored to your specific needs, connectivity requirements, infrastructure and applications. Maximize your performance and simplify the management of your networking through XO.

### Network Services At-a-Glance

Services	Your business needs...
<a href="#">MPLS IP VPN</a>	Gain the intelligent, fully managed Wide Area Network that brings together all types of applications or previously separate voice, video or data networks into one solution that classifies, secures and routes traffic while separating secure data from the public Internet.
<a href="#">IP Flex with VPN</a>	Integrate previously separate local, long distance, data and Internet onto one private network across multiple sites by combining the intelligence of XO MPLS IP-VPN with all the advantages of the popular XO IP Flex bundle service.
<a href="#">Applications Performance Management</a>	Gain visibility and a wealth of information to help analyze and predict the performance of different applications across the entire network. Available with XO MPLS IP-VPN and XO IP Flex with VPN services.
<a href="#">Dedicated Internet Access</a>	Benefit from dedicated connections to the Internet, intranet and extranet website applications.
<a href="#">Ethernet</a>	Gain simple, affordable, scalable, and reliable solutions for private network interconnectivity across town or across the country.
<a href="#">Private Line</a>	Take advantage of high-speed, dedicated, point-to-point connections to securely send private data between locations.
<a href="#">Wavelength</a>	Choose the reliable, high-capacity fully managed networking solution for point-to-point connections between cities or across the country.
<a href="#">Colocation</a>	Access needed bandwidth and power to support mission-critical voice, data and Internet services with separate and secured spaces built to your specifications, and with network access for your servers.
<a href="#">Broadband Wireless Access</a>	Using the XO broadband wireless capabilities, gain access to XO Dedicated Internet Access, XO Ethernet Solutions and MPLS IP-VPN services at locations that cannot be reached by fiber or copper access and establish redundancy for business continuity. Subject to availability.
<a href="#">Managed Security</a>	Protect confidential company data and customers' protected information from being compromised with solutions including premise-based Firewall, Virtual Private Network services as well as secure remote access from any public IP connection. Available with XO DIA, IP Flex, SIP or MPLS IP-VPN services.

Looking for carrier or wholesale Network Transport services? [Click Here >>](#)



## MPLS IP-VPN Overview

Services > Network Services > MPLS IP-VPN

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

Application Performance Management

MultiTransport Networking Service

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Private Line

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Managed Security

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Complete List of Services



With the emergence of converged IP services, businesses today are demanding greater performance from their networks than ever before. That's the appeal of XO MPLS IP-VPN Service. It's a network-based, MPLS-enabled Wide Area Network (WAN) solution that offers multi-site businesses more bandwidth for the dollar, faster application deployment, lower network operating costs, and more access options than traditional WAN services. Plus, XO offers competitive service Level Agreements on packet loss and jitter.

### XO® IP-VPN Benefits at a Glance

#### Secure

- Secure communications for multi-site networks, delivered over the XO private, MPLS-enabled IP backbone.
- Data is segregated from other customers, and the public internet

#### Intelligent

- Routing intelligence resides in the XO network, not in on-site customer equipment.
- Applications prioritized for Class of Service.

#### Managed

- Customized management levels to meet your specific business requirements, including options for full management and customer premise equipment (CPE).
- XO configures, deploys, and manages CPE at each of your network sites.

#### Flexible

- Scalable bandwidth options from DS1 to OC48.
- Broad range of Ethernet incremental bandwidth options, from 3 to 1,000 Mbps.

#### Cost Effective

- One network platform for all application traffic.
- Better utilization of existing bandwidth
- Run VoIP and data applications over the same circuits.
- Single flat rate\* for Class of Service, with no bandwidth or traffic mix restrictions

\* Class of Service flat rate varies by port speed.

Contact XO ▶

866-349-0134

MPLS IP-VPN  
Switch to XO & Save!

Switch your MPLS IP-VPN service to XO from another provider get one month of service free. [Find out More ▶](#)

#### Product Resources

[MPLS IP-VPN Product Sheet](#)

[Telecommunications Magazine: HOK Sport Venue Event Gets XO MPLS IP-VPN Infusion](#)

[Ultimate Electronics - MPLS IP-VPN Customer Video](#)

[Wine.com - MPLS IP-VPN Customer Video](#)

[White Paper: The Benefits of Migrating to an MPLS-based Private IP Network: It's Time](#)





## XO<sup>®</sup> MPLS IP-VPN

Tap the power of the intelligent wide area network solution

**Simplify network management, lower operating costs, and accelerate the performance of applications for end users across your wide area network.**

With the high-performance XO MPLS IP-VPN service, you can focus on business applications and spend less time managing your network.

### Benefits

- **Superior Performance:** with robust Classes of Service that prioritize network traffic according to the level of importance you assign, and outstanding Quality of Service guarantees
- **Cost-Effectiveness:** converge separate voice, video and data networks onto one application-aware IP network and maximize bandwidth utilization
- **Privacy:** completely separate your traffic from the public Internet so you confidently share files and data among multiple locations and end users
- **Extensive coverage:** connect local, national and key international locations leveraging the extensive XO network footprint
- **Management:** free up your IT resources and spend more time devoted to your core business

### Overview

For businesses with multiple locations, XO MPLS IP-VPN service is an application-aware, private wide area network solution that enables you to connect multiple locations and deliver mission-critical applications such as VoIP, business applications, and video across your enterprise with maximum performance.

XO MPLS IP-VPN helps you:

- Securely connect all of your locations onto a private network
- Lower your network operating costs by converging voice, video, and data onto a single, application-aware IP network infrastructure
- Prioritize all types of network traffic for guaranteed quality of service for low latency, low jitter and high availability
- Preserve bandwidth for critical business applications
- Simplify network management
- Enable network access for multiple types of end-users—traveling employees, telecommuters, suppliers, partners or customers
- Maximize existing infrastructure because there is no need to purchase, update or maintain expensive equipment
- Help accelerate network response times

### Extensive Coverage

XO MPLS IP-VPN is delivered using the XO Tier 1 IP MPLS nationwide network, which is designed to provide maximum coverage and scalability:

- Service in more than 75 metro markets nationwide and global service delivery to your locations in more than 23 countries across five continents
- Multiple access methods via fiber and Ethernet over copper access at speeds ranging from 1.5 Mbps to 10 Gbps
- Broad range of incremental bandwidth choices that allow you to scale more bandwidth when needed

With the industry's largest deployment of Ethernet over Copper access in more than 75 metro markets, XO Communications can affordably connect more of your locations to the private network with highly scalable and cost-effective Ethernet access. Frost & Sullivan has recognized XO Communications as the 2009 Emerging Company Award for IP-VPN services specifically because of XO Communications' strategic investment in Ethernet over Copper technology.

## Achieve Superior Performance

XO MPLS IP-VPN leverages the high-performance XO IP MPLS network to give you tremendous flexibility in maintaining superior applications performance across your enterprise wide area network (WAN).

Benefit from multiple Class of Service options at a single flat monthly rate for all four Classes:

- » Real Time
- » Critical
- » Priority
- » Standard

What's more, each class has access to all of the bandwidth available for the same price.

In addition to the Class of Service settings you specify, you can be confident of Quality of Service guarantees.

## XO Applications Performance Management

XO Applications Performance Management is a suite of analytical tools that help network administrators optimize the performance of your XO MPLS IP-VPN service with real-time visibility into every facet of your network and all of the applications that run over the network, including VoIP. XO Applications Performance Management is one of the industry's most comprehensive solutions to help you analyze and predict the performance of different applications you use every day across the enterprise.

## Bundle Services in One Networking Solution

XO MPLS IP-VPN service allows you to combine multiple services across



XO Communications

a single circuit for the greatest cost efficiency and network optimization:

- Separate different types of traffic with single or multiple departmental domains
- Combine with XO Enterprise SIP to deliver VoIP services across your wide area network, or with XO IP Flex, the award-winning VoIP services bundle that also includes Internet access and hosting services for a complete network solution that has access to all four Classes of Service at one flat rate from a single provider

## Management Options

XO Communications will custom design your network to meet specific requirements for management. Your XO MPLS IP-VPN service can be:

- Fully managed
- Co-managed
- Self-managed

Since XO MPLS IP-VPN is a network-based solution, you can simplify requirements for customer equipment and spend less time managing your network. Round-the-clock monitoring of facilities and equipment further reduces your total cost of ownership in network infrastructure.

## Industry Standards and Protocols Supported

XO MPLS IP-VPN:

- Carries all types of IP traffic
- Supports voice, video and data traffic in one solution
- Supports Point to Point Protocol (PPP) and Frame Relay
- Is a Cisco Certified Cisco TelePresence connection

## The Secure, Smart and Managed Wide Area Network Solution

Offering affordable any-to-any connectivity among locations and users, security, superior performance, scalability, management and monitoring, lower costs than traditional circuit-switched networks, and one network for all types of traffic including VoIP, XO MPLS IP-VPN is the ideal

solution for your enterprise WAN. XO MPLS IP-VPN uniquely fuses vision with technology to create the intelligent network.

## Get a Complimentary Network Analysis

Find out if XO MPLS IP-VPN is the best solution for your organization. Contact your local XO sales representative today.



Frost & Sullivan 2009  
Emerging Company of the  
Year in the MPLS  
IP VPN services category



Cisco Certified  
TelePresence  
Connection

## About XO Communications

XO Communications, a subsidiary of XO Holdings, Inc. (OTCBB: XOHO), is a leading nationwide provider of advanced communications services and solutions for businesses, enterprises, government, carriers and service providers.

XO customers include more than half of the Fortune 500, in addition to leading cable companies, carriers, content providers and mobile network operators. Utilizing its unique combination of high-capacity nationwide and metro networks and broadband wireless capabilities, XO offers customers a broad range of managed voice, data and IP services with proven performance, scalability and value in more than 75 metropolitan markets across the United States.



For more information, call your XO sales representative, visit [www.xo.com](http://www.xo.com) or call: **866.349.0134**

XOMPSO-0510



## Dedicated Internet Access Overview

Services > Network Services > Dedicated Internet Access

### Services

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Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



XO provides high speed Internet access services to businesses with dedicated Internet connection to a Tier 1 IP network backbone. As one of a few fully peered, facilities-based Tier 1 internet backbone providers in the U.S., XO delivers data to its destination securely, reliably and along the fastest route possible.

**Contact XO** ▶  
 866-349-0134

Product Resources

[DIA Data Sheet](#)

Podcast: [XO Launches 40 Gbps Network Services](#)



### Features & Benefits

- High-speed access to the Internet, intranet and extranet sites
- Guaranteed bandwidth to meet heavy data demands
- Performance of the award-winning XO multi 10 GigE Internet network backbone
- Reliability backed by industry-leading service level guarantees, including 100% availability SLA
- Network design that maximizes redundancy with no single IP point of failure
- 24x7 live support with world class customer care and continuous network monitoring
- Includes pre-configured router, DNS registration and IP number allocation
- Web Basics hosting package with email addresses, junk mail and virus filtering
- Web Basics create a web site, use email, manage DNS, or get email protection if you own your own mail server

### Optional features include:

- Expanded CPE options and managed router options
- BGP Routing Protocol: improves efficiency and quality of end user access and allows for faster, more efficient network traffic
- Network Address Translation (NAT): Allows for the conservation of scarce IP addresses. Any enterprise can connect to the XO network and communicate with others by leveraging NAT to perform the translation of the private enterprise internal network address to the publicly recognizable Internet address

Products	Customer Profile	Speed Range
T1 / DS1	T1 / DS1 Internet access services are ideal for small and medium businesses requiring reliable, high-speed Internet access with dedicated Internet connectivity.	1.544Mbps - 6 Mbps
T3 / DS3	T3 / DS3 Internet access services are ideal for businesses that require high-speed, high-capacity Internet access to support high bandwidth applications or have outgrown their T1 services.	6 Mbps - 45 Mbps
OCN	OCN Internet access services are ideal for large enterprises, ISPs and other businesses that require ultra high-speed connection to support high-volume network traffic and where Internet connectivity is critical to operations.	10 Mbps - 622 Mbps
Ethernet	Ethernet Internet access services are ideal for high-end applications, including video-conferencing, Voice Over Internet Protocol (VoIP), and Web Hosting.	1 Mbps - 40 Gig

## XO® DEDICATED INTERNET ACCESS

High-speed connectivity and reliability for Internet access, intranet and extranet applications over the XO multi-10 Gbps, Tier 1 nationwide IP network, with guaranteed bandwidth to meet heavy data demands. XO Dedicated Internet Access (DIA) provides simple, manageable and scalable high-capacity bandwidth choices, industry-level Service Level Agreements, and Web-based monitoring and reporting tools.

### A Fast, Reliable Connection to the Internet

When the Internet is fundamental to your business, you need more than high-speed Internet access. You need a reliable partner who can provide what you need today and tomorrow.

Designed specifically to meet your requirements and grow with your business, the XO advanced private network delivers the utmost in performance and robust Internet access. Through a fully peered IP network with private and public high-speed connections to the entire network, XO DIA service provides dedicated, clear-channel, point-to-point connectivity.

As one of only a few fully peered, facilities-based Tier 1 Internet backbone providers in the United States, XO has hundreds of private peering arrangements in most metropolitan areas. By routing around congested public peering points, these private peering relationships with virtually all major Internet providers give you reliable connectivity and the best possible speed and throughput. What's more, the nationwide IP network design maximizes redundancy with no single IP point of failure. That's how XO delivers your data to its destination securely, reliably, and quickly.

XO DIA service is backed by industry-leading Service Level guarantees, including 100% availability Service Level Agreements on all DIA lines.

### With DIA solutions, you can:

- Control costs by choosing exactly what you need from a wide range of access types and speeds
- Optimize your resources by monitoring your bandwidth capacity with Web-based monitoring and reporting tools
- Scale bandwidth as your business grows
- Increase productivity with a connection that quickly transfers large data and multimedia files between networks

**Robust Features:** XO Dedicated Internet Access includes comprehensive standard features, including:

- A broad range of access types and speeds—from 1.5 Mbps to 10 Gbps
- A managed router with preconfigured Customer Premise Equipment (CPE), installed by XO with ongoing maintenance and management
- IP address allocations at no cost
- Primary and secondary DNS registration
- Web and email hosting services
- Single bill
- Customer support and proactive network monitoring, 24 hours a day, seven days a week

**Optional Features:** You can select expanded CPE and managed router options, including:

- *Border Gateway Protocol (BGP4) routing protocol*—for managing multiple high-speed DIA connections to the Internet
- *Network Access Translation (NAT)*—to allow conservation of scarce IP addresses

### Contact XO®

For more information, call your XO sales representative today.



## Comprehensive Suite of DIA Solutions

XO has the high-speed DIA solution to meet the needs of your growing business. We will help you choose exactly what you need from a range of access types, speeds and billing options.

XO DIA Port Plans	For	Description	Speed Range
T1/DS1	Small and Medium Businesses requiring reliable, high-speed Internet access with dedicated Internet connectivity	<ul style="list-style-type: none"> <li>• Full T1 of bandwidth over a dedicated, non-fractional leased line, or Multiple T1 for companies that have outgrown their T1 needs but cannot justify the cost of a DS3</li> <li>• Includes a free, highly reliable router</li> <li>• NAT and BGP4 options available</li> <li>• Flat-rate billing</li> </ul>	1.544 Mbps to 6 Mbps
T3/DS3	Businesses that require high-speed, high-capacity Internet access to support high bandwidth applications or have outgrown their T1 services.	<ul style="list-style-type: none"> <li>• Available in full port and commit/burstable pricing options</li> <li>• Delivers predetermined level of bandwidth over a dedicated, non-fractional leased line</li> <li>• Option to rent a BGP4-enabled Cisco<sup>®</sup> T3 router</li> <li>• Flat-rate billing based on selected bandwidth speed</li> </ul>	6 Mbps to 45 Mbps
OC3 and OC12	Large enterprises, ISPs and other businesses that require ultra high-speed connections to support high-volume network traffic and where Internet connectivity is critical to operations	<ul style="list-style-type: none"> <li>• Available in full port and commit/burstable pricing options</li> </ul>	10 Mbps to 622 Mbps
Ethernet	For high-end applications including video-conferencing, VoIP and web hosting.	<ul style="list-style-type: none"> <li>• Available via Ethernet over Copper or Broadband Wireless access types, subject to availability</li> <li>• Available in full port capacity, with no oversubscription of bandwidth from the port to the backbone network</li> <li>• Higher speeds require collocation</li> </ul>	1 Mbps to 10 Gbps

## Service Level Agreements

- Network Availability: 100%
- Latency: 65ms round trip
- Packet Loss: <1%
- Jitter: <1%





## Ethernet Services Overview

Services > Network Services > Ethernet Services

### Services

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### Simplify and Extend Your Network

XO Ethernet Services provide simple, cost-effective ways to connect your business locations and deliver applications, data and information to flow seamlessly over your Local Area (LAN) and Wide Area Networks (WAN) with the performance and reliability your business requires.

#### Full Range of Bandwidth & Access Options to Reach More Locations

With one of the largest Ethernet footprints in the U.S., XO Communications makes it easy and cost-effective to:

- converge your LAN and WAN over a single Ethernet network
- transport large volumes of sensitive data between locations
- deliver services such as Internet Access, VoIP or other managed applications.

Whether your business requires high-speed access for branch offices or high-bandwidth connections to data centers at speeds up to 10 Gbps, XO Communications can tailor an Ethernet solution for your business. [Contact XO to discuss Ethernet service options for your business.](#)

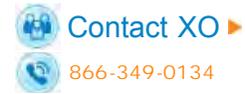
#### XO Ethernet Services are:

- **Cost-Effective** - since there's no need to invest in different network equipment to support new applications
- **Flexible** - wide range of configuration options to meet your unique needs
- **Scalable** - increase bandwidth as your needs increase without deploying new or costly equipment
- **Simple** - extend Ethernet and applications over one network from your LAN across your WAN

[XO Ethernet Services](#)

[Bandwidth and Delivery Options](#)

- Bandwidth options ranging from 1Mbps to 10 Gbps
- Fiber, Ethernet over Copper/Serial and Broadband Wireless Access XO offers more nationwide Ethernet over Copper access than most other service providers
- [Download Ethernet Services Overview](#) to see additional features



#### Related Resources

Service Overview:  
[XO® Ethernet Services](#)

Industry Leadership and Recognition:

- [XO Communications Recognized by Frost & Sullivan as an Emerging Company of the Year](#)
- [XO Enhances Ethernet Portfolio](#)
- [Vertical Systems Ethernet Leaderboard, 2010](#)
- Finalist, [Metro Ethernet Forum Carrier Ethernet Service Provider of the Year, 2007](#)
- [Light Reading](#), Finalist for North American Ethernet Service Provider of the Year for Innovation, 2007

Podcast:  
[Extending Ethernet Over the Business or Enterprise Wide Area Network](#)

## XO<sup>®</sup> ETHERNET SOLUTIONS

When your organization relies on data, or the Internet, to deliver intensive applications, Ethernet provides the simplest and most cost effective way for your information to flow seamlessly throughout the network. Use Ethernet to extend your Local Area Network or extend your Wide Area Network to your locations within and between cities, or across the country.

At XO Communications, we combine our unique nationwide reach and multiple access capabilities to offer businesses easy-to-use, affordable and flexible Internet connectivity. To extend your applications and transfer data among locations, buy the guaranteed bandwidth options you need—ranging from 10Mbps through 10Gbps.\* Plus, gain the flexibility to upgrade bandwidth options quickly as you grow. All so you can save money, simplify your network, and improve productivity.



Winner, NXTComm Eos  
Excellence of Achievement  
Award for Best Backbone/  
Core Network, 2007



### With XO Ethernet Solutions, you:

Access the preferred, standards-based Ethernet protocol—to operate your data applications

- *Increase your productivity*—with the capability of transferring large data files at consistent speeds on a single network
- *Save money*—because XO typically provides more bandwidth at a lower cost per megabit than traditional private line services
- *Simplify your network management*—because Ethernet is easy to install, upgrade, and maintain
- *Scale bandwidth speed as you need it*—to keep pace with the demands of your growing business, since Ethernet is more scalable than traditional Time Division Multiplex (TDM) services
- *Boost the efficiency and performance of your network and applications*—because you no longer need to convert data to other formats such as Frame Relay or Asynchronous Transfer Mode (ATM) to transport it, and then convert it back to Ethernet for the “last mile” connection
- *Ensure optimum speed performance when sending data between locations*—because your data travels at consistent Local Area Network (LAN) speeds over guaranteed
  - bandwidth from dedicated full port to dedicated full port
  - across the entire network

\* Not all connection types and speeds are available at all locations. Ask your XO sales representative to qualify your locations for Ethernet connectivity.

\*\* Available through Copper and Broadband Wireless access.

### XO Ethernet Solutions:

- *Reduce the costs and responsibility of buying, configuring, and managing additional equipment*—since XO handles all ongoing configuration and network management of the Ethernet transport
- *Support converged applications*—like Internet Protocol (IP) and IP-Virtual Private Network (IP-VPN) services
- *Enable faster, easier network upgrades*—than you would
  - with other high bandwidth transport solutions such as T1, T3, Frame Relay or ATM
- *Enhance the image of your organization among your target audiences*—because you can rely on high performing XO Service Level Agreements (SLAs) to help you avoid network interruptions
- *Fulfill Network Redundancy and Diversity Requirements*—to comply with network redundancy and diversity requirements including government Continuity of Operations (COOP) mandates
- *Rely on 24x7 customer service and proactive network monitoring*—so you no longer need a large technical support staff to realize the benefits of broadband LAN interconnection
- *Simplify your networking administration*—by gaining everything on one invoice, through one provider

### More Benefits

- Scalable solution that keeps pace with the needs of growing businesses
- Optional unprotected Single Fiber, point-to-point service available \*\*
- Use to transport High Speed Dedicated Internet Access or XO Multi-transport Networking Service (MTNS) or IP-VPN Layer 3
- XO-managed services
- Eliminate the need for customer-owned Customer Premise Equipment (CPE)—unless requested by customer
- Demarcation: customer-facing port on the XO-transport Customer Premises Equipment (CPE)
- Ideal for businesses who require redundant and diverse connectivity options to comply with disaster recovery or business continuity plans
- Select point-to-point (E-Line), any-to-any (fully meshed E-LAN), or one to any (hub/spoke configuration)
- Layer 2, customer-managed services—to connect your networks in one or more Metro areas together
- Support standard IEEE 802.3-compliant LAN protocol interfaces
- Protected SONET or Wavelength Division Multiplexing (WDM) service \*\*

\* Not all service types available with Ethernet transport in all locations.

\*\* Fiber access only.

### Connectivity

- *Fiber*—10 mbps, 100 mbps, 1000 mbps (GigE) and 10Gbps
  - **NEW!** 20 mbps, 30 mbps, 40 mbps, 50 mbps, 60 mbps, 70 mbps 200 mbps, 300 mbps, 400 mbps, and 500 mbps available in 9 cities
- *Copper loops or trunks*—10 mbps copper or DS-1; 44 mbps, 88 mbps, and 100 mbps DS-3 options
  - **NEW!** 15 mbps and 20 mbps available in 9 cities
- Broadband wireless—10 mbps, 100 mbps Ethernet

### Service Level Agreements

- *Fiber*—99.999% protected; 99.99% unprotected; latency < 2 ms; guaranteed bandwidth: port-to-port, full duplex port speeds at Layer 2
- *Copper loops or trunks*—99.99%; latency < 2 ms; guaranteed bandwidth: port-to-port, full duplex port speeds at Layer 2
- *Broadband wireless*—99.99%; latency < 2 ms; guaranteed bandwidth, port-to-port, full duplex port speeds at Layer 2

### Contact XO<sup>®</sup>

For more information, contact your XO Sales Representative today.





## Ethernet VPLS

Services > Network Services > Ethernet Services > Ethernet VPLS

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Complete List of Services



### Extend Your Ethernet LAN Across a Wide Area Network

XO Ethernet VPLS allows you to extend your Ethernet LAN across your Wide Area Network (WAN) and combine it into a single network that gives you the:

- Privacy of ATM/Frame Relay or Private Line
- Performance and resiliency of MPLS IP-VPN
- Affordability, simplicity, and scalability of Ethernet.

Ethernet VPLS is a Layer 2 Virtual Private Network (VPN) providing any-to-any connectivity. It is ideal for multi-location businesses with the following needs:

- Connect data centers/Storage Area Networks, contact or media centers
- Support special applications like VoIP or video
- Transport IP and non-IP applications over the same network
- Maintain separate network domains as if they were on the same Ethernet LAN regardless of locations

#### Ethernet VPLS Key Advantages:

- Maintain network control--you do not need to share address and routing information with the service provider
- Privately transport both IP and non-IP traffic
- Obtain the highest levels of network performance, cost efficiency and scalability with competitive SLAs/Class of Service Options.

**Contact XO** ▶  
 866-349-0134

#### Related Resources

Podcast:  
[VPLS: How does it compare to MPLS and where does it fit in an enterprise WAN?](#)

Service Overview:  
[XO® Ethernet VPLS](#)

### XO Ethernet VPLS



**Broadest Nationwide Availability**

**Bandwidth and Delivery Options**

With one of the largest Ethernet footprints in the U.S., XO Communications delivers Ethernet VPLS to more than 75 major metro areas over the XO nationwide MPLS network, which uses the industry's most advanced technology.

[Download Ethernet VPLS Service Overview](#) to see additional features.



## XO<sup>®</sup> ETHERNET VPLS

Extend your Ethernet LAN across a Wide Area Network that's delivered over the award-winning, advanced XO nationwide network. XO<sup>®</sup> Ethernet VPLS combines the privacy of Private Line services, the performance and resiliency of MPLS IP-VPN, and the affordability, simplicity, and flexibility of Ethernet into a single solution. The Layer 2 network service has the same familiarity as the local Ethernet network you use every day and can carry all of your IP and non-IP traffic. You maintain complete control over network routing and management and benefit from the highest levels of network performance, cost efficiency and scalability. XO Communications delivers Ethernet VPLS to more locations nationwide than other service providers, using the award-winning XO nationwide network.

### Benefits

- **Privacy and Control**—Layer 2 security gives you total control over packet addressing and routing
- **Performance**—optimizes and accelerates your applications using dedicated connections with robust Classes of Service
- **Flexibility**—carries IP and non IP-based traffic over the same network, provides diversity, and easily accommodates your needs for additional bandwidth by location or application
- **Simplicity and Savings**—with native Ethernet throughout the network that's less expensive for you to administer and maintain

### Take advantage of the high-speed connectivity, flexibility and affordability of an Ethernet VPLS to:

- Connect data centers or Storage Area Networks, contact centers or media centers
- Support special applications like VoIP or video multicasting with four Class of Service options
- Transport non IP and IP traffic over the same network
- Maintain separate networking domains as if they were on the same LAN regardless of their locations
- Interconnect with other networking services such as MPLS-based VPNs or Internet Access.

### Broad Nationwide Coverage

With one of the broadest Ethernet footprints in the United States and multiple types of access, XO Communications can deliver Ethernet VPLS to more of your locations than many other service providers:

- Extensive Nationwide Inter-City and Metro Fiber Networks covering more than 75 major metropolitan markets
- Industry-Leading Nationwide Deployment of Ethernet over Copper Technology in 75 major metropolitan markets to reach locations served by last mile copper

- Extensive Nationwide Broadband Wireless Access Capabilities covering 80 metro markets to serve locations without direct fiber access

### Multiple Bandwidth and Access Options

Select from multiple access types:

- Ethernet over Fiber from 10 Mbps to 1 Gbps
- Ethernet over Copper access from 3 Mbps through 20 Mbps
- Broadband Wireless access in speeds ranging from 10 Mbps to 1 Gbps
- Scalable bandwidth options allow you to increase bandwidth as needed

### Service Types

XO Communications can configure your Ethernet VPLS architecture in any number of ways to extend your native Ethernet LAN across a metro or wide geographic area:

- Point-to-point
- Point-to-multipoint
- Multipoint-to-multipoint (any-to-any/fully meshed)

## Robust Classes of Service

With XO Communications, you benefit from all four Classes of Service:

- Real Time
- Critical
- Priority
- Standard

You get access to all Classes of Service for one flat rate, and each class can access up to the full amount of bandwidth available when necessary, in order of priority.

## Bundle Services in A Single Network

XO Ethernet VPLS allows you to combine multiple services across a single Ethernet circuit for better cost efficiency and network optimization:

- Use single or multiple Ethernet VPNs in one network to distinguish different domains or separate types of traffic
- Combine with MPLS IP-VPN and Dedicated Internet Access for a complete network solution with all Class of Service Options from a single provider

## Industry Standards and Protocols Supported

XO Ethernet VPLS has the advantage of being completely protocol-agnostic:

- Carries both IP and non-IP traffic
- Provides VLAN transparency
- Enables native Ethernet multicasting

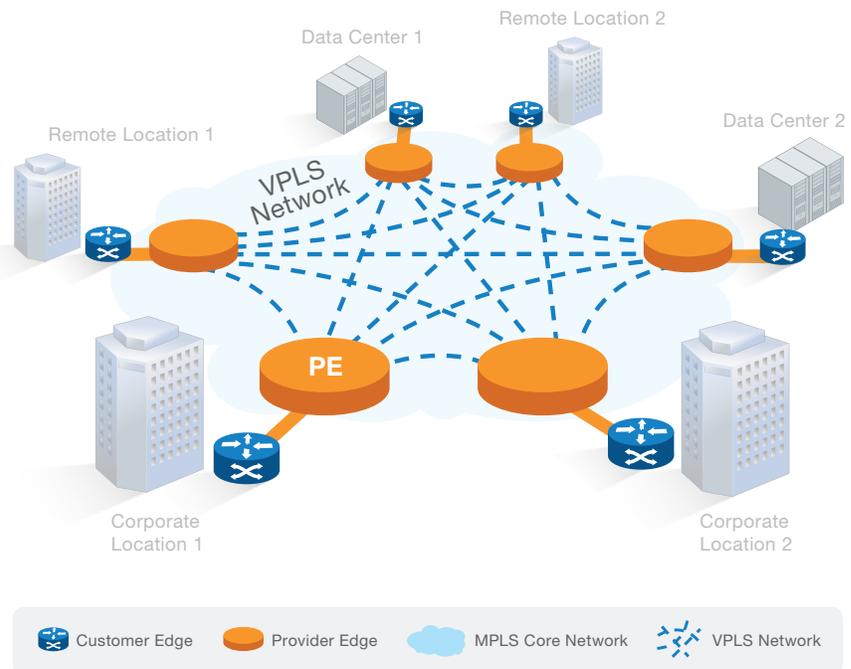
The solution also supports many industry standards:

- Metro Ethernet Forum E-LAN design
- IEEE 802.1ag Ethernet Operations, Administration and Management (OAM) standards
- Uses RFC 4761 and 4762 protocols



XO Communications

# XO Ethernet VPLS



## Equipment Options

For XO Ethernet VPLS, you may choose from several equipment options:

- Use your own Customer Premise Equipment
- Lease or Buy CPE from XO

## Gain Simplicity and Savings

Ultimately, Ethernet VPLS provides you with a high-speed, extremely reliable and secure network with all the cost effectiveness and flexibility of an easy-to-manage Ethernet environment:

- Costs less per megabit than other technologies
- Decreases your network management costs because it's less expensive to administer, operate and manage
- Lowers Your Total Cost of Ownership—since there's no need for special routing protocols, conversions equipment or IT staff training
- Extends your Local Area Network environment to a Metro or Wide Area Network—and allows your sensitive, critical applications to flow seamlessly across the entire network.

## About XO Communications

XO Communications, a subsidiary of XO Holdings, Inc. (OTCBB: XOHO), is a leading nationwide provider of advanced communications services and solutions for businesses, enterprises, government, carriers and service providers.

XO customers include more than half of the Fortune 500, in addition to leading cable companies, carriers, content providers and mobile network operators. Utilizing its unique combination of high-capacity nationwide and metro networks and broadband wireless capabilities, XO offers customers a broad range of managed voice, data and IP services with proven performance, scalability and value in more than 75 metropolitan markets across the United States.



For more information, call your XO sales representative, visit [www.xo.com](http://www.xo.com) or call: 866.349.0134

XOSOVP-0610



## Ethernet Private Line

Services > Network Services > Ethernet Services > Ethernet Private Line

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Ethernet VPLS

Ethernet Private Line

Ethernet Hub

Ethernet Access

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



### Securely Transfer Data Between Locations

XO Ethernet Private Line allows businesses to instantly and privately transmit sensitive, mission-critical data between locations at speeds up to 10 Gbps.

High-speed, dedicated point-to-point connectivity is ideal for applications such as:

- Remote Backup
- Storage Area Networking
- High-capacity and redundant data center connectivity

#### Benefits of XO Ethernet Private Line include:

- Privacy for sensitive data - on a dedicated, high-capacity, point-to-point connection at native Ethernet speeds
- High performance - high-capacity guaranteed availability, bandwidth, competitive SLAs and continuous network monitoring
- Savings on capital and overhead expenses - avoiding the local loop deploys your solution quickly

#### Extensive Coverage for Multi-location Businesses

XO delivers Ethernet Private Line over its own advanced inter-city and metro transport networks and to international locations, so that you can connect more sites using a single provider:

- Broad nationwide reach to more than 75 markets
- Dense metro coverage with more than 1 million fiber miles
- Global service delivery to more than 23 countries on five continents

#### Bandwidth and Delivery Options

- Bandwidth options ranging from 1Mbps to 10 Gbps
- Guaranteed delivery over dedicated bandwidth

[Download Ethernet Private Line Service Overview](#) to see additional features.



Contact XO ▶

866-349-0134

## XO<sup>®</sup> ETHERNET SOLUTIONS

When your organization relies on data, or the Internet, to deliver intensive applications, Ethernet provides the simplest and most cost effective way for your information to flow seamlessly throughout the network. Use Ethernet to extend your Local Area Network or extend your Wide Area Network to your locations within and between cities, or across the country.

At XO Communications, we combine our unique nationwide reach and multiple access capabilities to offer businesses easy-to-use, affordable and flexible Internet connectivity. To extend your applications and transfer data among locations, buy the guaranteed bandwidth options you need—ranging from 10Mbps through 10Gbps.\* Plus, gain the flexibility to upgrade bandwidth options quickly as you grow. All so you can save money, simplify your network, and improve productivity.



Winner, NXTComm Eos  
Excellence of Achievement  
Award for Best Backbone/  
Core Network, 2007



### With XO Ethernet Solutions, you:

Access the preferred, standards-based Ethernet protocol—to operate your data applications

- *Increase your productivity*—with the capability of transferring large data files at consistent speeds on a single network
- *Save money*—because XO typically provides more bandwidth at a lower cost per megabit than traditional private line services
- *Simplify your network management*—because Ethernet is easy to install, upgrade, and maintain
- *Scale bandwidth speed as you need it*—to keep pace with the demands of your growing business, since Ethernet is more scalable than traditional Time Division Multiplex (TDM) services
- *Boost the efficiency and performance of your network and applications*—because you no longer need to convert data to other formats such as Frame Relay or Asynchronous Transfer Mode (ATM) to transport it, and then convert it back to Ethernet for the “last mile” connection
- *Ensure optimum speed performance when sending data between locations*—because your data travels at consistent Local Area Network (LAN) speeds over guaranteed
  - bandwidth from dedicated full port to dedicated full port
  - across the entire network

\* Not all connection types and speeds are available at all locations. Ask your XO sales representative to qualify your locations for Ethernet connectivity.

\*\* Available through Copper and Broadband Wireless access.

### XO Ethernet Solutions:

- *Reduce the costs and responsibility of buying, configuring, and managing additional equipment*—since XO handles all ongoing configuration and network management of the Ethernet transport
- *Support converged applications*—like Internet Protocol (IP) and IP-Virtual Private Network (IP-VPN) services
- *Enable faster, easier network upgrades*—than you would
  - with other high bandwidth transport solutions such as T1, T3, Frame Relay or ATM
- *Enhance the image of your organization among your target audiences*—because you can rely on high performing XO Service Level Agreements (SLAs) to help you avoid network interruptions
- *Fulfill Network Redundancy and Diversity Requirements*—to comply with network redundancy and diversity requirements including government Continuity of Operations (COOP) mandates
- *Rely on 24x7 customer service and proactive network monitoring*—so you no longer need a large technical support staff to realize the benefits of broadband LAN interconnection
- *Simplify your networking administration*—by gaining everything on one invoice, through one provider

### More Benefits

- Scalable solution that keeps pace with the needs of growing businesses
- Optional unprotected Single Fiber, point-to-point service available \*\*
- Use to transport High Speed Dedicated Internet Access or XO Multi-transport Networking Service (MTNS) or IP-VPN Layer 3
- XO-managed services
- Eliminate the need for customer-owned Customer Premise Equipment (CPE)—unless requested by customer
- Demarcation: customer-facing port on the XO-transport Customer Premises Equipment (CPE)
- Ideal for businesses who require redundant and diverse connectivity options to comply with disaster recovery or business continuity plans
- Select point-to-point (E-Line), any-to-any (fully meshed E-LAN), or one to any (hub/spoke configuration)
- Layer 2, customer-managed services—to connect your networks in one or more Metro areas together
- Support standard IEEE 802.3-compliant LAN protocol interfaces
- Protected SONET or Wavelength Division Multiplexing (WDM) service \*\*

\* Not all service types available with Ethernet transport in all locations.

\*\* Fiber access only.

### Connectivity

- *Fiber*—10 mbps, 100 mbps, 1000 mbps (GigE) and 10Gbps
  - **NEW!** 20 mbps, 30 mbps, 40 mbps, 50 mbps, 60 mbps, 70 mbps 200 mbps, 300 mbps, 400 mbps, and 500 mbps available in 9 cities
- *Copper loops or trunks*—10 mbps copper or DS-1; 44 mbps, 88 mbps, and 100 mbps DS-3 options
  - **NEW!** 15 mbps and 20 mbps available in 9 cities
- Broadband wireless—10 mbps, 100 mbps Ethernet

### Service Level Agreements

- *Fiber*—99.999% protected; 99.99% unprotected; latency < 2 ms; guaranteed bandwidth: port-to-port, full duplex port speeds at Layer 2
- *Copper loops or trunks*—99.99%; latency < 2 ms; guaranteed bandwidth: port-to-port, full duplex port speeds at Layer 2
- *Broadband wireless*—99.99%; latency < 2 ms; guaranteed bandwidth, port-to-port, full duplex port speeds at Layer 2

### Contact XO<sup>®</sup>

For more information, contact your XO Sales Representative today.



## Ethernet Hub

Services > Network Services > Ethernet Services > Ethernet Hub

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Ethernet VPLS

Ethernet Private Line

Ethernet Hub

Ethernet Access

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



### Save, Simplify and Scale Using Point-to-Multipoint Ethernet

XO Ethernet Hub helps multi-location enterprises simplify and consolidate network management. Connect your primary data center or headquarters to the XO network and extend Ethernet connectivity to branch locations without having to manage connections to every location.

#### Point-toMultipoint Ethernet allows you to:

- Simplify with a single interconnection - a 1 Gbps Hub aggregates all data traffic on a single network to and from smaller locations and one central location or data center
- Virtually connect branch sites - with access to the entire XO nationwide Ethernet footprint
- Lower networking costs - a single handoff reduces equipment and management costs
- Experience reliable connectivity - dedicated bandwidth traffic travels in real-time just as it would on a traditional private line
- Maintain separation of traffic - when you converge previously separate domains for specific applications or departments onto a single network

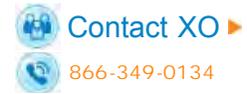
#### Extensive Coverage for Multi-location Businesses

With one of the largest Ethernet footprints in the U.S., XO can connect your locations nationwide through bandwidth options ranging from 5 Mbps to 1 Gbps.

#### Additional Features

- Ethernet Virtual Private Line (EVPL), hub-and-spoke, point-to-multipoint configuration
- Layer 2 security
- Real-time Ethernet support with 100% delivery guaranteed
  - Supports Jumbo Frame data packet transfer rates—with payload in excess of 9,000 byte jumbo frame sizes
  - Supports VLAN tagging standards (IEEE 802.1Q)
- 24-hour network monitoring and maintenance

[Download Ethernet Hub overview](#) to see additional features.



#### Related Resources

Service Overview:  
[XO® Ethernet Hub Overview](#)

Podcast:  
[Extending Ethernet Over the Business or Enterprise Wide Area Network](#)

## XO<sup>®</sup> ETHERNET HUB

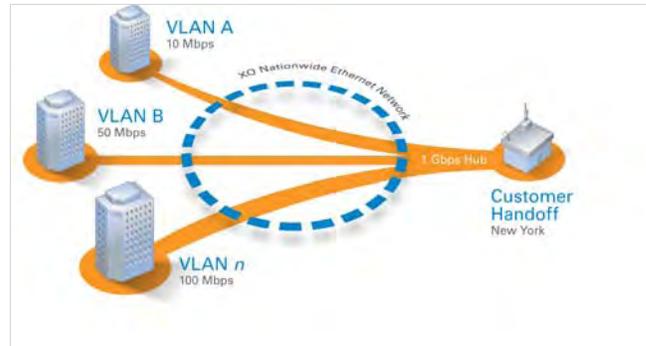
XO Ethernet Hub is an Ethernet Virtual Private Line (EVPL) service that combines the efficiencies of Ethernet with the resiliency and performance of business-grade, Layer 2, point-to-multipoint networking. This solution is ideal for healthcare, financial services or other enterprises with widely distributed branch offices—that want to simplify the management of data traffic to and from smaller locations and one central location or data center. The service allows these enterprises to simplify network management by only having to manage one connection between the XO network and their primary data center or corporate headquarters and branch locations, while maintaining separation of distinct types of traffic over one network.

### A Single Interconnection

XO Ethernet Hub provides a simple, scalable and cost-effective way to connect separate Virtual Local Area Networks (VLANs) without having to deal with multiple connections to each of their local, branch locations. Customers only need to manage a single Hub interconnection for data traffic distributed across the entire enterprise.

XO has answered the call for reliable, widely available Ethernet connectivity by building a nationwide, next generation network that is capable of providing Ethernet connections to many metro markets and nearly 4 million buildings. With a 1 Gig, dedicated “Hub” connection, you gain access to this entire XO nationwide Ethernet footprint. Your Ethernet Hub service then fans out to lower-bandwidth, Ethernet end link connections to sites across the country. Each remote site connects directly to the Hub, and all end links have dedicated bandwidth at speeds ranging in Ethernet incremental bandwidth options from 5 Mbps to 500 Mbps.

Dedicated bandwidth is a key advantage. Since the Ethernet Hub is never oversubscribed with traffic, and each end link is connected only with the Hub, XO provides a highly reliable and manageable solution at lower costs than traditional private line alternatives. Dedicated bandwidth also means that traffic travels in real-time, just as it would on a traditional private line. Moreover, since XO was an early pioneer in creating scalable Ethernet over Copper solutions, XO offers a full range of incremental bandwidth options on Ethernet Hub end links to locations that other carriers don't often support. Today, XO is the only provider making use of Ethernet over Copper access as part of a Hub service on a nationwide basis.



*Hub and Spoke, Point-to-Multipoint Configuration*

### More Benefits

- **Accelerate changing service delivery requirements**
  - Scalable, dedicated bandwidth options
  - Honors the Class of Service treatment you assign
  - Maintains privacy of your data
- **Simplify network management**—using Ethernet technology, and end link aggregation for a single handoff
- **Reduce operational expenses**—with lower costs, and the value-added benefits of improved productivity and competitiveness
- **Maintain separation of traffic**—converge distinct traffic types like VoIP, or departments like Finance or Operations from different VLANs onto a single network and still keep the traffic separated
- **Wide Nationwide coverage**—so you can connect all sites to the Hub
- **24-hour network monitoring and maintenance**

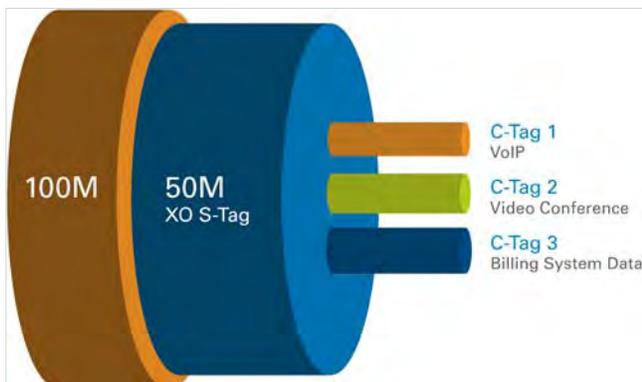
### Simplify Networking

Ethernet is widely accepted and understood, so it works well as an end-to-end networking technology. Extending Ethernet LANs to the Wide Area Network eliminates the need to convert data to other formats to transport it, and then convert it back to Ethernet—conversions that could decrease efficiency and performance.

### Support for Key Ethernet Features

XO Ethernet Hub supports popular Ethernet features in real time, with 100% delivery guaranteed:

- **IEEE VLAN tagging standards (802.1Q)** used to identify how data should be separated and distributed by group, project teams or applications.



VLAN tags distinguish traffic types like VoIP, or departments like Finance or Operations. Through XO Ethernet Hub service, you can converge these traffic types onto a single network and still keep them separated. To ensure that the network is completely available for all end users at any given time, XO supports VLAN Tag Stacking. As tags enter the XO network, XO stacks its own supplier tag on top of each Customer tag within the Ethernet frame. This tag stacking directs the data by the outer S-tags, enabling the traffic to be preserved and transported through the network in real-time. VLAN Tag Stacking ensures that C-tags from unrelated VLANs don't conflict and limits the quantity of VLANs being consumed within the network.

### Support for Jumbo Frame data transfer rates

- XO Ethernet Hub service can support transfer rates with payloads in excess of 9,000 byte jumbo frame sizes. Jumbo frames are determined by access and equipment types.

### Savings, Simplicity and Scalability

With XO Ethernet Hub service, you can save money, simplify your network management, protect the separation and privacy of your traffic, and increase productivity.

Moreover, you gain unmatched value from the combination of XO Ethernet Hub service and access to the entire XO nationwide network that reaches more than 4 million buildings across the country. This means that XO has greater coverage than most carriers for Ethernet Hub configurations—plus, the savings, simplicity and scalability that your enterprise requires.

### Call XO Today

Call your local XO Sales Account Representative today.



## Ethernet Access

Services > Network Services > Ethernet Services > Ethernet Access

### Services

[Services Overview](#)

[VoIP Services](#)

[Voice Services](#)

[Network Services](#)

[MPLS IP-VPN](#)

[IP Flex with VPN](#)

[Dedicated Internet Access](#)

[Ethernet Services](#)

[Ethernet VPLS](#)

[Ethernet Private Line](#)

[Ethernet Hub](#)

[Ethernet Access](#)

[Private Line](#)

[Wavelength](#)

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[Broadband Wireless Access](#)

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[Carrier / Wholesale](#)

[Complete List of Services](#)



### Get Scalable Access and Maximize Performance for IP Services

With one of the largest Ethernet footprints in the U.S., XO Communications gives you the ability to leverage the cost advantages of Ethernet to deliver high-speed Internet access, VoIP and MPLS IP-VPN services across your enterprise. In addition, you can leverage the flexibility and scalability of Ethernet to maximize the performance of your network for IP-based voice and wide area network services.

Our nationwide Ethernet footprint utilizes multiple access capabilities to offer Ethernet to hundreds of thousands of business locations nationwide through a unique combination of fiber, copper, trunks/serial and broadband wireless access capabilities.

### Achieve Maximum Performance for Internet, VoIP and Managed Network Services

In addition to carrying your own applications, use Ethernet to deliver voice and managed network services including:

- High-Speed Dedicated Internet Access at speeds up to 40 Gbps
- VoIP solutions such as XO IP Flex, XO IP Flex with VPN, XO SIP and XO Enterprise SIP
- MPLS IP-VPN to hundreds of thousands of locations

### Key Advantages

- More bandwidth at lower cost per megabit - connect and accelerate important applications to more of your locations
- Ease of use - simple to install, upgrade, maintain and scale
- Avoid costly protocol conversions
- Increase productivity - transfer large data files on a single network
- Easily expand to new technologies - with a protocol that's independent of your physical networks

### Bandwidth and Delivery Options

- Ranging from 1Mbps to 40 Gbps with very scalable incremental bandwidth options depending on the service
- Guaranteed delivery - over dedicated bandwidth
- Supports IEEE 802.3ah Ethernet in the First Mile standards



Contact XO ▶



866-349-0134

### Related Resources

Service Overview:

- [XO@ DIA Service Overview](#)
- [XO IP Flex Service Overview](#)
- [XO IP Flex with VPN Service Overview](#)
- [XO MPLS IP-VPN Service Overview](#)

Industry Leadership and Recognition:

- [XO Communications Recognized by Frost & Sullivan as an Emerging Company of the Year](#)
- [XO Enhances Ethernet Portfolio](#)

Case Studies:

- [XO Ethernet over Copper Provides Increased Bandwidth and 100% Service Availability for HELP USA](#)
- [Ultimate Electronics Video](#)



## Private Line

Services > Network Services > Private Line

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



XO Private Line and Wavelength Services give you high-speed, dedicated point-to-point connections so you can securely transfer data between locations. Unlike public services such as frame relay and Asynchronous Transfer Mode (ATM), Private Line and Wavelength Services are designed to send extremely time-sensitive and private communications.

With top speeds and reliability, Private Line and Wavelength Services easily handle mission-critical applications like bulk data transfer, disaster recovery, distance learning, engineering, and video conferencing.

### Features & Benefits

- Streamline communications by using the XO national fiber network
- Choose from several high-capacity bandwidth options ranging from 1.5 Mbps to 40 Gbps including DS-1 (1.5 Mbps), DS-3 (45 Mbps), and OC-N
- Gain proactive, 24x7 availability with network management and monitoring
- Protect your network with XO state-of-the-art, self healing systems
- Help control expenses with flat-rate, consolidated billing and multiple contract terms.

**Contact XO** ▶  
 866-349-0134

#### Product Resources

[Private Line Product Sheet](#)

[Wavelength Product Sheet](#)

Podcast: [XO Launches 40 Gbps Network Services](#)



## Wavelength

Services > Network Services > Wavelength

### Services

Services Overview

VoIP Services

Voice Services

Network Services

MPLS IP-VPN

IP Flex with VPN

Dedicated Internet Access

Ethernet Services

Private Line

Wavelength

Colocation

Broadband Wireless Access

Managed Security

Hosted Services

Carrier / Wholesale

Complete List of Services



For organizations with bandwidth-intensive applications, XO® Wavelength is a reliable high-capacity networking solution that combines superior bandwidth with nationwide coverage. Wavelength is an easy-to-implement, fully-managed solution for point-to-point connections between cities or across the country.

Wavelength is an ideal solution for when you need to move large amounts of data, provide disaster recovery or large bandwidth redundancy, carry real time video, connect large data centers, or provide near real-time transaction processing.

Access the award-winning XO network which is one of the largest and most advanced IP networks in the U.S. with nationwide reach and local presence for door-to-door delivery of your data traffic.

### Features & Benefits

- Bandwidth available at 1 Gig E to 40 Gig E or 2.5 Gig to 40 Gig (clear channel)
- Increased productivity with the ability to transfer large data files are consistent speeds on a single network
- XO provides more bandwidth at a competitively lower cost per megabit
- Accommodate multiple protocols including Ethernet, Asynchronous Transfer Mode (ATM), SONET, and Frame Relay
- 24 x 7 performance monitoring and management backed by aggressive Service Level Agreements
- Availability of a low latency route between the New York and Chicago metro areas.

### Product Resources

[Wavelength Product Sheet](#)

Podcast: [XO Launches 40 Gbps Network Services](#)



## Carrier / Wholesale Overview

Services > Carrier / Wholesale

### Services

Services Overview

VoIP Services

Voice Services

Network Services

Hosted Services

Carrier / Wholesale

VoIP services

Voice services

Network Transport

Internet services

VPN Services

Carrier Customer Care

Complete List of Services



### Telecommunications Services for Carriers and Service Providers

XO Carrier Services provides high-performance data, IP, and network transport services for national and international telecommunications carriers, cable companies, content providers, and mobile wireless companies.

#### XO Carrier Services at a Glance

- Winner of six Atlantic-ACM Wholesale Carrier Excellence Awards, 2010
- Global Telecoms Business Innovation Award for Wholesale Service Innovation for Ethernet Services, 2009
- Recognized by Frost & Sullivan as an Emerging Company of the Year. Honored for MPLS IP-VPN Strengths and Early Investments to Expand Nationwide Ethernet Coverage, 2009
- Winner of four Atlantic-ACM Wholesale Best-in-Class Awards in 2008
- Cisco IP Innovator of the Year Award for Innovative Use of IP Technology, CompTel PLUS 2008
- #27 on InformationWeek 500, 2008
- Unique combination of nationwide, metro and wireless networks to deliver innovative IP services to customers
- Fully peered Tier I IP network with extensive private and public peering relationships
- Highly scalable and flexible service options to meet the complete communications needs of Carriers, Service Providers, Cable MSOs, Content Providers, and Mobile Operators of all sizes
- Customer-focused account teams and product solutions
- Customer-friendly tools & management applications for automated pricing and order processing

Contact XO ▶

Sales: 800.474.1763

Care: 877.792.5550

#### Recent Carrier Videos

-  [It's Time to Transition to IPv6!](#)
-  [Intro to MPLS IP-VPN Videos](#)
-  [Ethernet Hub Service Demo](#)

#### Carrier Quick Links

[XO Carrier Overview](#)

[XO Network Overview](#)

[Quarterly Newsletter](#)

[Access the Carrier Request Form](#)

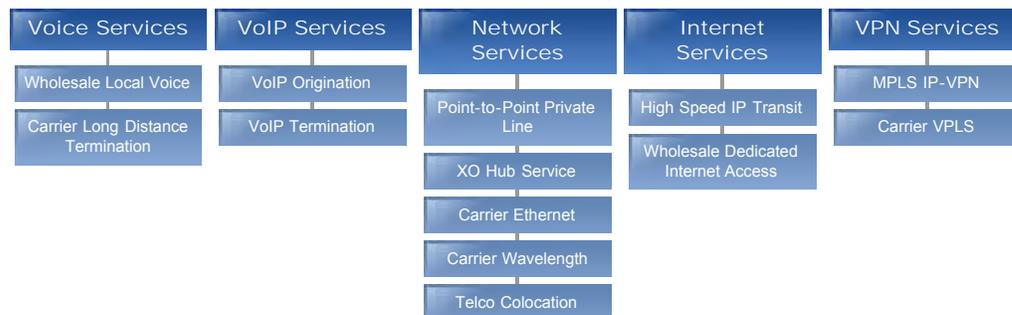
#### Events & Trade Show Meeting Scheduler

[Trade Show Meeting Scheduler](#)

[Trade Show Schedule](#)

XO understands that carriers and service providers need more than just bandwidth to satisfy their customers. So along with the generous bandwidth capabilities we offer, our products, services, and dedicated customer and technical support make it possible for you to deliver what your customers need.

#### Portfolio of Services



## Carrier / Wholesale Resources

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### Case Studies

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- [Broadband Service Provider Partners with XO® to Create an Innovative, Affordable Voice over Ethernet Solution for Small to Mid-Sized Businesses](#)
- [XO Virtual Front Office Helps Masergy Provide a Superior Customer Experience](#)
- [Internet Telephony Service Provider Extends its Reach with XO® VoIP Origination and Termination Services](#)
- [Voice and Data Provider Improves Network Performance and Reduces Cost with XO® High-Speed IP Transit](#)

### White Papers

---

- [Opening The Door To The Mid Band Ethernet Market Opportunity: Ethernet over Copper Based Access For Carriers, Resellers, Cable MSOs and Managed Services Providers](#)
- [Ubiquitous & Affordable Ethernet: A Perspective on XO's Ethernet Hub Service](#)
- [The Bandwidth Demand Surge](#)

### Let's Talk!

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[Schedule](#) a person-to-person meeting with XO Carrier Services at an upcoming trade show. View our [Trade Show Schedule](#) to see all upcoming events.

[About Us](#) | [Contact Us](#) | [Careers](#) | [Learning Center](#) | [Privacy Policy](#) | [Terms, Conditions, and Service Level Agreements](#) | [Site Map](#) | [www.xo.com](#)

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**Zayo**



Leadership Team  
Careers

**Near Net Search**  
Insert your address.

**Network by Region**  
Select

[Home](#)

## About Us

**Your Network. Our Mission.** Zayo will provide agility where it counts while maintaining a strong and growing network that is designed to connect to your locations.

Zayo Bandwidth, a wholly owned subsidiary of Zayo Group, owns and operates fiber optic networks in various regions of the United States.

While working with us you should expect:

- **Service Quoting** - extreme responsiveness from your account team with a designated vertical marketing support staff, who understand the needs of large consumers of fiber based bandwidth.
- **Proactive Solutions** - continued proposals for strategic builds, interconnects and solution building packages.
- **Service Maintenance** - a robust network providing reliable bandwidth services you need.
- **Service Installation** – accurate timelines; regular and prompt updates as needed for project implementation and circuit turn-up status.
- **We will provide agility where it counts** - build into locations others aren't able to and offer creative solutions and alliances where others can't or won't.

Zayo Bandwidth collaborates with its carrier and enterprise customers to develop bandwidth solutions that meet their specific requirements. Carrier customers include telecom, wireless, cable TV, satellite customers and Internet service providers. Enterprise customers include disaster recovery businesses, content companies, education, financial services, health care, large enterprise and other bandwidth dependent businesses. Zayo Bandwidth provides private line, wavelength, Ethernet, Internet and colocation services.

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Zayo Group	Zayo Bandwidth	zColo	Zayo Fiber Solutions	Zayo Enterprise Networks
Home	Home	Home	Home	Home
Zayo Bandwidth	Our Network	60 Hudson Street	Why Dark Fiber	Our Network
Zayo Fiber Solutions	Customer Care	111 8th Avenue	Dark Fiber Verticals	Dedicated Fiber Solutions
zColo	On-Net Building List	165 Halsey Street	Service Solutions	Metro Ethernet Solutions
Zayo Enterprise Networks	Custom Solutions	Colocation Solutions	Network	Industry Insight Events
Investor Relations	Low Latency	Interconnect Solutions	Building List	Zayo Enterprise zNews





- ▼ Industry Segment
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  - Dark Fiber
  - ▶ Private Line
  - ▶ Ethernet
    - Wavelength
    - Internet Access
    - Colocation
    - Tariffs

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## Custom Solutions

### Your Network. Our Mission.

Zayo Bandwidth understands issues such as network diversity, disaster recovery and latency. Zayo knows that having a custom built solution provides the network assurance you need.

Our Zayo Enhanced Network Process is built on understanding your unique requirements and then leveraging Zayo's capital and assets to develop a cost-effective solution for you. Our network spans over 22,000 route miles; connecting more than 3,300 buildings in 150 markets, including deep fiber in 60 Metro Markets.



### Zayo Enhanced Network Process - Custom Builds [\[diagram\]](#)

- Custom network solutions (physical and logical)
- Maximum uptime/unique routes
- Implementation with a single point of accountability
- Lower total cost of ownership (vs. legacy networks)

### Designed for Specific Applications

- Specific network redundancy requirements
- Standard corporate data center applications
- Multi-site connectivity
- Cost effective fiber-based transport
- Disaster recovery/SAN applications
- Video transport
- Low latency application

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### Near Net Search

Insert your address.

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  - Finance
- ▶ Carrier Solutions
  - Media Content Providers
  - Disaster Recovery
- ▶ Education
- ▶ CATV/MSO
- ▶ PTT
  - RLEC and Regional Carriers

#### Service Type

- Custom Solutions
- Fiber to the Tower
- Low Latency
- Dark Fiber
- ▼ Private Line
  - POP to POP
  - POP to LSO
  - Pop to End User
  - Flex Plan
  - Hub Tail
  - Dedicated Ring

- ▶ Ethernet
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## Private Line

Private line service provides dedicated point-to-point and point-to-multipoint data transmission systems that are both logically and physically protected to ensure maximum network availability. All private line services are provided over Zayo's fiber-based carrier grade network. Zayo's private line service delivers fiber-based (DS3-OC192) metro and regional transport between major aggregation points. It is offered as a protected or unprotected service with multiple diversity and interface options that support point-to-point, hub/tail, dedicated ring, and "flex package" configurations. Zayo's private line service is both logically and physically protected to ensure maximum network availability. Detailed Product Offering Zayo provides private line service in the following configurations:

- [POP to POP](#) (point-to-point configuration)
- [POP to End User](#) (point-to-point configuration)
- [POP to LSO](#) (point-to-point configuration)
- [Dedicated Ring](#)
- [Hub/Tail](#) (point-to-multipoint configuration)
- [Flex Plan](#) (multipoint-to-multipoint configuration)


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- ▶ PTT
  - RLEC and Regional Carriers

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- Custom Solutions
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  - POP to POP
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## POP to POP

### Key Features and Benefits

- Fiber-based transport to connect your POP to interconnect locations such as: carrier hotels, Internet peering locations, cable provider head-ends, and wireless carrier MSCs.
- Connectivity is available via Zayo's metro and/or regional networks
- Zayo's network is diverse from major carrier and ILEC networks
- Zayo has more than 400 **on-net carrier buildings**
- Service available as DS3-OC192 private line

### Key Points to Note

- Zayo continues to add new buildings in support of carriers
- **Fiber maps** available by market



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## POP to LSO

### Key Features and Benefits

- Fiber-based transport to connect your POP and the ILEC LSO
- Connectivity is available via Zayo's metro and/or regional networks
- Zayo has more than 150 **on-net ILEC LSOs**
- Service available as DS3-OC48 private line

### Key points to Note

- Zayo continues to add new ILEC LSOs in support of carriers
- **Fiber maps** available by market



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#### Industry Segment

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- ▶ PTT
  - RLEC and Regional Carriers

#### Service Type

- Custom Solutions
- Fiber to the Tower
- Low Latency
- Dark Fiber
- ▶ Private Line
  - POP to POP
  - POP to LSO
  - Pop to End User
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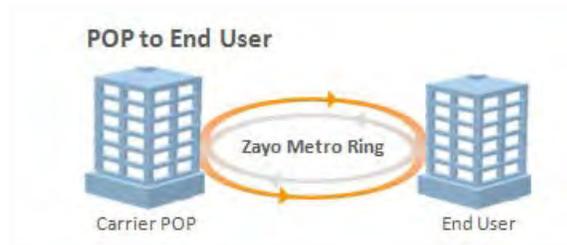
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# POP to End User

## Key Features and Benefits

- Access your customers via Zayo's metro and regional fiber-based networks. Zayo has more than 2,600 on-net buildings in 28 states.
- DS3-OC192 service available



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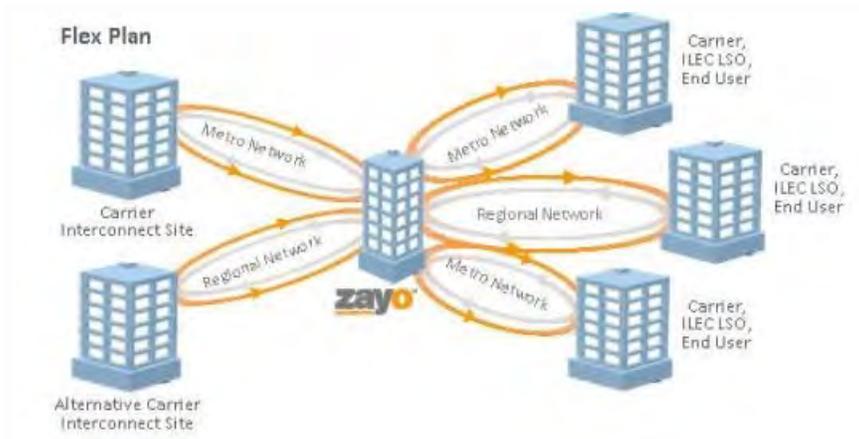
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## Flex Plan

### Key Features and Benefits

- Access your customers from multiple points of aggregation. You select the network interconnect locations based on your network needs
- Provides maximum flexibility
- Minimizes the number of physical connections
- Creates economies of scale
- Reduces workload and “truck rolls”
- Available as OC12 and OC48 packages



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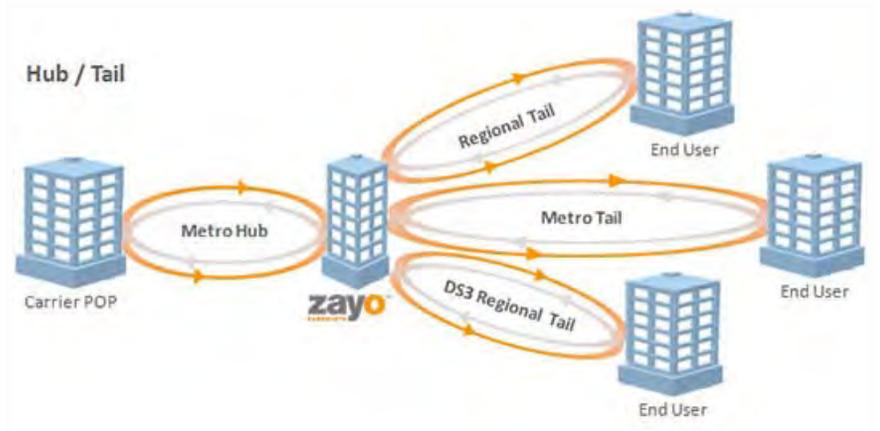
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# Hub Tail

## Key Features and Benefits

- Fiber-based transport to access your customers via Zayo's more than 2,600 **on-net buildings** in 28 states with a single, aggregated point of interface
- Connectivity is available via Zayo's metro and/or regional networks
- Turn up incremental circuits for your customers faster
- Reduce the number of physical connections
- Create economies of scale
- Reduce workload and "truck rolls"
- Service available as OC12 & OC48 private line hubs, and DS3-OC12 private line tails
- Leverage the Zayo network which is diverse from most major carrier and ILEC networks
- **Fiber maps** available by market



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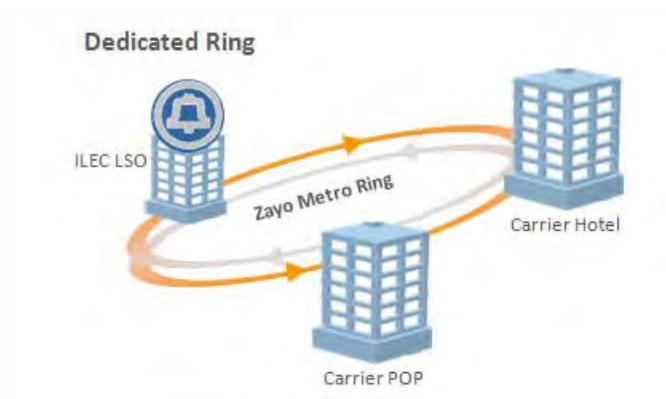
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# Dedicated Ring

## Key Features and Benefits

- Dedicated Sonet ring connection to multiple locations via Zayo’s metro and regional fiber-based networks
- Connectivity between your POP and other carrier POPs, carrier hotels, cable provider head ends, and wireless carrier MSCs
- Zayo has more than 2,600 **on-net buildings** in 28 states.
- Service available as OC12-OC192 private line
- **Fiber maps** available by market



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## Ethernet

Zayo's Ethernet service connects various points across a metro or regional area using our fiber-based network. With E-Line, E-LAN, dedicated and shared bandwidth offerings, Zayo has the solution you need.

**An alternative to carrier grade transport** Zayo's Ethernet offering is designed as a carrier grade transport alternative for traditional TDM, SONET, ATM and Frame Relay networks. Zayo offers protected and unprotected Ethernet with multiple interface options and speeds ranging from 10Mb to 10Gb.

### Detailed Product Offering

Zayo provides Ethernet in the following configurations:

- [Metro Ethernet E-LAN](#)
- [Metro Ethernet E-Line](#)
- [Regional Ethernet E-Line](#)

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## Metro-E-Lan

### Features and Benefits

- Dedicated or shared point to multi-point connectivity
- Available in 9 metro networks in 4 states in Zayo's footprint
  - Memphis
  - Allentown/Bethlehem
  - Harrisburg/Mechanicsburg
  - Scranton/Wilkes Barre
  - Reading
  - York
  - Williamsport
  - Lancaster
  - New York/New Jersey
- Scalable replacement for Frame Relay and ATM networks



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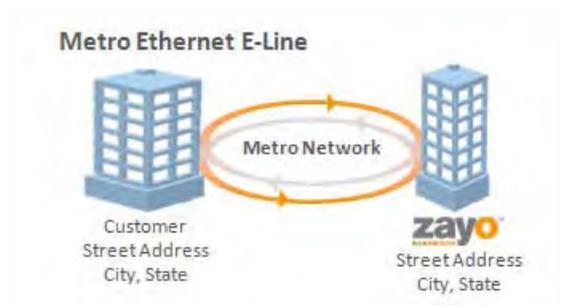
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# Metro-E-Line

## Features and Benefits

- Dedicated or shared point to point connectivity within a metro network
- Available in 60 metro networks across 30 states in Zayo's footprint
- Cost effective replacement to SONET networks
- Efficient transport alternative for Internet access



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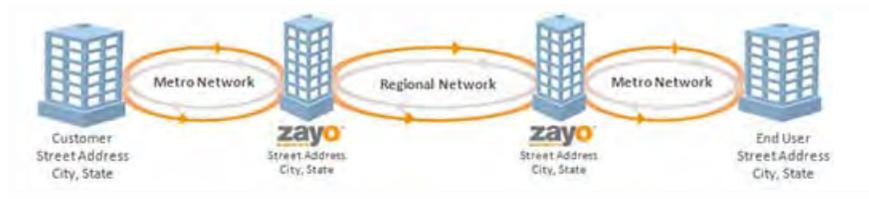
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## Regional-E-Line

### Features and Benefits

- Dedicated or shared point to point connectivity across a regional network
- Available in numerous on-net locations in Zayo's footprint
- Cost effective replacement to SONET networks



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## Wavelength

Zayo's wavelength service provides scalable bandwidth and service reliability. Services ride our fiber-based network and are available in speeds of 2.5G and 10G.

**Metro and regional high-speed service** Zayo wavelength service provides dedicated metro and regional high-speed, unprotected, point-to-point service at speeds of 2.5G, 10G, and 10GigE LAN/WAN PHY. Utilizing DWDM technology, Zayo provisions wavelength services designed to meet the growing high-bandwidth needs of regional, national, and international providers of data, voice, and video traffic.

- [Optical Wave - POP to POP](#)
- [Optical Wave - POP to End User](#)

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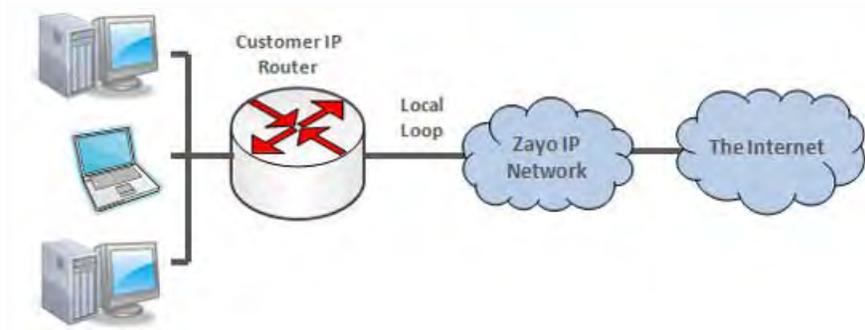
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## Internet Access

Businesses today require scalable and reliable Internet connectivity to accomplish business-critical functions. With Zayo's Dedicated Internet Access (DIA) service you receive dedicated bandwidth, and by connecting directly to our extensive fiber optic network, you get speeds that are scalable from 10Mbps to 1Gig.

### Maintain the highest levels of Internet performance

Dedicated Internet Access (DIA) is for businesses and ISPs that want to maintain the highest levels of Internet performance. Data is delivered between your local area network (LAN) and a Zayo POP over a dedicated local access loop. Zayo offers TDM or Ethernet interfaces with speeds starting at 10Mbps. Zayo's DIA service is multi-homed to a minimum of two upstream transit providers, is scalable, provides strong SLA's, and is monitored 24x7 by our Network Control Center (NCC).



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## Company

Headquartered in Louisville, Colorado, Zayo Enterprise Networks provides Bandwidth Infrastructure solutions to businesses, schools, hospitals, government agencies and regional telecommunications providers in markets across the United States. Leveraging its expansive fiber networks, Zayo delivers high bandwidth solutions key to the success of information-intensive organizations, including: Dark Fiber, Ethernet, Internet, Colocation and Managed Communications Services.



Zayo Enterprise Networks is part of Zayo Group. Launched in 2007, Zayo Group consists of four business units, each with a core competency in communications solutions for the particular customer set that it serves. Zayo Group's fiber footprint consists of over 21,000 route miles in 144 markets across 28 states.

Zayo Enterprise Networks is managed and operated regionally to enable a focus on its customers and its capabilities within each market. Supported by access to corporate resources, we believe being close to our customers with a locally led business team allows us to be most responsive to our customers' needs.

Contact - Glenn Russo, President  
[Glenn.Russo@zayoenterprise.com](mailto:Glenn.Russo@zayoenterprise.com)

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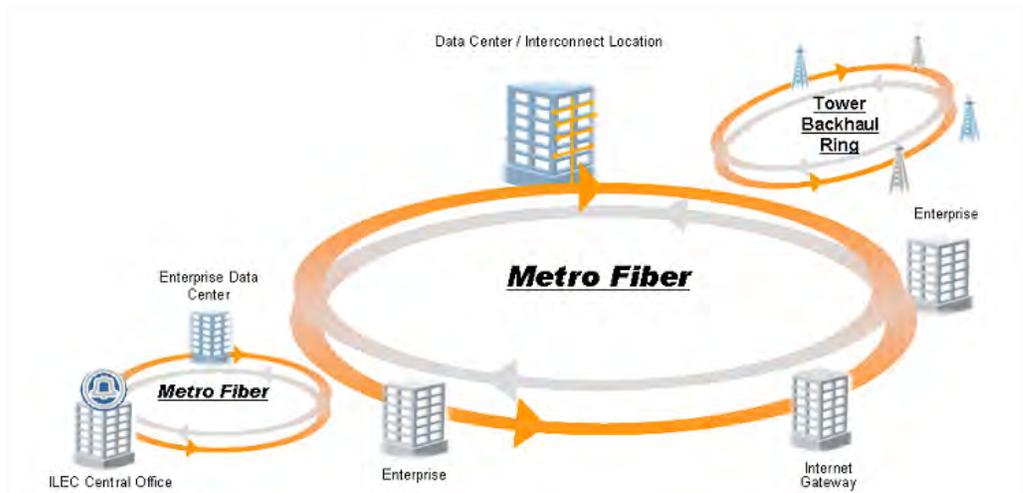
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## Solutions

### Delivering Bandwidth Infrastructure & IP Solutions to Grow Enterprise Businesses

- Strategic focus on high-quality data communications for single and multisite organizations
- We leverage our metro and regional fiber assets to deliver cost-effective business solutions
- We invest in our network growth to extend local reach

Zayo Enterprise Networks collaborates with Enterprise customers with large and growing needs for bandwidth to develop fiber-based bandwidth solutions to meet their specific requirements. Our mission is to provide fiber-based bandwidth, responsive solutions and a strong and growing network.



Zayo brings a great deal of fiber and metro Ethernet network management expertise and operates thousands of circuits for carriers and enterprise institutions and understands the criticality of these networks to our customers. Our core competency is the design, implementation and successful support and management of fiber-optic networks. We build fiber laterals, end-to-end networks and high capacity services to support mission critical applications for medium and large enterprises, government, K-12 and higher education, financial services and healthcare, data centers, web-centric businesses, and technology companies.

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## Ethernet Services

Whether you are looking to seamlessly support a large number of users, connect several offices in a Metropolitan Area Network, or access the Internet quickly and reliably, Zayo Enterprise Networks' Fiber Ethernet offers the high level of performance and consistency you need. You benefit with the use of Ethernet as a wide area transmission technology in terms of both economics and simplicity.

Zayo Enterprise Networks' Fiber Ethernet Service is a fully managed switched Ethernet service connecting your LANs within the same metropolitan area using an optical transport. Our switched network provides you with scalable optical service for flexible bandwidth options ranging from Fast Ethernet to Gigabit Ethernet and even to 10 Gigabit Ethernet to help you meet your growing Ethernet application needs.



**Benefits of our Ethernet Services include:**

- Variable bandwidth enabling you to fine-tune your network needs at each location
- Seamless interconnection with no additional equipment on your premises
- No protocol conversion required ensuring interoperability between your LAN and metro area network
- Multiple service configuration options (point-to-point, point-to-multipoint, multipoint-to-multipoint) allowing you to build a tailor-made high-speed network
- Delivered directly to your terminating equipment via Cat 5e wiring or fiber
- Protocol transparent
- Network monitoring

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## Dedicated Internet Access

### Reliable and Hassle-Free Internet Service

Zayo Enterprise Networks' high-performance Dedicated Internet Access (DIA) service combines essential Internet features with global Internet reach and scalability for enterprises of all sizes.

Our Dedicated Internet Access is a proven performer for businesses requiring a permanent, high-speed Internet connection. We deliver Dedicated Internet Access over a bandwidth rich Ethernet over Fiber circuit to give you a reliable and highly-scalable connection and we offer it with a variety of bandwidth options to meet your needs. Connect your enterprise to millions of Internet businesses and users around the world.



Zayo Enterprise Networks has a proven ability to deliver premium Internet Access over Ethernet connectivity and technical excellence. Maximize your business efficiency and gain the benefits of Dedicated Internet Access virtually hassle free through our reliable access technology coupled with our optical fiber network and proactive management.

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## Wavelength Services

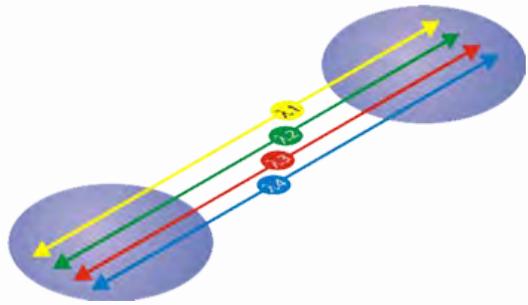
Wavelength service provides you with a high-speed, private network with dedicated transport options. Our Wavelength service gives you affordable high-bandwidth transport connectivity in single or multiple wavelengths making it easy for your business data needs to grow in "leaps."

### How It Works

Zayo Enterprise Networks' Wavelength services offer a 2.5 Gbps or a 10 Gbps optical circuit connections. We deliver the connections as unprotected signals or as protected signals using Dense Wave Division Multiplexing (DWDM). Many data streams can then travel over the same pair of fiber by using different colors of light.

### Benefits

- Customized solutions for dedicated optical interface transport.
- Efficient and scalable way to connect mainframes within a metropolitan area
- Provides a reliable, high-bandwidth transport to support data storage networks
- Secure, high-capacity network platform for off-site data backup and disaster recovery



**Transparency** – Wavelengths is a physical layer architecture and can transparently support multiple data and TDM formats

**Resilient** – Wavelength service provides optical protection and carrier grade reliability

**Scalability** – Additional capacity can added within an existing wave or by adding a new wave on the existing route

**Low Latency, Low Bit-Error-Rate** - Ideal for mission-critical synch mirroring applications

**Secure** – Wavelength service provides separation between customers

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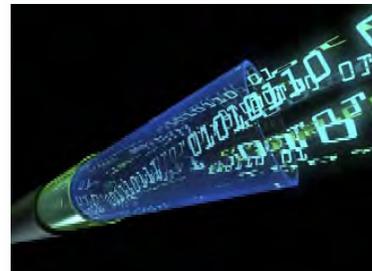
## Private Data Network

Zayo Enterprise Networks uses its secure, private network to create virtual connections between your locations as needed. You can securely share data across your locations on this Private Data Network (PDN), without the need to purchase expensive physical private line connections.

We dedicate bandwidth between your PDN sites as needed. PDN traffic is prioritized, ensuring that your data transfer is as quick as it is secure.

**Benefits of our PDN service include:**

- Significant cost savings over dedicated private line solutions
- Remote offices or branches can have private access to the same data as your headquarters
- Secure PDN can be established to other on-net sites as needed, allowing you to share data with your outsourced vendors



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**WIRELESS**

# **Airband**



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## Leading the Fixed Wireless Revolution

Airband Communications is the largest fixed wireless provider serving businesses in the United States. We deliver a comprehensive portfolio of high-bandwidth Internet access, point-to-point private line services and managed solutions over one of the industry's most scalable last-mile networks.

Founded in 2000, Airband built its wholly-owned network to bypass the local phone and cable companies, providing customers with faster install times, unmatched scalability and complete path redundancy from the traditional wireline infrastructure. Today, Airband provides service in 14 markets and is expanding quickly.

Airband is managed by a senior leadership team that is focused on providing an exceptional customer experience for every single customer. Our employees are passionate about delivering the results businesses are looking for. At Airband, we're known and respected for our local support staff, exemplary service and customer responsiveness. We are proud to serve thousands of businesses nationwide.

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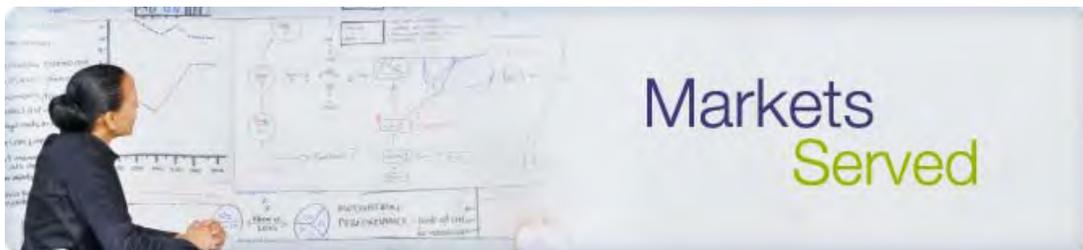
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## Markets Served

Airband currently offers services in the following markets. We are continually expanding our network coverage. If you have an inquiry about a specific market or future markets, please [contact us](#).

Below are maps of our coverage areas:



Atlanta, GA



Austin, TX



Baltimore, MD



Dallas/Ft. Worth, TX



Des Moines, IA



Fort Lauderdale, FL



Houston, TX



Las Vegas, NV



Los Angeles, CA

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## Fixed-Wireless Network & Technology

Airband's suite of services is based on fixed-wireless technology. We offer a wide-range of business-class network services designed to meet bandwidth requirements for companies of all sizes, with up to Gigabit Ethernet (GigE) speeds. The fixed-wireless technology we use is different than Wi-Fi, in that it can provide more bandwidth, across a larger geographic area, with quality of service guarantees.

### What Is Fixed Wireless?

Just as an airplane flies over a crowded freeway, fixed-wireless networks avoid the "traffic jams" of hard-wired networks to stream high-speed data, voice and Internet services to customers with remarkable simplicity and reliability. Fixed-wireless services can be installed in a matter of days, and the network is extremely scalable, so customers have the ability to easily increase bandwidth on an on-demand basis.

### How Fixed Wireless Works

Airband delivers its integrated services over a wholly owned last-mile network. Within each market, Airband builds multiple base stations to provide service for its customers. Airband base stations broadcast and receive data through Access Points, which are typically located atop tall buildings to ensure maximum range. The signal is received by another radio – Subscriber Units (SUs) – at the customer's location. Each base station covers up to a five-mile radius, approximately 78 square miles of coverage.

For customers who require higher bandwidth or dedicated connection between two locations, Airband deploys point-to-point service in both the licensed and the licensed-exempted spectrum. Point-to-point service can reach up to 20 miles with clear line of sight. Unlike wireless broadband services for residences, Airband's high-speed data and VoIP services travel securely via Airband's private network, ensuring that Airband customers are receiving true, business-class service that is both safe and secure.

### The Fixed Wireless Advantage

Airband's service differentiation is based on the simplicity of its fixed-wireless network. While traditional networks are mired in mix-and-match technologies pieced together over decades, Airband designed and built its network from the ground up for the sole purpose of delivering fast and flexible high-bandwidth solutions to businesses. Fixed wireless offers a number of compelling advantages over traditional copper and fiber connections, including:

#### ▶ Rapid Installation:

Whereas wired service providers can take weeks – even months – to provision a connection for a new customer, Airband can have customers activated in a much shorter timeframe.

#### ▶ Scalable Bandwidth:

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When customers need more network bandwidth, it's as easy as "turning up the dial," and Airband can make it happen in a matter of hours. Such bandwidth elasticity is perfect for growing companies that need to ramp up service over time, or handle short-term spikes for business continuity and disaster recovery purposes.

► **Path Diversity:**

Airband's network offers a truly diverse path, unaffected by the vulnerabilities of traditional networks such as cable or fiber cuts that can take days to repair. What's more, Airband offers Dual Path Service Delivery (DPSD), which automatically "fails over" the customers' service to the backup circuit to provide even greater protection against downtime.

► **No Upfront Capital Investment:**

There is no additional equipment cost to implement Airband's data services and upgrading circuits will not require equipment upgrade charges.

► **Ethernet Connectivity:**

Our data service is delivered via an Ethernet connection, making it easy and simple for customers to connect directly to their LAN.

### Reliability and Security

Not only is fixed-wireless a more efficient and affordable path to high-speed bandwidth, it is more secured and reliable than traditional telecom networks. First, Airband's network is designed with redundant paths from each base station to its core network ensuring service reliability. Airband's wireless equipment is not configured for open access, meaning that only Airband and the equipment manufacturer are aware of the data transmission and authentication scheme used to initiate communication. Additionally, data is transmitted to and from Airband customers using 128 bit Advanced Encryption Standard (AES), an extra layer of security.

From a quality of service (QoS) perspective, Airband deploys eight levels of signal modulation where the network radios automatically choose the appropriate level to ensure optimal throughput during adverse weather conditions. Airband's roof top radios are designed to withstand up to 120 mph winds. Airband backs up its service with a 100% uptime guarantee and is one of the few fixed wireless service providers that has service level guarantees on jitter, latency and packet loss.

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# Fixed Wireless Internet Access

## The Internet access service you will never outgrow

Airband provides all levels of Internet access services for businesses, from small businesses to Fortune 1000 companies. With our fixed wireless technology, Airband literally goes above existing landline networks to deliver Internet access directly to your location. We offer high-bandwidth speeds at affordable rates. And our services are not restricted to T1 or DS3 increments, so you can get just the amount of bandwidth you need.

**2 Mbps to GigE Speed:** With Airband, you can install new service without the hassles and long lead times associated with traditional landline services. Initial installation can take just a matter of days, not weeks or months.

**Lightning Fast Upgrade:** Bandwidth can be easily upgraded within hours with a software change in our network.

**Ethernet Connectivity:** Our service is delivered via an Ethernet connection, making it simple for you to manage and connect to your LAN.

**No Upfront Capital Investment:** There is no upfront equipment cost needed to implement Airband's service and bandwidth upgrades will not require additional equipment charges.

**Reliability You Can Count On:** We deploy eight levels of signal modulation and our radios automatically choose the appropriate level to ensure optimal throughput.

**Secured Transmissions:** Our wireless hardware utilizes 128 bit Advanced Encryption Standard (AES) to protect your data.

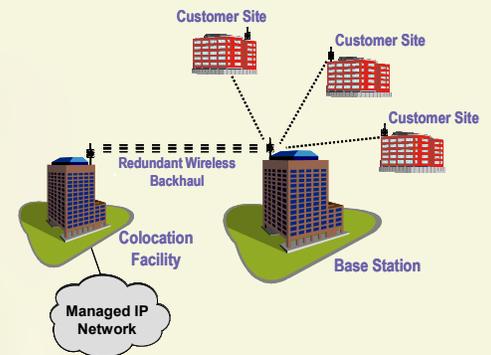
**Reliability You Can Count On:** With our Dual Path Service Deployment option, we can back-up your wireless connection with a wired or wireless circuit and manage failover for maximum reliability.

**100% Uptime Guarantee:** We're the only service provider in the industry that has service level guarantees on jitter, in addition to latency and packet loss.

## KEY BENEFITS

- Scalable bandwidth on demand
- Installation in days
- Ethernet service
- Secure and reliable
- 100% uptime guarantee

## Point-to-Multipoint Deployment





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[Home](#) / Reduce Cost from Your Bonded T1s

## Reduce Cost from Your Bonded T1s

Tired of bonding charges, equipment upgrades and long install times to increase your network bandwidth?

Internet access and data services based on fixed wireless technology is a network option that you should consider for your business. With fixed wireless services, you are not restricted to buying bandwidth in T1 or DS3 increments. It is more affordable than traditional wired services and can be easily scaled to the level of service that is exactly right for your business.

Fixed wireless services leverages WiMAX and other wireless technologies to go literally above the congested wireline infrastructure to bring you data connectivity. This means installation takes less time and effort, even in the most crowded metropolitan markets.

For example, if your business has an existing T1 connection and is looking to increase bandwidth by adding another T1, you will most likely wait 30-45 days for installation, pay an additional bonding charge and spend more capital on termination equipment. With fixed wireless services, your bandwidth can be increased in as little as 24 hours and your upgrade cost will be far less than pulling in another T1.

Airband is the largest fixed-wireless service provider for business in the U.S. We leverage wireless technology to bring businesses the most scalable and affordable Internet access and data services in the industry. In many instances, we can provide you with more bandwidth for the same price you are paying today with wired services. For high-bandwidths, DS3 or above, the cost savings from deploying fixed wireless services is even more prominent. It is not unusual to see a 20%+ savings by switching to high-bandwidth fixed wireless services.

Airband provides services from 2 Mbps up to GigE speeds. Our service is delivered via an Ethernet connection that you can plug directly into your LAN, without additional termination equipment. We stand behind our service with a 100% uptime guarantee. Contact us today to find out more.

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## Eliminate Local Loop Charges with Airband Service

Local loop is the dedicated connection from your business location to the nearest network provider facility. Most Internet Service Providers (ISPs) lease their "local loop" connections from the local phone company and bundle the loop with their Internet Access services. For high-bandwidth services, the local loop is often not bundled and has to be purchased separately. Businesses end up paying for a local loop charge in addition to Internet access or "port" charges.

Airband's fixed wireless network bypasses the local loop to provide Internet access without charging our customers local loop fees. We operate our wholly-owned last mile network to bring businesses the most affordable services in the industry. Here's a sample pricing comparison for 3 Mbps of Internet Access:

3 Mbps Internet Access	Local Loop	Internet Access	Total Monthly Charge
Wireline Provider	\$600 (2xT1 circuits)	\$125	\$725
Airband	Included	Included	\$449

Over a 36 month term, businesses can save over \$9,000 by using Airband's fixed wireless Internet access instead of traditional wired-based services.

If your business grows, we can easily double your bandwidth to 6 Mbps in as little as 24 hours. You can scale your Airband service without waiting 45 days for the delivery of 2 additional wireline T1s and spending additional capital for termination equipment.

Whether you are looking to increase bandwidth from one T1 to multiple T1s, DS3 or up to GigE speeds, the scalability of the Airband network can help you reduce operating expenses without sacrificing quality or performance. Best of all, we stand behind our service with a 100% uptime guarantee.

At Airband, we're known and respected for our local support staff, exemplary service and customer responsiveness. Call us today and see how we might be able to serve your needs.

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## Just the Amount of Bandwidth You Need - No Waiting

Fixed wireless Internet access from Airband is an affordable and scalable alternative to wireline options for your business. Airband offers Internet access services from 2 Mbps up to GigE speeds that can be installed at a fraction of the time generally quoted by the traditional providers. With our fixed wireless data services, you are no longer limited to T1 or DS3 increments – Airband gives you just the right amount of bandwidth you need to support your applications.

Our fixed wireless Internet access service is uniquely suited to your ever-changing needs, whether you're a small business or a Fortune 1000 company. With our fixed wireless network, Airband delivers high-bandwidth Internet access over the air, directly from our base station to your office. Because we bypass the local phone and cable infrastructure, you don't have to pay the additional cost of the local loop. We deliver internet access, loop and port for one affordable price. We stand behind our services with a 100% uptime guarantee, delivered at a cost performance level unmatched in the industry.

### ▶ Ethernet Service:

Our Internet access is delivered via an Ethernet connection, making it simple for you to connect directly to your LAN.

### ▶ Fast Install & Upgrade:

Airband can deploy your services in a matter of days – or upgrade your bandwidth in a matter of hours.

### ▶ Path Diversity:

Our wireless solution bypasses the traditional wireline network, providing you a true diverse path.

### ▶ Security:

Our wireless hardware utilizes 128 bit Advanced Encryption Standard (AES) to protect your data.

For more information, download our datasheet: [Fixed Wireless Internet Access Services Overview\(.pdf\)](#)

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## Business Broadband Dallas

### Business Broadband in Dallas - Less Expensive Than Wireline Service

Fixed wireless broadband is the affordable alternative to wireline service. Airband's service is considerably less expensive than wireline alternatives for several reasons.

First, installation of Airband service does not require pulling cable or fiber to your office. Instead, we simply install a small antenna (called a subscriber unit) on the roof of your building. The subscriber unit transmits and received data from the local base station that's connected to the Internet. The ease of installation enables Airband to rapidly deploy services, as opposed to waiting for weeks with traditional phone company services. Airband's wireless network also bypasses the expensive local loop infrastructure, allowing us to provide broadband service to our customers more economically.

Second, Airband services, Internet access, point-to-point data connections and voice over IP (VoIP) are extremely scalable. Traditional wireline services are limited by the physical capacity of the cables used. The cost for each increment of service, whether it's a T1 or DS3 line, is the same no matter how many you have. For instance, two T1 lines would cost twice as much as one T1 line, and three lines would cost three times as much, with very little discounting. As bandwidth requirement increases, multiple T1 lines are bonded together until the cost of the multiple T1s are roughly the same as upgrading to the next level of service, DS3 at 45 mbps. A business that needs 20 mbps of bandwidth are either forced to upgrade more bandwidth than is needed or live with performance constraints. Because fixed wireless broadband networks are more flexible and do not rely on physical cables, Airband can offer bandwidth in any increment from 3 mbps up to GigE speeds. This makes bandwidth between 3 mbps and 45 mbps a "sweet spot" for Airband, serving small- and medium-sized businesses. At higher bandwidth levels, Airband service is even more economical.

Finally, Airband delivers its services via an Ethernet connection, making it easy for you to interconnect directly with your LAN. Bandwidth upgrades can be completed in a few days and in some cases in a few hours. Additional bandwidth does not require cable to be pulled or additional termination equipment as with T1 or DS3 services.

### Airband is Your Business Broadband Provider in Dallas

You can learn more about Airband's business broadband for businesses in Dallas by calling 1-866-AIRBAND (1-866-247-2263).

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## Enterprise Broadband Dallas

Fixed-Wireless is the Sensible Choice for Enterprise Broadband in Dallas

Fixed-wireless broadband service from Airband is a simple, affordable alternative to wireline options for enterprises. Airband leverages both the licensed and unlicensed spectrum to deliver Internet Access services to you wirelessly. The data signal travels in the air, from our base station to your location, to a subscriber unit installed on the top of your building. This enables you to connect to the Internet without paying for local loop charges. Your service is delivered to your office/telco closet via Ethernet. This means you can simply connect our cable directly to your LAN network for ease of management.

Expanding your service is also simple. The underlying infrastructure remains the same. We simply increase the bandwidth from our base station to your subscriber unit. This way, your bandwidth can increase as your business grows without the hassle of installing new cabling or equipment. You can make changes to your service quickly and easily, in days or even hours. With a wireline connection, the process is much more involved, requiring additional lines to be installed from the service provider and in many cases additional equipment for termination. If the underlying infrastructure is not already in place, this can be a costly, lengthy process.

With Airband, a bandwidth upgrade does not require additional infrastructure, there are no associated hardware costs with the changing your service. Added to the already reduced cost of using fixed-wireless versus wireline Internet, Airband's service is the economical alternative.

If you're looking for redundancy, Airband service is a great way to ensure you have a truly diverse path from existing wireline infrastructure. Since our fixed-wireless network is entirely separate from your wireline service, interruptions or cable cuts will not affect the service you get from Airband.

Conversely, if you use Airband's service for your primary connection, Airband can install a wired backup circuits in addition to our fixed-wireless service for optimum reliability.

Get Fixed-Wireless Enterprise Broadband in Dallas from Airband

Call Airband today at **1-866-AIRBAND** (1-866-247-2263) to find out more about our fixed-wireless service for enterprise, as well as the other business solutions we provide to our customers.

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## Industry Specific Solutions

As the largest fixed wireless broadband provider in the United States, Airband offers its voice and data services to businesses to a wide array of industries. Our scalable solutions enable us to design services that match the needs of companies of all sizes, from small businesses to enterprise organizations.

We currently serve customers across multiple industries including healthcare, hospitality, education, law, financial services, construction, non-profit, and consumer goods, each with fixed-wireless services customized to meet the ever-changing demands of business.

Companies nationwide rely on Airband for their high-bandwidth voice and data needs. With our 100% uptime guarantee, businesses of all sizes know they can count on Airband to deliver the industry's most scalable high-bandwidth services.

Click on the links below to find more information on Airband's industry specific solutions:

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## Business Broadband Phoenix

### Reliable Business Broadband in Phoenix

Many businesses these days still rely on wireline broadband services in Phoenix, typically in T1, DS3, and OC-3 speeds. Business with smaller needs will generally start with a T1 line, then get additional lines bonded together as their needs grow. This can be problematic for two reasons. First, it takes time—usually several weeks—to physically pull and install additional lines. Second, a business that doubles its bandwidth will basically be doubling its expenses.

With Airband business broadband, Phoenix businesses don't have to wait to have numerous lines installed in their locations—they can access service simply by having one of our subscriber units installed on the roof. Plus, our services are extremely affordable. Your business won't have to purchase or lease a lot of extra equipment, and scaling your service up or down is a snap.

### Get Flexible Business Broadband in Phoenix

With Airband fixed-wireless business broadband, scalability is extremely flexible, whether you want to upgrade by 3 mbps or 30 mbps. That means you don't have to pay for extra bandwidth you don't need—we'll simply adjust the signal to suit your needs, often within days. If you're a business that needs GigE speeds, Airband is even more economical when compared to traditional wireline services.

Because our network is wireless, Airband can also offer the assurance of a 100% Uptime Guarantee. Cable or phone broadband companies don't own their cables, they lease them—and charge customers extra for the "last mile" of line. In contrast, we own our entire network and can monitor it 24 hours a day, seven days a week. In the unlikely event of a problem, we have complete control and can often remedy a potential issue before would affect your business broadband's performance. To speak with a knowledgeable representative, call us at (602) 426-0600 or toll free at 1-866-247-2263.

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## Airband Solutions for Healthcare

Today's healthcare providers require 24/7, redundant connections to their voice and data networks in support of communications and applications that are vital to patient care. Because minutes and seconds count in providing patient services, Airband works with healthcare organizations to design and deploy reliable, medical-grade networks that serve their needs for delivering high-quality care.

With our flexible voice and data offerings, Airband's network seamlessly scales with a customer's bandwidth needs to accommodate large data files, medical imaging, and other healthcare applications that require high-bandwidth. Airband's fixed wireless network also provides true path diversity from wireline services, giving healthcare organizations an affordable option to leverage fixed wireless services as the scalable primary connection, backed by wireline services.

### Reliable and Secured Connectivity

Backed by a 100% uptime guarantee, Airband's healthcare customers can rely on services that are highly secure. Our wireless network utilizes 128-bit Advanced Encryption Standard (AES) to protect our customer's data, supporting HIPAA regulated applications.

### Easy to Manage and Upgrade

Airband services are delivered via an Ethernet connection, so customers can connect directly to their Local Area Networks (LAN), making it easy to configure and less expensive to implement. Bandwidth can be easily upgraded without long wait times.

### Cost Savings

Airband solutions deliver immediate ROI and cost savings because the cost per megabit is significantly lower than bonded T-1 lines, there is no upfront capital investment or incremental equipment upgrades for increased bandwidth, and no loop or bonding charges.

### Simple and Scalable Bandwidth

Airband healthcare customers only purchase the bandwidth they need – from 2 Mbps to GigE levels – because our services and upgrades are not tied to bonded T1s or fractional DS3 increments.

### From Our Customer

"With Airband's scalable data network, we were the first hospital in the region to provide free Internet access to all of our patients and guests. That successful service led us to move our production traffic to the same connection, delivering recognizable cost savings and a redundant secure network." John Tuman, Director of Network Services, WakeMed Health & Hospitals.

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## Airband Solutions for Hospitality

While most businesses experience change, few industries experience change on a daily basis compared to the world of hospitality providers. With seasonal shifts in occupancy rates and demand from convention and conferences, hotels require a network that can easily handle dynamic bandwidth requirements. Airband's fixed wireless services provide hotels with the scalability and flexibility they need to meet the demand of their guests, from Internet access to high-bandwidth applications such as video conferencing.

Hotel operators require a responsive network provider that delivers the services and support they can rely on, and with Airband, they get all that without the premium price tag. At Airband, we know how to work with hotels to help them with planned and unplanned requests for Internet access and capacity, enabling them to provide the best guest experience and accommodate all of their bandwidth-intensive needs.

### Just the Bandwidth Needed

From 2 Mbps up to GigE speeds, Airband services is not restricted to T1 and DS3 increments so you can get just the bandwidth you need without the hassles of bonding T1s or buying too much bandwidth. Airband can easily provide hotels with bandwidth upgrades to meet any unplanned requests from their guests.

### Significant Cost Savings

When compared to traditional wireline providers, Airband solutions' cost per megabit is more affordable. With Airband, hospitality customers do not have to pay for upfront capital investment or incremental equipment upgrades for increased bandwidth, and there are no loop or bonding charges incurred with Airband services.

### Rapid Installation and Secure Operations

Most new customers can have Airband services installed in less time than quoted by traditional landline providers. Our services are backed by a 100% uptime guarantee. Airband solutions are also highly secured, as our wireless hardware utilizes 128-bit Advanced Encryption Standard (AES) to protect customer data. Our network is supported by the company's Network Operations Center (NOC) that delivers 24/7 monitoring and customer services.

### Easy to Manage Connectivity

Because Airband's services are delivered via an Ethernet connection, our hospitality customers can easily connect our service directly to their Local Area Networks (LAN) router/switch.

### From Our Customers:

- ▶ "With Airband's dependable and easy-to-manage wireless Internet access service, we're able to provide superior services to our guests, positioning us above our competition. I can easily call Airband and scale my

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bandwidth needs to accommodate additional guests for meetings and conferences.” Ralph Carnal, IT Manager, Stephen F Austin InterContinental Hotel



- ▶ “With previous providers, when our Internet went down, business would come to a standstill; not an option in today’s market. Since switching to Airband, I have NEVER had a circuit go down. If any problems did come up, they were taken care of in minutes instead of days.” Jennifer Hale, IT Manager, Westin Hotel and Sheraton Marketplace

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## Airband Solutions for Educational Institutions

In today's educational institutions, the demand for data services has grown exponentially since the start of the decade. School administrators save time and money with online registration, instructors rely on the Internet to transmit learning materials and conduct online courses, and student life is almost entirely dependent on Internet access for research and sharing files with teachers and fellow students.

Airband's fixed wireless solutions are a perfect fit for the entire educational market, including high schools, colleges, universities and research facilities. Our highly secured and reliable Internet access services deliver exactly what school administrators, instructors and students demand – timely and scalable connectivity that meet the ever-growing demands on America's campuses. Airband's point-to-point offering is an affordable way to connect multiple campus locations with high-bandwidth services.

### Secure and Easy to Manage Connectivity

Airband services are backed by a 100% uptime guarantee and protected by 128-bit Advanced Encryption Standard (AES). Airband's educational customers can rely on its secure data services to protect even the most private information, including student contact information, grades and sensitive documents from instructors and administrative staff. With Airband services delivered via an Ethernet connection, IT staff can easily manage the network.

### Simple and Scalable Bandwidth

With the student population constantly growing, Airband educational customers can easily scale their bandwidth to meet demand, as it goes up during the school year and as it ebbs down during summer semesters. Since Airband services and upgrades are not tied to T1s or DS3 increments, educational institutions can have just the bandwidth they need, no more or less.

### Significant Cost Savings

Airband solutions are generally more affordable than traditional wireline providers. Educational institutions can leverage our services to offer bandwidth to dorm rooms or Internet campus centers for a fee. With Airband fixed-wireless solutions, schools do not have to dedicate a portion of their budgets to pay for upfront capital investments or incremental equipment upgrades for increased bandwidth on campus; these are areas for which other service providers typically charge.

### Rapid Installation and Failover Services

Airband services can usually be installed for most educational customers in less time than traditional landline providers. Because many schools also employ wireline service, Airband wireless solutions provide a true path diversity and redundancy in case of any failover situations.

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From Our Customers:

“After evaluating a variety of providers for a wireless failover system, we found that Airband offered a very cost-competitive solution with great bandwidth deliver that was a perfect match to our needs. The deployment was fast, the installation was a breeze, and the connection came up quickly and seamlessly during the test. With Airband behind us, our communications system will remain operational at all times, while delivering a better value than the major wireline service providers.” Richard Nelson, Director of Computing, USC-ISI

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## Point-to-Point Data Services

[Home](#) / [Services](#) / Point to Point Data

### Fast To Install. Easy To Manage. Unmatched Scalability

Are you tired of waiting on traditional wireline providers for last mile access or metro point-to-point circuits? Do you want the ability to easily upgrade your bandwidth without the hassels of equipment upgrades and installation headaches? Airband's point-to-point service leverages the latest fixed-wireless technology to deliver private line services quickly, even in crowded metropolitan areas. We offer high-bandwidth service from 10 Mbps up to GigE speeds.

You can take advantage of our service to replace your high cost local loop or metro private line service. From a redundancy perspective, Airband service is the perfect complement to wireline services, either as a primary or secondary connection. With Airband, you are ensured that our service is not routed through the same network as your wireline carrier, providing a true diverse path. You can protect your network performance from long downtimes if there is a fiber cut or wirline damage cause by construction or inclement weather.

► **Quick and painless installation:**

Airband can install your service without the long lead times you would expect with high-bandwidth fiber or wireline services.

► **Easy to use:**

Our data service is delivered via Ethernet, making it easy to manage and simple to connect to your network.

► **Secured Transmission:**

Our wireless hardware utilizes standard and proprietary encryption to protect your data.

► **Ensured Quality of Service:**

Airband has a 100% uptime SLA and is the only wireless provider in the industry that has service-level guarantees on jitter, latency and packet loss.

► **Single Point of Contact:**

Airband operates and manages our wholly owned network, so you can expect to work with the most responsive service team in the industry.

Airband delivers point-to-point services that are uniquely suited to today's dynamic business environment with unmatched scalability and affordability.

For more information, download our datasheet: [Point-to-Point Service from Airband](#) (.pdf)

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# Fixed-Wireless Point-to-Point Service

## Affordable, dedicated data service with unmatched flexibility

Businesses today are increasing reliant on high-bandwidth connectivity. Whether it's for LAN extensions within an office campus or connecting remote locations, reliable and affordable point-to-point service is mission critical to many organizations.

Airband's Point-to-point offering leverages fixed-wireless technology to deliver private line services quickly, even in the most populated metropolitan areas. Like an airplane flying over a crowded freeway, Airband's service bypasses the congested wireline networks to give customers the dedicated bandwidth they need, over the air.

**Scalable Bandwidth up to GigE Speeds:** Our service is not bound by T1 or DS3 increments, so you have the flexibility to install just the bandwidth they need, from 10 Mbps up to GigE speeds.

**Network Connection up to 20 miles:** Our fixed-wireless radios can broadcast signals up to 20 miles, with clear line-of-sight.

**Fast Installation and Delivery:** Depending on bandwidth and distance, service can be up and running in a couple of weeks, no waiting for months to turn up the circuit.

**Ethernet Service:** Our data service is delivered via an Ethernet connection, making it easy to configure and less expensive to implement. TDM handoff is also available.

**Fully Managed:** Whether the service is deployed in the licensed or license-exempt spectrum, Airband provides turn-key service from obtaining the license to the ongoing monitoring and managing the wireless circuit.

**Secured Transmissions:** Our wireless hardware utilizes 128-bit Advanced Encryption Standard (AES) to protect end-user data.

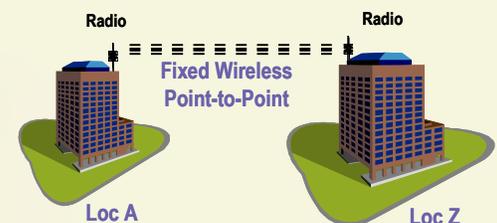
**100% Uptime Guarantee:** We're the only fixed-wireless provider in the industry that has service level guarantees on jitter, in addition to latency and packet loss.

**Single Point of Contact:** Airband operates and manages our wholly-owned network, so you can expect to work with the most responsive service team in the industry.

## KEY BENEFITS

- Available in all Airband markets
- Ethernet connectivity
- Turn-key delivery
- Fully managed
- 24x7 monitoring and support
- 100% uptime guarantee

## Point-to-Point Deployment





## Private IP VPN

[Home](#) / [Services](#) / Private IP VPN

## Virtual Private Networking that Inspires Confidence

Running a successful business requires that your employees, vendors and mobile workforce have reliable access to your corporate LAN while protecting your network from hackers, viruses and other malicious content. Airband provides the expertise to configure, proactively monitor and support a robust security solution that protects your LAN from these intrusions. Our offering provides a complete suite of managed security solutions:

▶ **Stateful Firewall:**

Protect your LAN from viruses and other malicious content. Intrusion protection blocks network attacks before they negatively impact an organization's information assets.

▶ **Integrated VPN :**

We give you the capabilities to provide site-to-site secured connectivity for branch offices.

▶ **Anti-virus, Anti-spam, and Content Filtering:**

These services can be bundled with our offering to protect end-users from malicious content, filter unwanted e-mails, and stop the inappropriate use of the corporate LAN.

We give you the level of confidence you demand in your IT security strategy. Even better, our solution requires no capital investment and is installed, managed and continuously monitored by our certified technicians. For more information, download our datasheet: [Managed Firewall Overview\(.pdf\)](#)

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# Managed Firewall & Virtual Private Network (VPN)

## Turnkey solutions to protect your data and business

Enterprises face an ever-increasing need to provide their employees, vendors, and mobile workforce access to their corporate LAN while keeping unwanted visitors out. Without a robust firewall and VPN solution, enterprises run the risk of damages from hackers, viruses, and other malicious content threatening their network and data integrity.

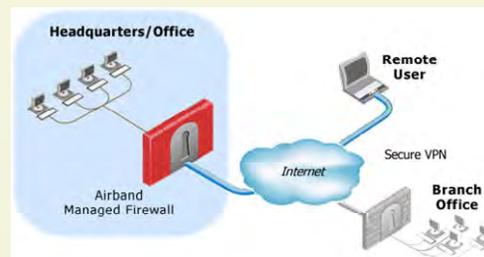
Airband provides the expertise required to configure, proactively monitor and manage a robust solution that delivers the level of confidence that businesses demand in their IT security strategy.

**Complete Suite of Managed Security Solutions:** Three key product features are combined for end-to-end managed security:

- 1 **Stateful firewall** protects your LAN from viruses and other malicious content. Intrusion protection blocks network attacks before they negatively impact an organization's information assets.
- 2 **Integrated VPN** capabilities provide remote access security for mobile workers as well as site-to-site secured connectivity for branch offices.
- 3 **Anti-virus, anti-spam, and content filtering** capabilities can be bundled to protect end-users from malicious content, filter unwanted e-mails, and stop the inappropriate use of the corporate LAN.

## KEY BENEFITS

- Fully managed solution
- Certified installation
- Proactive monitoring
- Software updates
- Secured network connectivity
- Data & VOIP traffic protection



Solutions	Managed Firewall 50	Managed Firewall 400
<b>Performance &amp; Capability</b>		
Managed Devices	Up to 50	Up to 400
Firewall Performance	75 Mbps	100 Mbps
Concurrent Sessions	2,000	32,000
<b>VPN Functionality</b>		
Site-to-site VPN Tunnels	Up to 10	25
Remote Access VPN Tunnels	Up to 10	100
<b>Additional Features</b>		
Content Filtering	Included	Available
Anti-Spam	Included	Available
Anti-Virus	Included	Available




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## Improve Your Bottom Line With Airband Service

Are you tired of waiting on the traditional wireline providers for last-mile access or metro point-to-point circuits? Do you want the ability to easily upgrade your customer's bandwidth without the hassles of equipment upgrades and truck-rolls? Do you want to reduce your monthly local loop costs to improve profitability?

With Airband's wholesale services, you can leverage fixed-wireless services to bypass the legacy wired infrastructure and reach your customers faster and more efficiently. By replacing wired local loops and metro private lines with Airband's wireless services, you will have the advantage of unmatched scalability and cost savings that goes directly to your bottom line. Airband provides a suite of wholesale services that is designed to reduce network costs for carriers.

### ► Wireless Point-to-Point Services:

Airband's Point-to-point offering leverages fixed-wireless technology to deliver private line services quickly, even in the most populated metropolitan areas. We support opportunities from 45 Mbps up to GigE speeds and provide network connections up to 20 miles, if line of sight is clear. We deploy our services in both the licensed and license-exempt spectrum.

### ► Fixed-Wireless Last Mile Access:

Airband's Fixed-Wireless Last Mile Access service bypasses the legacy wired network for faster installation and service delivery. Our service is not bound by T1 or DS3 increments so your customers can have just the bandwidth needed – no waiting.

### ► Fixed-Wireless Internet Access:

Airband provides an internet access service that is uniquely suited to your customers ever-changing needs, whether they are a small business or a Fortune 1000 company.

### More Than Just Bandwidth

Airband delivers its integrated services over a wholly owned last-mile network. Our services are fully managed as Airband provides turn-key service from obtaining the spectrum license to ongoing monitoring and management of the circuits. Our carrier customers are supported by the most responsive channel team in the industry. At Airband we're focused on giving our carrier customers business-class services that are fast to deploy, reliable, and secure.

### ► Fast Installation and Delivery:

Depending on bandwidth and distance, service can be up and running in a couple of weeks, no waiting for months to turn up the circuit network offers a truly diverse path, unaffected by the vulnerabilities of traditional

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networks such as cable cuts that can take days to repair.

► **Ethernet Service:**

Our data service is delivered via an Ethernet connection, making it easy to configure and less expensive to implement. TDM handoff is also available.

► **100% Uptime Guarantee:**

We're the only fixed-wireless provider in the industry that has service level guarantees on jitter, in addition to latency and packet loss.

### Reliability and Security

Airband's network is designed with dual-paths from each base station to its core network ensuring service reliability. Airband's wireless equipment is not configured for open access, meaning that only Airband and the equipment manufacturer are aware of the data transmission and authentication scheme used to initiate communication. Additionally, data is transmitted to and from Airband customers using 128 bit Advanced Encryption Standard (AES), an extra layer of security.

Airband deploys eight levels of signal modulation where the network radios automatically choose the appropriate level to ensure optimal throughput during adverse weather conditions. Airband's roof top radios are designed to withstand up to 120 mph winds, even through the devastating hurricane seasons of recent years.

### Interested in Airband's Wholesale Services?

[Click here](#) to fill out our Partner Inquiry Form

### Wholesale Fixed-Wireless Services Overview

- [Last Mile Access](#) (.pdf)
- [Point-to-Point Private Line](#) (.pdf)
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# Wholesale: Fixed-Wireless Last Mile Access

**Fast to install. Easy to manage. More profitable to the bottom line.**

Are you tired of waiting for last mile service from the traditional wireline providers? Do you want the ability to easily upgrade your customer's bandwidth without the hassles of equipment upgrades and truck-rolls?

With Airband's Fixed-Wireless Last Mile Access, you can bypass the legacy wired network to reach your customers faster and more efficiently. Leveraging WiMAX technology for local access gives you unmatched scalability and cost savings that goes directly to your bottom line.

**Just the Bandwidth Needed – No Waiting:** Our service is not bound by T1 or DS3 increments, so your customers can have just the bandwidth they need, from 1 Mbps up to GigE speeds. In many cases, initial installation takes just a matter of days, not weeks or months.

**Bandwidth Can be Upgraded in Hours:** Increase in bandwidth is simply a phone call away, not additional install or equipment necessary. Upgrades can be in place within hours.

**Ethernet Connectivity:** Our data service is delivered via an Ethernet connection, making it simple for you and your customers to manage. TDM handoff is also supported.

**No Upfront Capital Investment:** There is no additional equipment cost to implement Airband's data services and upgrading circuits may not require equipment upgrade charges.

**Secured Transmissions:** Our wireless hardware utilizes 128-bit Advanced Encryption Standard (AES) to protect end-user data.

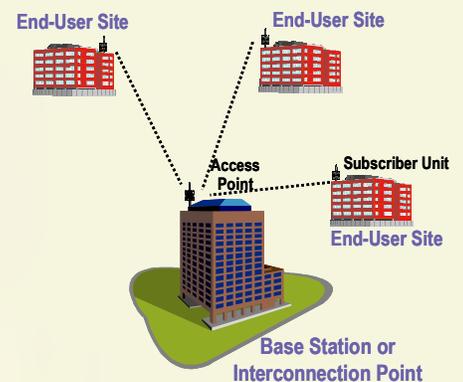
**Reliability You Can Count On:** We're the only service provider in the industry that have service level guarantees on jitter, latency and packet loss.

**Single Point of Contact:** Airband operates and manages our wholly-owned network, so you can expect to work with the most responsive service team in the industry.

## KEY BENEFITS

- Unmatched scalability
- Lightning fast installation
- Ethernet connectivity
- Easy bandwidth upgrade
- 100% uptime guarantee

## Point-to-Multipoint Deployment



# Wholesale: Fixed-Wireless Point-to-Point Service

## Affordable, dedicated WiMAX service with unmatched flexibility

Businesses today are increasing reliant on high-bandwidth connectivity. Whether it's for LAN extensions within an office campus or connecting remote locations, reliable and affordable point-to-point service is mission critical to many organizations.

Airband's Point-to-point offering leverages WiMAX fixed-wireless technology to deliver private line services quickly, even in the most populated metropolitan areas. Like an airplane flying over a crowded freeway, Airband's service bypasses the traffic jams of wireline networks to give customers the dedicated bandwidth they need, over the air.

**Scalable Bandwidth up to GigE Speeds:** Our service is not bound by T1 or DS3 increments, so your customers can have just the bandwidth they need, from 45 Mbps up to GigE speeds.

**Network Connection up to 20 miles:** Our fixed-wireless radios can broadcast signals up to 20 miles, if line-of-sight is clear.

**Fast Installation and Delivery:** Depending on bandwidth and distance, service can be up and running in a couple of weeks, no waiting for months to turn up the circuit.

**Ethernet Service:** Our data service is delivered via an Ethernet connection, making it easy to configure and less expensive to implement. TDM handoff is also available.

**Fully Managed:** Whether the service is deployed in the licensed or license-exempt spectrum, Airband provides turn-key service from obtaining the license to the ongoing monitoring and managing the circuit.

**Secured Transmissions:** Our wireless hardware utilizes 128-bit Advanced Encryption Standard (AES) to protect end-user data.

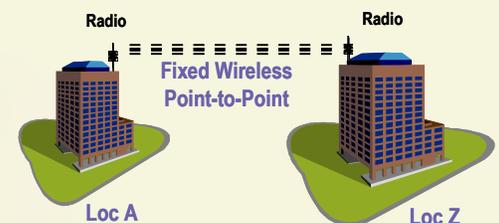
**100% Uptime Guarantee:** We're the only fixed-wireless provider in the industry that has service level guarantees on jitter, in addition to latency and packet loss.

**Single Point of Contact:** Airband operates and manages our wholly-owned network, so you can expect to work with the most responsive service team in the industry.

## KEY BENEFITS

- Available in all Airband markets
- Ethernet connectivity
- Turn-key delivery
- Fully managed
- 24x7 monitoring and support
- 100% uptime guarantee

## Point-to-Point Deployment



# Wholesale: Fixed-Wireless Internet Access

## The internet access service your customers will never outgrow

Airband provides an internet access service that is uniquely suited to your customers ever-changing needs, whether they are a small business or a Fortune 1000 company. With our WiMAX fixed wireless network, Airband literally goes above and beyond existing landline infrastructure to eliminate installation hassles and deliver lightning fast speed – all at affordable rates. And our services can be installed in a fraction of the time generally quoted by traditional providers.

**2 to 20 Mbps Delivered in Days:** With Airband, you can install new service without the hassles and long lead times associated with traditional landline services. Initial installation takes just a matter of days, not weeks or months. Bandwidth can be easily upgraded within hours.

**Capacity to Handle Bandwidth-Intensive Applications:** Airband offers service up to GigE speeds, designed for applications requiring high-bandwidth.

**Ethernet Connectivity:** Our data service is delivered via an Ethernet connection, making it simple for your customers to manage and connect to their LAN.

**Reliability You Can Count on:** Airband deploys eight levels of signal modulation to address fade and our radios automatically choose the appropriate level to ensure optimal throughput.

**Secured Transmissions:** Our wireless hardware utilizes 128-bit Advanced Encryption Standard (AES) to protect end-user data.

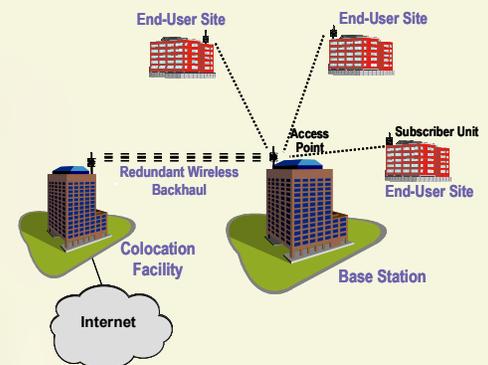
**Ensuring Quality of Service:** We're the only fixed-wireless provider in the industry that has service level guarantees on jitter, latency and packet loss.

**Single Point of Contact:** Airband operates and manages our wholly-owned network, so you can expect to work with the most responsive service team in the industry.

## KEY BENEFITS

- Scalable bandwidth on demand
- Installation in days
- Ethernet connectivity
- 100% uptime guarantee

## Fixed-Wireless Internet Access



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**AT&T Mobile Business**

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## AT&T Mobile Business Agreement

The AT&T Mobile Business (AMB) Agreement extends additional savings to meet the unique needs of small businesses like yours. Leverage small business pricing on AT&T's wireless plans, equipment, and services with an AT&T Mobile Business Agreement.

[Apply Online](#)

### Easy Eligibility

To sign up, your company must have a valid Federal Tax ID Number (aka Employer Identification Number) and at least one (1) [Corporate Responsibility User \(CRU\)](#). As soon as your company has an approved Agreement, you and your employee users can start taking advantage of plans and support designed especially for small businesses.

### Additional 8% Service Discount

As your company grows, you can take advantage of an additional benefit—monthly savings on qualified wireless service. Specifically, when your company maintains a minimum of five (5) or more employee users (**with at least 1 CRU**) subscribing to wireless service, your company can receive an 8% service discount off the monthly service charge of your CRUs' eligible voice and data plans priced at \$30.00 or higher.\*

And, when you and your qualified CRUs save on wireless service, your qualified individually liable employees can save, too. Specifically, employees who activate as [Individual Responsibility Users \(IRUs\)](#) on eligible plans priced at \$30.00 or higher with a 2-year service agreement can also receive an 8% discount off the monthly service charge for their qualified plan(s).\*

\*Other charges and restrictions apply. See [Important Information](#) for details.

### Additional Business Benefits

As a small business customer with an AT&T Mobile Business Agreement, you're automatically enrolled in the AT&T Exclusively Business program. This means you can take advantage of the combined benefits offered under the program (such as waived activation fees for qualified users) and your Agreement. Together, they provide added savings and value that center on your specific business needs.

### Get Started

To get started, [Apply Online](#) or speak to an AT&T representative at 866-429-7222.

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### Qualify For Discounts

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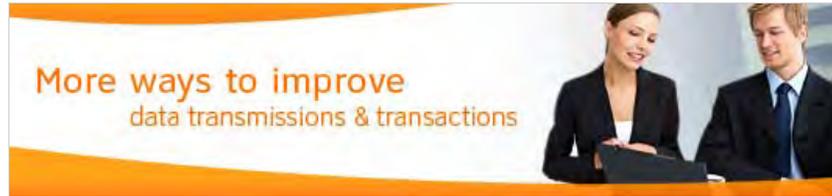
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## Wireless Network Options



Your company's data transmission and transaction processing services get a boost from AT&T, which offers you wireless network options that are customized to fit the unique needs of your organization and industry.

Call 888-296-4561 today to speak with a Business Solutions Specialist and find out how to leverage your business with AT&T's customized wireless network services.

### Explore your options:

#### Wireless Wide Area Network

AT&T's [Wireless Wide Area Network](#) (WWAN) connects you and your team with the nation's fastest 3G network,\* using a variety of secure WAN connectivity options to meet your enterprise networking needs. WWAN provides a cost-effective alternative to wireline solutions for both backup and primary connectivity needs. AT&T can show you the benefits of integrated wireless and wireline solutions through a single provider that lets you keep all of your employees and locations connected.

#### Commercial Connectivity Service

AT&T's [Commercial Connectivity Service](#) (CCS) extends the reach of your corporate network to mobile devices and workers, with security-enhanced back-end connectivity between your WAN solutions and the AT&T mobility network.

\*3G not available in all areas.

### Qualify For Discounts

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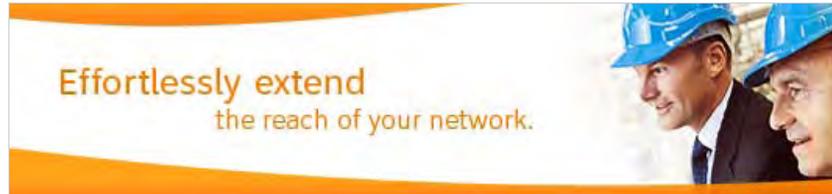
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## Wireless Wide Area Network (WAN)



### Wirelessly enable your enterprise data network for primary and backup connectivity

You face many challenges when you create a Wide Area Network (WAN) solution for your business including how to:

- Get connectivity when and where you need it
- Maintain more secure and reliable network connectivity
- Build a cost effective solution

Wireless WAN Connectivity from AT&T can play a significant role in meeting these challenges by using the AT&T Broadband Connect network in addition to, or as an alternative to, wireline WAN solutions. Wireless WAN Connectivity from AT&T can help your business stay connected, reduce installation intervals, and enable data transmission and transaction processing from almost anywhere your business takes you.

#### Why you should use Wireless WAN connectivity from AT&T

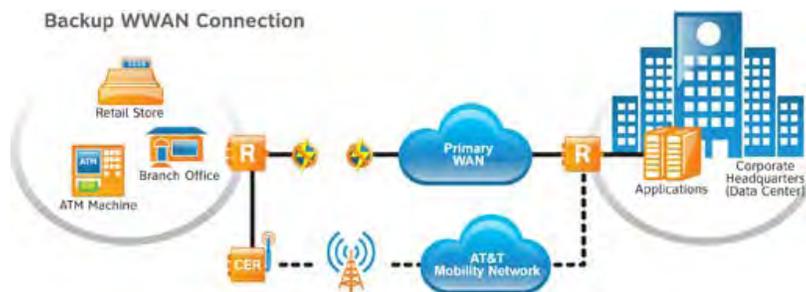
**Backup Connectivity** —Wireless WAN provides diverse, cost effective backup for your data applications, quick deployment for temporary, new or remote locations, disaster recovery response, and mobile workers, as well as consistent network connectivity.

**Primary Connectivity** —Wireless WAN is ideal for primary connectivity for lower bandwidth applications in situations where wired networks are unavailable or infeasible. It is the ideal solution for obtaining connectivity in the locations where you need it, such as:

- Branch offices
- Point of sale locations
- Kiosks and ATMs
- Vehicles
- Remote measurement and monitoring equipment
- Temporary locations

#### How Wireless WAN connectivity from AT&T works

Wireless WAN allows locations to connect to the corporate infrastructure across AT&T Mobility's Broadband Connect network by using a cellular-enabled router and security-enhanced dedicated or Internet connection to your data center or headquarters location. You can use Wireless WAN connectivity as an effective alternative to ISDN for backup connectivity or as the primary solution in places where wireline solutions are not viable options. Both solutions are shown in the following diagrams.



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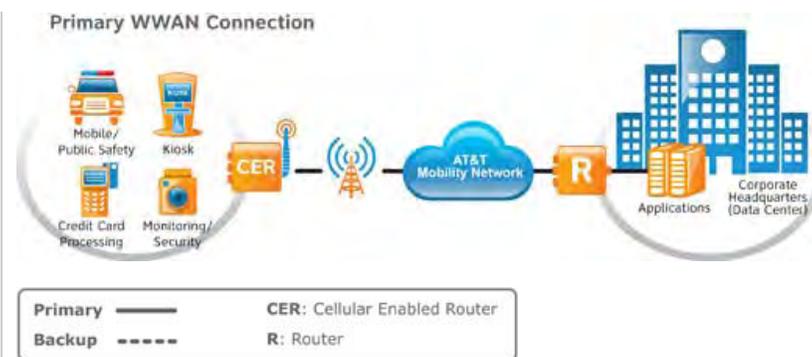
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#### WWAN Demo

See how AT&T's Wireless WAN can keep your network running smoothly.

[View backup demo](#)
[View primary demo](#)



### Why your business needs Wireless WAN connectivity from AT&T

**Fast & Flexible**—A Wireless WAN solution is faster to install than traditional landlines. Plus, if there is a need for connectivity in a temporary location or to change locations, you have the flexibility to relocate quickly and easily.

**True diversity**—Wireless WAN is an ideal backup solution for mission-critical data. When a landline outage occurs, you have the added confidence of knowing that you have true diversity via AT&T's wireless data solution.

**Security**—With a Wireless WAN solution from AT&T you can leverage your existing security infrastructure as well as choose from a number of connectivity options by leveraging AT&T's Commercial Connectivity Service Portfolio. The Commercial Connectivity Service Portfolio provides flexible configurations, thus giving Wireless WAN-enabled locations reliable network-to-network connections to your enterprise data resources.

**Economical**—Wireless WAN connectivity may be less expensive than alternative wireline solutions for telemetry and backup applications. Wireless WAN can also be cost effective for primary connectivity for low-bandwidth applications.

### AT&T Business Connect Data Plans - The right wireless data plan for your Wireless WAN application

Select from a range of data service plans that fit the needs of your Wireless WAN application, including:

**Telemetry\***—provides low-usage pricing options for lower-bandwidth applications.

- Designed for small-burst transactional data
- Includes pooling across devices

Contact your AT&T Mobility Account Team for current rates, terms, and conditions.

**Capped\***—provides low costs in low-usage months, predictable cost protection in higher-usage months.

- Designed for deployments with a small number of sites
- Can be used to determine usage patterns to help identify optimal price plan

MRC	Data (MB)	Overage (KB)
\$29.99	20	\$0.001

**Backup/Primary\***—provides higher-usage price plan options with low overage.

- Designed for high volume backup as well as lower-bandwidth primary applications
- Pooling option available with low additional monthly charge

MRC	Data (MB)	Overage (KB)
\$39.99	50	\$0.00097
\$49.99	250	\$0.0003
\$59.99	1000	\$0.0003
\$99.99	5000	\$0.0003

\*Additional terms, conditions, and restrictions apply. Please see the [Business Connect Plans](#) brochure for complete details.

### Get started

Let AT&T deploy an enterprise-class Wireless WAN solution for your network quickly—wirelessly enabling your enterprise data network for primary or backup connectivity via the largest high-

speed data network in the nation. Learn how Wireless WAN can help your business. Have a business expert [contact you](#).

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## Commercial Connectivity Service (CCS)



### Extend Your Corporate Data Network

The fast pace of business requires enterprises to deploy flexible data applications that can be accessed from anywhere, at any time. AT&T's Commercial Connectivity Service (CCS) extends the reach of your corporate network to mobile devices and workers with security enhanced back-end connectivity between your Wide Area Network (WAN) solutions and the AT&T cellular network.

### A Portfolio of Connectivity Options

With CCS, enterprises can leverage their existing data network infrastructure to implement cost-effective and redundant wireless data infrastructure solutions. These solutions are critical in business continuity and disaster recovery scenarios, and leverage the increased security requirements demanded by today's enterprise applications. Choose between an AT&T MPLS or frame relay solution, a network VPN solution, or utilize your existing frame relay network. Options can be utilized together to create a diverse and redundant connectivity solution.

[View the AT&T Commercial Connectivity Service Diagram](#)

### MPLS

CCS provides customers with the ability to send and receive wireless data traffic from their existing [AT&T Virtual Private Network \(AVPN\)](#) or AT&T IP Enabled Frame Relay Network. Customers currently enjoying the MPLS benefits associated with these offers can have the AT&T cellular network appear as a remote location on their MPLS network.

### Frame Relay

The bundled CCS frame relay offer provided on the AT&T network offers the simplicity of one point of contact for your entire wireless data solution\*, with a single invoice for both CCS-Frame Relay and wireless data charges. Customer-provided frame relay allows you to leverage your existing alternative service provider frame relay network and connect to the AT&T cellular network.

### CCS Network VPN (NVPN)

With a cost-effective NVPN connection, a network-to-network tunnel is established across the Internet using IPSec VPN security. If your enterprise is already utilizing a VPN, you can leverage your existing high-speed Internet connection and Internet VPN appliance to link your corporate network with the AT&T cellular network. By leveraging AES or 3DES Encryption and a Shared Key, sensitive corporate data is safeguarded as it travels across the Internet.

### Security and Business Continuity Options

CCS provides private Access Point Names (APNs) that route, segment and isolate your traffic within the cellular network. Firewall options can be tailored to your application's needs. The solution is supported by data centers with redundant devices and connection paths, backup power and gateway routers configured as redundant pairs. We offer a design that includes link redundancy to multiple data centers with automatic failover.

### Flexible IP Addressing Options

CCS provides access to a comprehensive set of custom IP features, allowing you the ability to manage IP addressing configuration and capabilities to meet the needs of your application. Features include:

- Public and private IP address support
- Static and dynamic IP address support
- Availability of specified IP address ranges
- Advanced firewall and security capabilities

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[IP addressing for the AT&T network](#)

## Wireless WAN

[Why should you use Wireless Connectivity from AT&T?](#)

\*Separate charges apply for CCS Frame Relay and data service.

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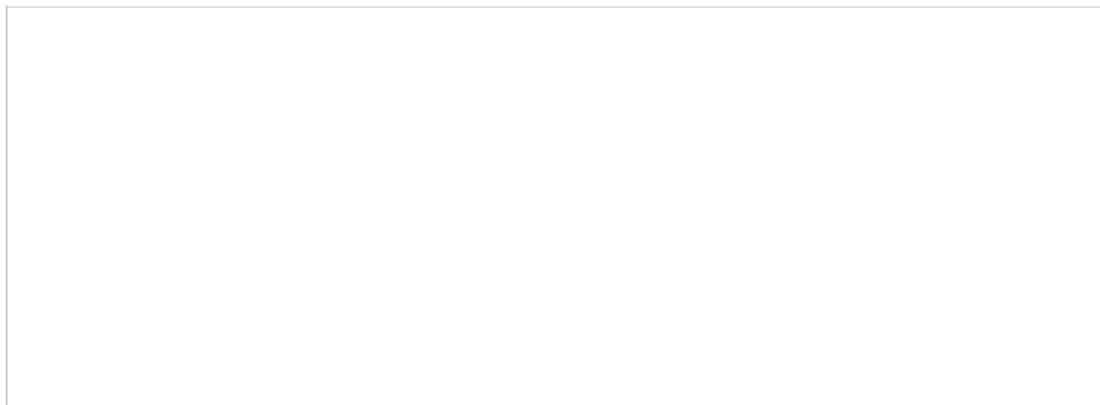
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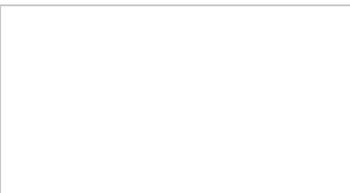
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The plans, features, and rates listed on this site are AT&T's current wireless offers for new wireless customers. Plans, features, and rates may vary for existing wireless customers based on the customer's type of service, rate plan, or device.

### DataPlus & DataPro Smartphone Personal Plans (includes iPhone, PDAs, and BlackBerry®)

Data Plan <sup>1</sup>	Monthly Service Charge <sup>2,3,4,5,6,8</sup>	Recommended Data Uses	Domestic Included Data Limit <sup>10</sup>	Additional Domestic Data	Int'l Included Data Usage	Int'l Data Usage (in other countries)	Additional Int'l Data per KB (in select countries) <sup>2</sup>
DataPlus Personal	\$15.00 <sup>7</sup>	Personal Email Internet Browsing Consumer Applications	200 MB	\$15/200 MB	N/A	N/A	N/A
DataPro Personal	\$25.00	Personal Email Internet Browsing Consumer Applications	2GB	\$10/GB	N/A	N/A	N/A
DataPro Personal with Tethering	\$45.00	Personal Email Internet Browsing Consumer Applications	2 GB	\$10/GB	N/A	N/A	N/A

### DataPlus & DataPro Smartphone Enterprise Plans (includes iPhone, PDAs, and BlackBerry®)

Data Plan <sup>1</sup>	Monthly Service Charge <sup>2,3,4,5,6,8</sup>	Recommended Data Uses	Domestic Included Data Limit <sup>10</sup>	Additional Domestic Data	Int'l Included Data Usage	Int'l Data Usage (in other countries)	Additional Int'l Data per KB (in select countries) <sup>2</sup>
DataPro Enterprise	\$40.00	Corporate & Personal Email Internet Browsing Intranet Access	2GB	\$10/GB	N/A	N/A	N/A

DataPro Enterprise with Tethering	\$60.00	Corporate & Personal Email Internet Browsing Intranet Access	2 GB	\$10/GB	N/A	N/A	N/A

### DataConnect Plans

Data Plan <sup>1</sup>	Monthly Service Charge <sup>2,8</sup>	Recommended Data Uses	Domestic Included Data Limit	Additional Domestic Data	Int'l Included Data Usage	Int'l Data Usage (in other countries)	Additional Int'l Data per KB (in select countries) <sup>2</sup>
DataConnect	\$20.00	Corporate and Personal Email Internet Browsing Internet Access	10MB	\$0.0019/KB	N/A	N/A	N/A
	\$35.00 <sup>7</sup>	Corporate and Personal Email Internet Browsing Internet Access	200MB	\$.10/MB	N/A	N/A	N/A
	\$60.00	Corporate and Personal Email Internet Browsing Internet Access	5GB	\$0.05/MB	N/A	N/A	N/A
Pooled DataConnect <sup>10</sup>	\$23.00	Corporate and Personal Email Internet Browsing Internet Access	10MB	\$0.0019/KB	N/A	N/A	N/A
	\$44.00	Corporate and Personal Email Internet Browsing Internet Access	50MB	\$0.00097/KB	N/A	N/A	N/A

## International Data Plans and Features

Data Plan <sup>1</sup>	Monthly Service Charge <sup>8</sup>	Recommended Data Uses	Domestic Included Data Limit <sup>10</sup>	Additional Domestic Data	Int'l Included Data Usage	Int'l Data Usage (in other countries)	Additional Int'l Data per KB (in select countries) <sup>9</sup>
Data Global Add-on to Domestic DataPlus, DataPro or DataConnect Plans	\$24.99	Depends on Domestic Data Plan	N/A	N/A	20MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
Data Global Add-on to Domestic DataPlus, DataPro or DataConnect Plans	\$59.99	Depends on Domestic Data Plan	N/A	N/A	50MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
Data Global Add-on to Domestic DataPlus, DataPro or DataConnect Plans	\$119.99	Depends on Domestic Data Plan	N/A	N/A	100MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
Data Global Add-on to Domestic DataPlus, DataPro or DataConnect Plans	\$199.99	Depends on Domestic Data Plan	N/A	N/A	200MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
DataConnect North America	\$109.99	Corporate and Personal Email Internet Browsing Internet Access	5GB	\$.05/MB	100MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
DataConnect Global	\$139.99	Corporate and Personal Email Internet Browsing Internet Access	5GB	\$.05/MB	100MB (in select countries) <sup>9</sup>	\$.0195/KB	\$.005/KB
DataConnect Global	\$229.99	Corporate and	5GB	\$.05/MB	200MB (in	\$.0195/KB	\$.005/KB

		Personal Email Internet Browsing Internet Access			select countries) <sup>9</sup>		

Messaging Bundles are also available to add on to data plans:

<b>Messaging Bundle Monthly Service Charge</b>	<b>Number of Included Messages*</b>	<b>Price per Additional Message*</b>
\$5.00	200	\$.10
\$15.00	1,500	\$.05
\$20.00	Unlimited	N/A

\*Includes text, picture, video, and instant messaging. International messages and premium content not included.

For coverage information and maps, please see a sales representative or visit [att.com/wirelesscoveragemap](http://att.com/wirelesscoveragemap) or [att.com/wirelessbroadbandconnect](http://att.com/wirelessbroadbandconnect).

1. See Terms and Conditions for details on voice calling prohibited/permissible uses, usage limits and additional eligibility, billing, and other restrictions. AT&T also imposes the following charges: **A Regulatory Cost Recovery Charge of up to \$1.25 to help defray its costs incurred in complying with obligations and charges imposed by State and Federal telecom regulation; State and Federal Universal Service charges; and surcharges for government assessments on AT&T. These fees are not taxes or government-required charges.**
2. Messaging is available at the applicable Messaging Bundle rates or Pay-Per-Message rates. Eligible messaging-capable device required.
3. DataPlus Personal and DataPro Personal plans include either Xpress Mail or BlackBerry Internet Service (BIS) based on device selected. Xpress Mail and BIS provide access to personal email, such as Yahoo!® and AOL®. Xpress Mail also provides individual access to corporate email, such as Microsoft Exchange or Lotus® Domino.
4. Plan requires that an eligible wireless voice plan be activated and maintained on the same device.
5. Access to Mobile Video included where available—see [www.att.com/cv](http://www.att.com/cv) for availability. Additional charges for premium content apply. Only available with data plan if eligible voice plan is also activated and maintained on the same device. Compatible 3G smartphone required. Not available with LaptopConnect devices.
6. Qualifying DataPlus, DataPro and DataConnect Plans include access to AT&T Wi-Fi Basic service. Your device must be Wi-Fi capable. Other restrictions apply. See [www.attwifi.com](http://www.attwifi.com) for additional services, details and locations. AT&T Wi-Fi service use is subject to applicable AT&T Wi-Fi Terms of Service and Acceptable Use Policy. See [www.att.com/attwifitosaup](http://www.att.com/attwifitosaup) for further details. International Roaming not included.
7. With respect to both Corporate Responsibility Users (CRUs) and Individual Responsibility Users (IRUs), the Service Discount described in your AT&T business agreement is NOT available on the DataPlus Personal \$15 and the DataConnect \$35 plans. DataPlus Personal \$15 plan not available for Corporate Responsibility Users.

8. On DataPlus, DataPro or DataConnect Plans with a monthly megabyte (MB) or gigabyte (GB) allowance, once you exceed your monthly allowance you will be automatically charged for overage as specified in the applicable rate plan information (generally a flat fee for any portion of additional MB or GB allowances to be used during the month). All data allowances, including overages, must be used in the billing period in which the allowance is provided or they will be forfeited.

9. Data usage only for use within "roam zone" comprised of select carriers. DataConnect North America roam zone comprised of select carriers in Canada and Mexico. DataConnect Global and Data Global roam zone currently comprised of select carriers in "select countries". Countries and carriers within the roam zone are subject to change at any time without notice (see [att.com/dataconnectglobal](http://att.com/dataconnectglobal) for most current, complete roam zone list). See [Wireless Data Service Terms and Conditions](#) for further details.

10. Only available to qualified Corporate Responsibility Users (CRU) under an eligible AT&T business/government agreement.

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**CANADA AND INTERNATIONAL ROAMING:** Additional data for Canada roaming per KB is \$0.015; International roaming per KB is \$0.0195.

**MESSAGING:** Unless otherwise specified in your wireless plan, the default rate is \$0.20/message for Text/Instant Messages and \$0.30/message for Picture/Video Messages. Charges for international messages from the U.S. are \$0.25/message for Text Messages and \$0.50/message for Picture/Video Messages. Charges for messages sent while roaming internationally are \$0.50/message for Text Messages and \$1.30/message for Picture/Video Messages. Additional charges for premium content apply. 1,024 kilobytes (KB) = 1 megabyte (MB).

**MISCELLANEOUS:** Separate data plan not required for data usage. Additional eligibility, billing, usage and other restrictions and terms apply. See General Terms and Conditions and applicable Additional Terms inside. See [Wireless Data Service Terms and Conditions](#) for details.

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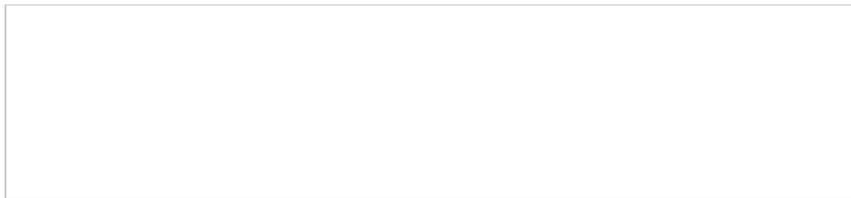
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## Wireless Federal Solutions from AT&T



More than 1,200 agencies trust wireless from AT&T. Our reliable data and voice communications keep the wheels of government turning 24 hours a day, 7 days a week. You can depend on us to provide:

- **Security compliance** with federal directives, including [FIPS140-2](#) and HSPD-12, as well as the Federal Information Security Management Act (FISMA).
- **Proven reliability** with 24-hour network surveillance, service status and quality monitoring, disaster-recovery programs, superior cell site density, and a dedicated help desk for government clients.
- **High-speed, high-quality performance** from our next-generation GPRS/EDGE digital network, based on the worldwide GSM platform. In the U.S. our average data speed of 70-135 Kbps is nearly twice the rate of older CDMA technology used by other carriers.
- **Fast, no-hassle procurement** of AT&T network services (plus software and hardware from our third-party partners) through the [GSA Network Universal or Networx Enterprise contracts](#), GSA IT Schedule 70 (contract [#GS-35F-0297K](#), Special Item #132-53) and other federal government contracts.
- **Predictable pricing** with flexible rate plans to help you allocate budgets and stick to them.
- **Reduced total cost to you** because AT&T owns and manages the wireless network—this means less time spent on implementation and administration by your IT personnel.

### How it will work for you

Everything we do at AT&T is designed to make your mobile communications secure, dependable and cost effective. But the real story is how much more your agency can accomplish—especially with mobile data—when your employees are on the move.

[Learn more about specific solutions in your area of government.](#)

[Learn more about the IT capabilities of AT&T Government Solutions.](#)

### Qualify For Discounts

Government employees may be eligible for personal mobile service at a discounted rate.

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Federal, state, and local contracts for simplified purchasing.

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### M930 Vehicle Mount Phones

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## Wireless DoD Solutions from AT&T



AT&T provides worldwide service that meets the stringent security standards set by the Department of Defense (DoD). From soldiers on the field to officials at the Pentagon, it is critical that DoD personnel stay connected with reliable voice and data communications, which is why so many DoD personnel choose AT&T.

- **Uncompromising network security** that complies with the Federal Information Security Management Act (FISMA), [FIPS140-2](#) (all four levels of cryptography), and the HSPD-12 identification standard for federal employees and contractors.
- **Additional security protection** with entire groups of products and services that meet or exceed government requirements:
  - PKI, CAC Reader Solutions, and 8100.2 treatment of data addresses
  - Data in motion with 140-2 encryption from end to end
  - Secure Mobile Internet Messaging (S/MIME)

### Providing more than top security

Robust security may be the biggest reason a DoD customer chooses AT&T, but it's far from the only reason. Wireless from AT&T also provides:

- **Proven reliability** with 24-hour network surveillance, service status and quality monitoring, disaster recovery programs, superior cell site density, and a dedicated help desk for government clients.
- **High-speed, high-quality performance** from our next-generation GPRS/EDGE digital network, based on the worldwide GSM platform. In the U.S., our average data speed of 70-135 Kbps is nearly twice the rate of older CDMA technology used by other carriers. Our choice of UMTS/HSDPA as our 3G network is also being deployed worldwide in more than 65 countries.
- **Fast, no-hassle procurement** of AT&T wireless network services (plus software and hardware from our third-party partners) through the [GSA Networx Universal or Networx Enterprise contracts](#), the Army Air Force BPA, the Navy / Marine Corps FISC contract, and GSA IT Schedule 70, (contract [#GS-35F-0297K](#), Special Item #132-53).
- **Predictable pricing** with flexible rate plans to help you allocate budgets and stick to them.
- **A complete solution** that includes not only our global network but also access to our trusted third party partners. We team up with hardware and software providers as well as system integrators who know how to meet DoD requirements.
- **Reduced total cost to you** because AT&T owns and manages the wireless network—this means less time spent on implementation and administration by your IT personnel.

Nothing is more important to national defense than secure, dependable communications—especially when things are moving fast. For mobile data and voice, wireless from AT&T is the best choice.

[Learn about our Secure Hardened solutions.](#)

[Learn more about the IT capabilities of AT&T Government Solutions.](#)

### Qualify For Discounts

Government employees may be eligible for personal mobile service at a discounted rate.

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Federal, state, and local contracts for simplified purchasing.

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## Applications: Innovative Business Solutions

### A Comprehensive Solution Portfolio

Whether voice or data, AT&T has a comprehensive portfolio and the simplest choice of innovative wireless business solutions.

**For Business Leaders**, our solutions can deliver rapid, tangible business results by empowering your mobile workforce.

- **For IT Organizations**, our solutions can provide a consistent platform on which you can design, deploy, manage and support mobile applications. We're with you every step of the way.
- **For Mobile Workers**, our solutions provide ease of use, trouble-free maintenance and robust features to keep you wirelessly connected and productive away from the office.

### AT&T's Wireless Business Solutions:

- Vertical and cross industry solutions
  - Ecosystem of world-leading technology and professional services providers
  - [Certified packaged solutions](#) and [development tools](#)
  - [Custom solutions](#) for wirelessly enabling industry-specific business processes
  - Wireless access to core enterprise applications
- Laptop mobility delivers high-speed wireless access to the Internet, intranets and enterprise applications
- Email and Messaging solutions for wireless access to Microsoft® Exchange and Lotus Notes®
- Flexible voice solutions for enhanced business productivity
- Wireless devices for every need
  - Flexible form factors (PC Card modems, Smartphones, ruggedized devices)
  - Tested for network compatibility with the AT&T Network
- [Mobile Device Management](#) solutions that provide IT and security managers with tools to help them manage and protect devices
- Back-end network connectivity and performance optimization options
- Corporate programs
  - Tailored discounting programs
  - Rate plans designed specifically for business

Ask a AT&T representative to [schedule a Wireless Strategy Workshop](#) with your business and IT stakeholders. Together we will determine the best possibilities for wirelessly enabling your business and help plan your wireless strategy.

Check out our [Business Center](#) to see all that AT&T can offer your business.

### Qualify For Discounts

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### Spotlight on Savings

See the latest wireless deals and phones from AT&T.



Check it out

### AT&T Developer Program

- [Certified Enterprise Solutions](#)
- [Certified Wireless Devices/Modules](#)
- [Consumer Software Developers](#)
- [Custom Mobile Business Applications](#)

### Next Steps

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## Service: Enterprise-Grade Service Delivery

### Dedicated to Business Customers

It's our business to make wireless technology work for you—seamlessly—to help you manage your wireless environment efficiently and drive down total cost of ownership (TCO). This is why we have a relentless focus on simplified account management, dedicated customer care, flexible reporting and billing, easy ordering and fast, accurate provisioning.

Order what you need from our friendly, feature-rich AT&T Premier Platform. Go online to drill down on costs and optimize wireless spend across business units. Talk with your dedicated local account manager or data support specialist. Experience what you've come to expect from the leader in wireless business solutions.

### Dedicated Customer Care and Support for Your Business

AT&T has created a unique business customer care model focused specifically on serving our business customers.

- Single point of contact for account management works with you to maintain and develop strategic technology planning throughout your markets
- Dedicated business care organization committed to delivering best-in-class national service solutions
- Enterprise Voice and Data Help Desks provide a team of wireless solutions experts with broad expertise to support your mobility deployments
- Project management and deployment support resources and tools that can scale to the largest data and voice wireless projects
- \$250 million invested in business-specific systems. The goal of every system is to create a superior customer experience and tailor our processes to B2B:
  - Single relational database for customer contract management
  - Fully integrated provisioning systems for flow-through order management
  - Nationally consistent business-specific billing

### Flexible Corporate Programs

With discounted pricing, calling plan choices and powerful wireless management tools, AT&T delivers the features that you demand for your business. AT&T Corporate Digital Advantage is a comprehensive wireless program with the flexibility to suit businesses of all sizes.

- Flexible discounting options
- Easy to implement and administer
- Include a vast array of plans and solutions for all your users' voice and data needs—local, national and international
- Special equipment pricing
- Simplified wireless management, ordering and provisioning
- Superior Account Service

### Online Tools to Help Increase Productivity, Enable Controls and Manage Wireless Costs

AT&T offers a comprehensive set of e-commerce applications that help simplify and streamline the procurement and management of your organization's wireless program.

- **AT&T's Premier Platform Wireless Management Center (WMC)** is targeted to telecommunication managers, buyers, division managers who operate, manage or control wireless programs for their organizations. [More details](#)
- **AT&T's Premier Platform** offers robust and flexible procurement solutions for corporations and government agency employees where wireless service and financial responsibility is established in the name of the business or agency. [More details](#)
- **AT&T's Premier Individual Platform** is a wireless products and services procurement application designed for corporations and government agency employees where service and financial liability is assumed by the employee. [More details](#)

### Enterprise on Demand—A Unique Wireless Program for Customers with Very Large Wireless Data Deployments

AT&T has created a unique program for customers with very large data deployments, providing a comprehensive online environment for ordering and real-time activation, online trouble ticket

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- Great offers on the latest phones

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management and reporting—everything you need to manage a large-scale, mission-critical wireless data solution.

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## Network: Robust Network and Security

### A Better Network Means Better Business

#### The AT&T Network

The AT&T Network covers over 300 million people and is growing, creating a solid platform to deliver services and solutions. For mobility it offers the nation's fastest 3G network and with the deployment of 7.2Mbps markets, the nation's fastest network is getting faster!

Our network is built on the worldwide GSM standard—the most widely deployed network standard in the world with 89% share, or over 3.6 billion subscribers worldwide. GSM provides:

- Economies of scale—wider range and lower cost of solutions and devices
- Global compatibility—more international roaming potential
- Ease of integration with emerging/new standards like LTE (Long Term Evolution)

AT&T is spending over 19 billion dollars in 2009, 5 billion each year for the past five years on the mobility network. Here's what AT&T is doing to improve voice and data communication for 2009:

- Nearly 2,000 additional 3G cell sites
- Over 20 new major metro markets for 3G
- Announcement of 6 major markets for faster 3G speeds/7.2Mbps, including: Charlotte, Chicago, Dallas, Houston, and Los Angeles and Miami
- A national deployment of 850MHz spectrum for 3G to provide improved in-building penetration and overall improved coverage
- Plans to test and deploy the next generation of wireless standards—LTE (Long Term Evolution) promising faster speeds, but still in the GSM standards as our 2G and 3G technology

#### Fastest 3G in the Nation

Built on the global standard for wireless, the AT&T 3G network delivers the high speed and coverage your business needs to keep work flowing when you're on the road. High Speed Packet Access (HSPA) provides for fast speed for our mobility customers over earlier 3G/UMTS releases. Using 7.2Mbps, customers with capable LaptopConnect products or phones, like the iPhone 3G S, can experience the 7.2 speeds in coverage areas.

With the enhanced 3G network, you'll enjoy even better mobile broadband access to email, Internet and other applications.

- Available in most major metropolitan areas, providing typical download speeds of 700 Kbps to 1.7 Mbps and typical upload speeds of 500 Kbps to 1.2 Mbps on compatible devices for our current 3G network\*
- Additional faster speeds available for 7.2 capable devices, depending on network conditions and availability\*\*
- The only 3G technology that supports simultaneous voice and data with one device - your work doesn't stop when you need to talk
- Wireless service is available in select metropolitan markets
- Supported by AT&T Communication Manager software for LaptopConnect products

#### Wi-Fi another option for wireless users

AT&T has the largest Wi-Fi network managed directly by a national wireless carrier. We offer over 25,000 U.S. hotspots at no additional charge to your AT&T data plan\*\*\*; including locations such as: Starbucks stores, Barnes and Noble stores, airports and participating McDonald's restaurants. AT&T mobility data plan subscribers can easily switch to Wi-Fi through AT&T Connection Manager software, designed for LaptopConnect and enjoy the advantages of being connected while enjoying a cup of coffee or waiting for a flight.

In addition, AT&T offers 100,000 Wi-Fi locations in over 75 countries that can be accessed. Additional data charges may apply.

#### Enhanced Security and Connectivity Options

Whether wireless or wired, network security is a primary concern for businesses. Today's increasingly sophisticated security threats make implementing superior wireless security even more of a necessity. Network-to-network connectivity provides performance, security and

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#### Before You Go

Be sure to activate your international roaming or long distance service. Just call 1-800-331-0500 or visit a [retail store](#).

#### AT&T has the nation's fastest 3G network\*

\*3G not available in all areas.

[Learn more](#)

reliability necessary to enable wireless applications. AT&T provides you with a range of connectivity options and can assist in designing an end-to-end security solution. For more information visit <http://developer.att.com>.

Check out our [Business Center](#) to see all that AT&T can offer your business.

Speed and uninterrupted use of the service are not guaranteed. Coverage not available everywhere—visit the [AT&T coverage viewer](#) for details. Service defaults to national EDGE/GPRS network, where available, if AT&T 3G network is not available.

\*Referenced speeds require an HSDPA 3.6Mbps/HSUPA capable device with Receive Diversity and/or Equalizer. AT&T is deploying HSUPA throughout the 3G footprint, HSUPA may not currently be available in all 3G areas. BroadbandConnect speed claims based on our network tests without compression using 3MB data files for download and 2MB data files for upload. 3G devices not enabled with HSUPA support typical upload speeds of 220-320Kbps based on our network tests without compression using 500KB data files for upload. Actual throughput speed varies.

\*\*7.2Mbps speeds have yet to be evaluated.

\*\*\*Some data plans may not include free access to the AT&T Wi-Fi hotspot network.

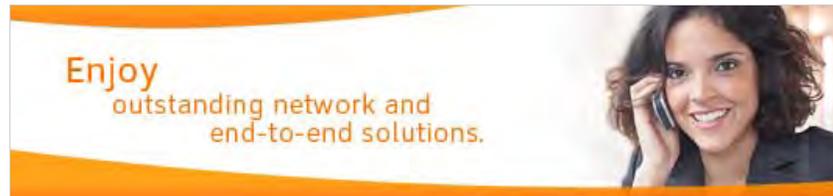
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## DataConnect



### Data Plans for Business

The top businesses in America trust AT&T for wireless service.

### Partner with the leader in wireless

AT&T is the leading wireless provider in America, serving 95% of the Fortune 100 and more than 80% of the Fortune 500. You can experience wireless with a superior network, global reach, and end-to-end solutions.

### Mobile access to critical information

AT&T helps you enhance productivity, improve responsiveness, and increase customer satisfaction when you stay connected with your work. Access corporate and ISP email, calendar, contacts and address book. View attachments and send documents, browse the wireless Internet, and stay connected to your office wirelessly. AT&T has solutions that work for you.

### Our network has you covered

We have the largest wireless digital voice and data network in America, with the most cell sites and the most spectrum of any U.S. wireless carrier. [Learn more about the AT&T Network.](#)

### Network connections and security options

AT&T offers enterprise customers a number of options for extending host connectivity to mobile users or devices via Frame Relay or Network Initiated VPN. Ask your sales representative for more information.

### The right wireless data plan to fit your business

Refer to the [Available Data Plans Comparison Chart](#) for details.

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## LaptopConnect—Wireless Laptop Solutions

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Fast as Lightning on the nation's fastest 3G\* network

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**LaptopConnect Cards**  
Use a laptop wireless card to connect to AT&T's wireless network.

[Learn more](#)  
[View the LaptopConnect demo](#)

**Integrated Laptops & Devices**  
The AT&T Mobility Network—now available as a built-in option on select laptops including:

Dell™ HP Fujitsu  
Lenovo™ Panasonic

[Integrated Laptop Details](#)

**Laptops**  
Take advantage of a laptop solution with AT&T built-in wireless connectivity.

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**Networks**  
Faster download and upload speeds mean you can do more when you're on the road.

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**Connectivity Software**  
Free software that makes it easy to manage your connection to AT&T's wireless networks.

[Communication Manager](#)  
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## Mobile Device Management



### Overview

The business benefits of deploying mobile devices are plentiful, but IT managers have been challenged to manage such devices—until now. Comprehensive mobile device management and security solutions from AT&T and AT&T solution providers help organizations simplify management, better secure mobile devices, and reduce costs.

### Mobile Device Management Solutions for IT

Mobile device management and security solutions empower IT managers to set policies, lockdown applications, expand on-device encryption, distribute software, conduct device diagnostics, understand inventory, and more. These comprehensive, scalable device management and security solutions provide IT managers with the capabilities to help protect corporate data, manage centrally, and reduce resource requirements.

### Mobile Device Management Solutions for Business

Mobile device management and security solutions offer opportunities for enhanced end user productivity and lower support costs. Additionally, mobile device management solutions help ease the distribution process for line of business applications and some provide Mobile VPN capabilities—providing end users with access to important corporate data and applications for superior productivity and increased responsiveness.

### Mobile Device Management Solutions

#### Device Protection & Control

AT&T helps you meet the challenge of managing the demands of security and control of your smartphones. With AT&T Device Protection & Control, you can now manage and help protect your devices over-the-air through an integrated, AT&T hosted web console.

[Learn more](#)

#### Microsoft System Center Mobile Device Manager

With Microsoft® System Center Mobile Device Manager (MDM), AT&T customers with Windows® Mobile 6.1 smartphones now have access to enhanced security features, device management, and mobile VPN capabilities.

[Learn more](#)

#### Other Solutions

Mobile device management capabilities are also included with [BlackBerry® Enterprise Server](#) and [Good™ Mobile Messaging](#). These solutions provide IT departments with simplified management and centralized control of smartphones while enabling wireless email.

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▼ [IP Addressing](#)[Additional Custom Capabilities](#)

## Wireless IP Options for Mobile Deployments



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### Flexible IP Solutions to Meet Your Changing Needs

With networking needs constantly changing, you need wireless IP options that are flexible enough to support your unique IP requirements and will allow you to extend your software applications wirelessly. Through AT&T custom IP addressing, we can help you deploy an IP configuration to your mobile devices on the industry-leading AT&T cellular network.

### Benefits of AT&T Custom IP Addressing

The use of custom IP addressing solutions allows you to tailor your company's wireless IP solution to meet the security and IP addressing requirements of your applications.

With all custom solutions, you choose the type of connection between your network and the AT&T cellular network. Choose between an AT&T MPLS solution, a direct Frame Relay connection, or a secure Internet connection, depending on your data transport requirements. From there, choose the custom IP option that works best for you:

**Private IP addresses:** This is the default IP addressing solution on the AT&T Data network.

**Public IP addresses:** Public IP addresses can be dynamically assigned from a designated range of addresses for a specific business.

**Static IP addresses:** Business-critical applications that require a fixed IP address can take advantage of AT&T static IP addresses.

**Customer-provided IP addresses:** If you decide to provide your own Public IP address block for your mobile data configuration, you will essentially extend your company's wide area network to include the AT&T cellular network. This allows for simpler firewall configuration, as well as mobile device identification.

### Additional Custom Capabilities

In addition to specifying the type of IP addresses assigned to the mobile devices and the connectivity method, [custom IP solutions](#) can also provide data traffic flow control benefits.

Available options include:

- Restricting general Internet access
- Allowing or disallowing mobile terminated data
- Allowing or disallowing direct mobile-to-mobile data sessions

### Pricing Structure

	One-Time Setup Charge	Monthly Service Charge
Private IPs—dynamically assigned*	No charge	No charge
Static Public IPs	\$500	\$3 per static IP address
Dynamic Public IPs	No charge	No charge
Customer-provided public IPs*	None	None
Custom APN setup	\$500	None
Dedicated APN setup	\$250	None

\* Custom APN required.

---

### Determining the right IP solution.

In order to understand the application requirements that will drive the appropriate IP management solution, there are several questions that you need to ask yourself.

#### What type of application will be used?

This determines the degree of customization necessary, and whether IP addresses are:

- Private versus public
- Dynamic versus static
- From a specified range, and if so, whether you or AT&T supply the range

#### What type of data transport is required between your network and the AT&T cellular network?

This determines the approach for connectivity between your corporate network and the core AT&T cellular network. In addition to plain Internet transport, AT&T offers Commercial Connectivity Service, which provides MPLS, Frame Relay, and Network VPN connectivity options between your corporate network and the AT&T cellular network.

#### What are your application security requirements?

This determines:

- Whether the network should allow your mobile devices to have access to mobile terminated communications or mobile-to-mobile communications
- Whether the network should allow your mobile devices to communicate with the Internet
- The allowed range of IP addresses of hosts on external networks

These questions should be discussed with your AT&T account team to make the right decision to ensure that your application is optimized for the AT&T network.

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### BlackBerry Solutions

[AT&T Global Smart Messaging Suite](#)

[Good Mobile Messaging TM](#)

[Microsoft® Direct Push Wireless Email](#)

[Enterprise Paging](#)

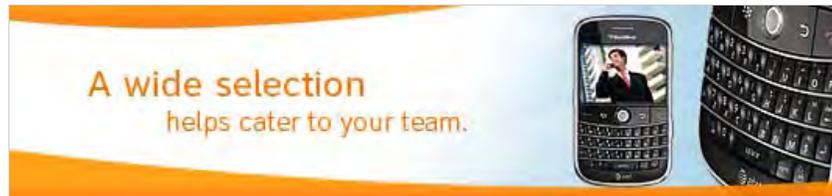
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[WIC Pager](#)

[Voicemail To Text](#)

[Email for Non-smartphones](#)

## BlackBerry® Solutions



### Advantages of BlackBerry® Service from AT&T, the leading service provider of BlackBerry

#### BlackBerry: Committed to Wireless

Wireless communication is no longer a luxury for business. Across industries and workforces of all sizes, mobility is a necessity. BlackBerry provides the solutions you need to stay in touch with information on the go—from email, phone, and applications to the Internet, maps, and more.

#### AT&T and BlackBerry: A Powerful Combination

Whether checking email, making calls, sending text messages, or accessing the Internet, businesses and mobile workforces stay connected with AT&T and BlackBerry. Choose the AT&T plan that's right for you and your team and get access to a large selection of BlackBerry devices with advanced features and services like:

- **3G network:** Enjoy faster access to the web and simultaneous voice and data capabilities on the AT&T 3G network.\*
- **Direct-push technology:** Get email, tasks, calendar items and more delivered instantly to your phone.
- **AT&T Wi-Fi Hot Spots:** Take the Internet with you and enjoy access to 20,000+ AT&T Wi-Fi Hot Spots nationwide.\*\*
- **GPS and AT&T Navigator:** Get where you're going with voice-guided, turn-by-turn directions, maps, and more.\*\*
- **International coverage:** Travel with confidence knowing you've got data roaming in 195 countries and voice roaming in more than 220 including South Korea and Japan.
- **Visual Voicemail:** See voicemail messages in an easy access list with details like caller, message length, date, and time—then listen, pause, fast-forward, delete, reply, and more.\*\*
- **Bluetooth®:** Connect with electronic devices to talk with your hands-free, stream music wirelessly to speakers, and more.

[View the full line of BlackBerry devices available from AT&T.](#)

#### Designed With Business in Mind

With a single focus on wireless, BlackBerry is built to offer solutions that meet the mobile needs of businesses of all sizes and to support the entire team—from decision-makers who mobilize workforces to end users who stay productive using BlackBerry devices and applications.

- **IT professionals** trust BlackBerry's security-enhanced, certified solutions and the flexibility to grow and build value in the future.
- Business decision-makers count on BlackBerry's innovation, powerful productivity tools, and the freedom it offers to enable collaboration among teams.
- End users enjoy a wide selection of devices, the latest applications, and access to email, voicemail, contacts, their network, and more.

[Learn about BlackBerry Enterprise Solutions](#)

\*3G not available in all areas.

\*\***AT&T Wi-Fi Hot Spots:** Based on non-municipal company owned and operated hotspots. A Wi-Fi enabled device required. Other restrictions apply. See [www.attwifi.com](http://www.attwifi.com) for additional services, restrictions and locations. **AT&T Navigator:** Separate subscription required. **International Roaming:** Special credit and tenure restrictions and add'l charges may apply. Requires compatible device. Availability, quality of coverage, and services while roaming are not guaranteed. See A

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href="http://www.att.com/global" target="\_blank">www.att.com/global for updated countries, charges and terms. **Visual Voicemail:** Data plan required for AT&T Visual Voicemail. Data used in replying to and forwarding voicemail messages via SMS, MMS or email is counted against your data plan. Applicable data charges apply if data plan limits have been exceeded. International data charges apply to receiving, replying to and forwarding voicemail messages while roaming internationally.

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## AT&T Global Smart Messaging Suite

powered by *Soprano*

The AT&T Global Smart Messaging Suite is a powerful web-based application designed for large enterprise messaging and communication. The AT&T Global SMS service enables 2-way communication (via SMS or e-mail), and can reach employees and opted in consumer subscribers at most wireless carriers globally. AT&T can help organizations get started using domestic short codes for cross-carrier SMS messaging, and the AT&T platform can also be extended on a global scale for messaging to employees and consumers worldwide.

Key features of AT&T Global SMS:

- 2-way cross-carrier SMS, including mobile-originated text messaging
- SMS reach to subscribers in the U.S., Canada and select international countries
- Software as a Service (web-based service)
- E-mail messaging capabilities
- Enterprise-wide permissions control (hierarchical and multi-workgroup)
- Archival of all messaging activity\*
- Reporting and analysis tools
- Tools to integrate with existing messaging systems and applications
- 24/7 technical support provided by AT&T\*\*



### Powerful administrative control:

- Define multi-workgroup hierarchy
- Set role-based user permissions
- Control user credits and costs
- Manage user licenses
- Specify applications for users
- View reporting and analysis
- Build templates and canned messages
- Schedule & automate messages

The platform can be integrated with existing systems or used as a stand-alone web-based application for a wide variety of applications, including:

- Workforce management and communication
- Mobile marketing campaigns via SMS and e-mail
- Mobile commerce
- HR functions, job placement and staffing
- Shift confirmations, scheduling
- Reminders
- Voting, polling, surveying, sweepstakes

Beyond the core platform functionality, the AT&T Global Smart Messaging Suite offers several optional pre-configured applications that can be leveraged to enable additional functionality:

- **WebSMS+:** WebSMS provides essential outbound messaging capabilities. WebSMS+ extends the included outbound WebSMS capability by enabling advanced features such as permission management, reply management, scheduling and prioritization (Note: WebSMS is included as a standard application in AT&T Global Smart Messaging Suite).\*\*\*\*
- **Campaign Manager:** Campaign Manager is a solution for managing opt-in and opt-out permissions for SMS and e-mail marketing. With permission from the recipients, you can deliver bulk SMS and e-mail messages to your customers, prospects or staff. You can also effectively manage responses for SMS voting, polls, surveys and competitions.
- **Inbound and Inbound+:** The Inbound application receives SMS messages generated in the field from a mobile device and is able to automatically sort and parse incoming SMS messages and respond (Note: One Inbound user license is included as a standard application in AT&T Global Smart Messaging Suite - Corporate). Inbound+ extends the Inbound capability by enabling multi-question campaigns, voting, polls, surveys and competition drawings.
- **Reminder:** Reminder is an automated SMS appointment confirmation solution that enables

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appointment reminders to confirm appointments via SMS, which can help ensure that customers are contacted to reduce failure to attend rates.

- **eMailer and eMailer+:** The eMailer application enables e-mail as a multi-modal communication tool that can be used to complement the SMS capability. The eMailer+ application extends the included eMailer application by enabling advanced e-mail features such as adding attachments, unsubscribe controls, an open counter, templates, destination filtering and delivery rate control.
- **Mobile Authenticator:** Mobile Authenticator is the solution you want when you need to provide your employees or customers with a 2-factor mobile authentication system to provide access to your online services. Mobile Authenticator takes advantage of the ubiquity of the mobile phone to deliver a one-time password via SMS, delivering the same benefits as a hardware or software token without all the administrative overhead.
- **StaffMatch:** Staff Match automates the time-consuming process of contacting staff to fill shifts. With Staff Match you simply define your shift (date, time, location), the role you need to fill, and any specific qualifications and press send. Staff Match will send an SMS message to all staff in your employee pool that meet the criteria you have selected. Staff simply respond with a 'y' or a 'n' and the shift is allocated to the first 'y' responses received and sends an acknowledgement to the successful bidders. Staff Match also advises unsuccessful bidders accordingly.
- **StaffSafe:** StaffSafe enables enterprise organizations to keep in touch with their field force working in the field. StaffSafe enables the ability to create and scheduling staff checks via SMS; confirming status from the field via SMS; escalating when messages are unanswered; providing real-time reporting of employee status; and the solution can be integrated into existing workforce management systems for job dispatch and tracking to help ensure a smooth end to end process flow in a large organization.

\* Customers have the option to archive messages within the web application for up to 90 days, after which time the messages will be deleted. Customer can export messages for customer retention offline if exported prior to 90-day expiration.

\*\* For non-AT&T devices/service, all technical support, voice, messaging and data usage will be subject to the applicable rates and terms of such other wireless carrier(s). Refer to applicable wireless carrier for such rates, terms and conditions. Visual graphic shown on this page may include additional features not included in the standard product.

\*\*\* Opt-in and opt-out lists can be created in three ways: a) manually with up to 10,000 entries; b) from inbound mobile-originated messages with up to 100,000 entries; or c) by uploading a file from a "comma separated file" (.csv) file with up to million entries.

\*\*\*\* While AT&T Global Smart Messaging Suite can be an effective way to communicate with employees and consumers, it should not be used as the primary or sole method of sending notifications that contain information that is essential to the protection of life or property.

#### Important Information:

Available only to customers with a qualified AT&T business or government agreement ("Enterprise Agreement") and their respective Corporate Responsibility Users (CRUs). May not be available for purchase in all sales channels or in all areas. Compatible device required. Additional hardware, software, services and/or network connection may also be required. Coverage: Coverage is not available in all areas. Wireless service is subject to transmission, terrain, system, capacity and other limitations. Availability, security, speed, timeliness, accuracy and reliability of service are not guaranteed by AT&T. Additional Terms: The AT&T Global Smart Messaging Suite application is subject to additional terms and conditions, including without limitation, the AT&T Global Smart Messaging Suite rate plan brochure and the AT&T Global Smart Messaging Suite Attachment. Service is also subject to the applicable Enterprise Agreement, rate plan brochure(s) and coverage map(s). See applicable materials for details. Additional charges and other restrictions apply. Offer subject to change.

Additional product details and terms and conditions can be found at [www.att.com/smartmessagingsuite](http://www.att.com/smartmessagingsuite).

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## Good™ Mobile Messaging Wireless Corporate Email



### Good™ for Enterprise from AT&T

Good for Enterprise,\* a Good Technology product offered from AT&T, provides enterprise-grade wireless email as well as IT security and management tools for complete visibility and control of your diverse smartphone deployment.

Good for Enterprise from AT&T gives you two products:

- **Good™ Mobile Messaging** makes it easy to give employees wireless access to key business applications like email, calendar, contacts, attachments, tasks, and notes.
- **Good™ Mobile Control** provides the comprehensive device management and granular security capabilities you need to deploy enterprise-class wireless email from a single, Web-based management console. Good Mobile Messaging is fully integrated with Good Mobile Control.

The combination of Good Mobile Messaging and Good Mobile Control can help improve productivity and meet business needs across your organization.

### AT&T Provides Choice

Good for Enterprise is compatible with a variety of Palm®, Symbian, and Windows Mobile® smartphones from AT&T. Additionally, Good Mobile Control now offers support for iPhone.

### AT&T Email Solutions Expertise

AT&T is an all-inclusive source for the award-winning Good for Enterprise solution, with complimentary consultative services, a single point of purchase, consolidated billing, and streamlined end-user support services. AT&T has extensive business email solutions expertise, making wireless email deployment easy and cost-effective.

### The AT&T Fast, Extensive Network

With Good for Enterprise, customers use the AT&T network—the nation's fastest 3G network.\*\* Customers can also travel internationally and still get their Good Mobile Messaging with AT&T data roaming agreements in 180 countries worldwide, and voice roaming in more than 215 countries.

\*Good for Enterprise from AT&T does not include Good Mobile Access™. Customers interested in Good Mobile Access should contact Good Technology directly for sales and support information.

\*\*Service not available in all areas. Good Mobile Messaging (GMM) on AT&T wireless service requires compatible GMM Server and, as to each end user, a compatible GMM Client Access License (CAL) and qualified activation of an eligible AT&T GMM data plan on a compatible device. Terms of service vary based on selected devices and service plans. Roaming outside the U.S. and Canada requires qualified international roaming plan. Additional credit and eligibility restrictions apply. May require purchase of and be subject to the terms and conditions of additional software, associated services or features, hardware, and/or network connections. Not available for purchase in all AT&T channels. AT&T coverage is subject to transmission limitations and terrain, system, capacity, and other limitations. Although GMM utilizes certain security features, AT&T does not guarantee security. When outside coverage area, access will be limited to information and applications previously downloaded to or resident on your device. Additional charges and restrictions apply. Please contact your AT&T representative for further details.

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### Good Mobile Messaging™ Demos

Watch these interactive demos—see for yourself the power, flexibility and ease of Good Mobile Messaging™.

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## Microsoft® Direct Push Wireless Email



### Familiar Microsoft® technology for wireless email, calendar, contact, and tasks.

Microsoft Direct Push from AT&T is an enterprise grade wireless email solution for Windows Mobile powered smartphones. With Microsoft Direct Push, mobile professionals can easily stay connected to their Microsoft Outlook® information while on the go. Microsoft Direct Push is an ideal solution for organizations that use Microsoft Exchange Servers\* and are interested in a cost effective and scalable wireless email solution.

### Optimizing Productivity

Microsoft Direct Push helps users work more efficiently with full wireless synchronization of email, calendar, contacts, and tasks on a Windows Mobile powered smartphone. Mobile professionals can receive and respond to email quickly through a familiar Microsoft Office Outlook Mobile interface. From forwarding calendar invites to looking up contacts in a corporate directory, Microsoft Direct Push helps make mobile professionals more productive.

### Innovative Architecture

Microsoft Direct Push is not only great for mobile professionals, it's great for IT. Microsoft Direct Push offers a familiar platform that extends your existing Microsoft technology investments and expertise. Microsoft Direct Push technology is built into Microsoft's Exchange Servers and Windows Mobile powered smartphones.\*\* In contrast to other enterprise grade wireless email solutions, Microsoft Direct Push operates without third party middleware or additional client access licenses (CALs). For companies already running on Exchange Servers, the solution may require little or no changes to the IT infrastructure, resulting in simplified management, lower up front investment and the opportunity for a rapid return on investment. IT professionals can rest easy—Microsoft Direct Push includes a number of security features to help protect corporate data such as remote device wipe, encryption capabilities, application control, and password enforcement.

### AT&T Expertise and a Fast, Extensive Network

As the leading carrier for Windows Mobile powered smartphones and corporate wireless email solutions, AT&T takes the complexity out of deploying Microsoft Direct Push. AT&T offers consultation services, a large selection of Windows Mobile powered smartphones, service-specific rate plans, and specialized technical support.

With Microsoft Direct Push and the AT&T wireless network, employees can remain connected and productive. Additionally, mobile professionals can use email and voice service while traveling internationally with AT&T's voice and data roaming agreements in countries across the globe.

### Choose Your Windows Mobile Powered Smartphone from AT&T

AT&T offers the flexibility of choosing a Windows Mobile powered smartphone that meets your needs—learn more about the Windows Mobile 6.1 operating system [here](#) and see the latest Windows Mobile powered smartphones [here](#).

### Related Links

**Exchange ActiveSync:** Microsoft Direct Push uses the Exchange ActiveSync protocol to facilitate wireless synchronization of email calendar and contacts. Microsoft has licensing programs for the Exchange ActiveSync protocol. You can take advantage of Exchange ActiveSync wireless synchronization through compatible devices at AT&T including the following operating systems from [Apple](#), [Nokia](#), and [Palm](#).

Feature sets differ based on licensing agreements and technology decisions made by the device manufacturer.

**Microsoft System Center Mobile Device Manager (MDM):** In today's wireless business world, mobile devices are critical to any IT infrastructure. With [Microsoft System Center Mobile](#)

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**Device Manager (MDM)** AT&T customers using Windows Mobile 6.1 smartphones now have access to applications, files corporate data, and other information located on the corporate network previously inaccessible without a VPN connection.

**IMPORTANT INFORMATION:** Coverage not available in all areas. Compatible device, qualified AT&T agreement, and eligible rate plan required. Additional software, associated services or features, hardware, and/or network connections may be required. Additional restrictions apply. Offer subject to change. Contact AT&T for details.

\*Exchange Server 2003 with Service Pack 2, Exchange 2007, and Exchange 2007 with Service Pack 1.

\*\*Windows Mobile 5.0, Windows Mobile 6, or Windows Mobile 6.1.

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## Industry Solutions



### Cross-Industry Solutions

Learn how wireless data solutions can improve your business.

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Cross-Industry offerings include:

- [Field Service](#)
- [Fleet Management](#)
- [Sales Force Automation](#)
- [Location-based services](#)

### Vertical Industry Solutions

AT&T provides wireless business solutions for your company's unique needs, combining vertical industry expertise with mobile data solutions tailored to your specific line-of-business processes.

[Learn more](#)

Vertical-Industry offerings include:

- |   |                               |  |
|---|-------------------------------|--|
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### Mobile Productivity Solutions

Mobile productivity solutions are designed to optimize the wireless workflow of mobile professionals.

Mobile Productivity Solutions include:

- |   |   |
|---|---|
| <a href="#">Airtime Manager from AT&amp;T</a> | <a href="#">Nice Office from AT&amp;T</a> |
| <a href="#">Associate from AT&amp;T</a>       | <a href="#">ProntoForms from AT&amp;T</a> |

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## Cross-Industry Solutions



### We make your business our business

#### Field Service Automation

Provide better customer service with greater allocation of resources. Enable field-based employees to work more productively through real-time access to work orders, part lists, and other essential back-office information.

[Learn more](#)

#### Fleet Management

Enhance fleet efficiencies with control, insight, and accountability. Monitor vehicle locations, arrivals, and departures with real-time access to critical operational data.

[Learn more](#)

#### Sales Force Automation

Enhance your organization's profitability by accelerating sales cycles, lowering operational costs, and increasing customer satisfaction. Seamless communication with the back office enables your sales force to focus more time working directly with customers.

[Learn more](#)

AT&T has the experience, expertise, and business processes that are critical to your success. Whether you need wireless access to existing enterprise applications, or a custom- or industry-specific software package, we can deliver the right solution.

If you have any questions, please call our business solutions experts at 866-429-7222.

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## Field Service Automation



### Increase Effectiveness in the Field.

Wireless Field Service Automation (FSA) solutions can enable field-based employees in a variety of [industries](#) to work more productively. Through real-time access to work orders, part lists, and other essential back-office information from the latest [wireless notebooks](#), [handhelds](#), and [smartphones](#), technicians can also more effectively meet the needs of customers.

### Improve profitability. Enhance productivity. Satisfy customers.

AT&T FSA solutions can enhance your organization's profitability by reducing time to first fix, lowering operational costs and satisfying customers. AT&T offers a broad portfolio of Field Service Solutions that can range from simple form-based applications to stand-alone FSA applications, to mobile applications integrated with multiple back end systems.

### Mobilize Your Field Force with AT&T Field Service Solutions

On-demand application platforms for mid-size field organizations:

- TelenavTrack™ from AT&T, a leading GPS-based solution for employee tracking and workforce management. [Learn more](#)
- Xora GPS TimeTrack™ from AT&T, a leading GPS solution for time tracking and mobile resource management. [Learn more](#)

### AT&T Mobile Enterprise Application Platforms

AT&T provides a leading hosted middleware solution that can extend back end systems to:

- Enable field technicians to receive and manage work orders on the mobile device—eliminating trips to the office and reducing paperwork
- Provide dispatchers with tools for smarter scheduling and dispatch—assigning the right person to the right work by analyzing their location (or the location of their vehical), skill set, and completion of previous assignments, all in real time
- Use wireless devices and application to manage parts (trunk inventory, new parts ordering), bill for out-of-warranty work, fill out timesheets, access knowledge base, and perform diagnostics of the equipment they service

[Learn more about the AT&T Mobile Enterprise Application Platforms](#)

### Trimble GeoManager from AT&T

A leading, on-demand, vehicle-mounted MRM solution that integrates GPS, wireless, and Internet technologies into mobile software applications that strengthen your ability to manage your mobile workforce and assets. Trimble GeoManager from AT&T offers robust fleet tracking, fleet management, and other mobile resource management tools with an array of features and options. [Learn more](#)

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## Fleet Management



### Wirelessly track, monitor, and enable your fleet

AT&T Fleet Management solutions bring you control, insight, and accountability. Monitor vehicle locations, arrivals, and departures while having real-time access to critical operational data - lowering overall fuel emissions and reducing your company's carbon footprint. And keep your mobile workforce connected to the information they need with our complete wireless Fleet Management solutions.

#### Enhance Fleet Efficiencies

- Detailed, easy-to-follow maps that allow drivers to find information quickly
- Efficient routing of drivers, resulting in reduced fuel consumption and carbon emissions
- Online access for re-routing if necessary, which saves vehicle wear and tear and improves drivers' quality of work life
- Downloading of schedule and route changes to drivers, which helps dispatch vehicles faster and improve customer response times, therefore reducing travel time and costs
- Reports on mileage, speed, stops, and delivery times and allows monitoring of drivers' activities
- The ability to remotely check vehicles' fuel, tire inflation, and oil levels, which improves vehicle performance and reduces breakdowns and repairs
- Remote validation of credit cards and submission of drivers' reports, which reduces time-wasting trips back to the office, accelerates delivery and sales cycles, and enhances customer relations
- Improved driver safety with the ability to lock doors, shut down engines, or trigger panic alarms remotely

#### Security Features

The GSM™/GPRS/EDGE protocol includes over-the-air encryption/decryption of data while in transit. Fleet alliance providers can provide an added layer of encryption and authentication, as well as wireless data compression for enhanced speed and security. Read how AT&T's Fleet Management solutions help boost productivity and increase profits at Meetze Plumbing. When you need emergency medical services, time is of the essence. Read how AT&T helped American Medical Response measure success—in seconds. How can you maximize the return on investment (ROI) for your company's specific business processes? [Ask an AT&T Business Expert.](#)

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## Sales Force Automation



Make your data work as hard as your sales team

**The Challenge for Mobile Sales Teams**

Your company's sales force is out on the road closing deals, but the information they need to be effective is back in the office. Now, you can make your data work as hard as your sales team. Enable them to [achieve new levels of productivity](#) and provide improved customer service with real-time wireless access to CRM and other customer-facing information at their fingertips.

**Improved Productivity with Wireless Solutions**

Wireless solutions from AT&T give sales professionals the ability to stay informed, collaborate on opportunities, and update account information directly from the field, where sales information is fresh and actionable.

With wireless applications like Antenna® Software, your sales team can connect seamlessly to their Oracle Siebel, Salesforce.com, NetSuite or other CRM applications, allowing them to perform real-time contact, opportunity and activity searches and updates directly on their handheld device. They can also retrieve pricing terms, inventory availability, order status and other pertinent information, allowing them to be proactive and responsive to customers while they're on the go.

**Benefits for Field Sales**

- Always-on, real-time access maximizes sales productivity
- More time in the field selling—less time in the office
- Better prepared for customer calls
- No more evenings spent updating CRM data

**Benefits for Sales and Marketing Executives**

- Improved reporting and visibility into sales pipeline
- Able to detect customer and market trends more quickly—not just react
- Greater sales compliance with CRM tools

**Benefits for Inside Sales**

- Boosts back-office productivity
- Reduces interruptions from the field
- Improves accuracy of order process

Financial services industry sales professionals can benefit from applications tailored to their unique workflows with [Pyxis Mobile](#) including CRM, market data, and analytics.

How can wireless data solutions improve client relationships and ROI for your organization? [Ask an AT&T business expert.](#)

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## Location-based Services



### Location-based services offers with global coverage for AT&T GPS smartphones

Whether you own and operate your own small business or work in a large enterprise company AT&T can provide you with the right application and service support for your unique business needs.

#### Solutions

##### GPS Navigation with AT&T Navigator® and AT&T Navigator® Global Edition

- Real-time GPS enabled turn-by-turn navigation on your AT&T mobile Smartphone or static navigation and Local Search on your non-GPS AT&T mobile Smartphone
- Global GPS turn-by-turn navigation—Mapping and Point of Interest content for three continents, including North America (U.S., Canada, and Mexico), Western Europe, and China where wireless coverage is available from AT&T or its roaming providers

[Learn more about AT&T Navigator](#)      [Learn more about AT&T Navigator Global Edition](#)

##### Network-based Locator Offers

- Locate your remote and field-deployed employees using the AT&T network and see their location on an easy to use map directly from your PC

[Learn more about TeleNav Track LITE™](#)      [Learn more about Xora GPS Locator™](#)

##### GPS Tracking and Productivity

- Field force management, asset tracking, field service automation, and productivity tools like GPS timecards and wireless forms
- Mobile fleet asset tracking can improve utilization, increase regulatory compliance, and reduce costs

[Learn more about TeleNav Track™](#)      [Learn more about Xora GPS TimeTrack™](#)  
[Learn more about TeleNav Vehicle Tracker™](#)      [Learn more about Xora GPS TimeTrack™ In-Vehicle](#)  
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## Vertical Industry Solutions



**AT&T has the solution for your company's unique needs.**

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### Architecture, Engineering, and Construction ("AEC")

Improve quality assurance, collaborate with clients and partners, and manage project assets more effectively with wireless data solutions.

[Learn more](#)

### Automotive

Meet the needs of diverse organizations in the automotive industry—parts and components suppliers, OEMs, dealers, and after-market service providers—with a comprehensive suite of AT&T business solutions.

[The Automotive Ecosystem at your fingertips](#)

### Banking (ATM)

Reduce ATM operational costs and improve customer experience with a wireless solution that leverages your current ATM network investments while complying with industry standards for data transmission.

[Learn more](#)

### Consulting

Strengthen client relationships with proactive responsiveness, improved productivity, and enhanced work-life balance while on the road. Consultants can access email, client resources, and enterprise applications wirelessly on a mobile device or laptop.

[Learn more](#)

### Consumer Packaged Goods

Real-time wireless data solutions help streamline the supply chain, provide sales reps with crucial customer information needed to increase sales, and equip drivers and merchandisers with the necessary tools to improve their productivity.

[Learn more](#)

### Financial Services: Investments

Increase productivity, assets under management, and compliance with real-time access to enterprise application such as CRM, order management, portfolio management, research and market data, and email on a wireless device.

[Learn more](#)

### Healthcare

Real-time wireless tools and processes are yielding tangible, immediate returns by improving patient treatment, reducing administrative costs, and clarifying communication where it matters most.

[Learn more](#)

### Hospitality

Meet the diverse operational needs of hotels, restaurants, and entertainment venues with a comprehensive suite of AT&T business solutions.

[The Hospitality Ecosystem at your fingertips](#)

### Insurance: Life & Annuities

Improve agent productivity, streamline underwriting, and drive policy sales growth with the ability to complete policy applications, access and update client information and policy details, and manage the underwriting process from a mobile device.

[Learn more](#)

### Insurance: Property & Casualty

Stay agile and support customer service needs rapidly, while reducing cycle time and costs associated with claims handling and settlement.

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See the latest wireless deals and phones from AT&T.



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### Laptops

Take advantage of a laptop solution with AT&T built-in wireless connectivity.



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### Email on the Go

Send and receive emails on-the-go. You can increase productivity with AT&T enterprise-grade wireless email solutions.

[Details](#)

Increase productivity, responsiveness, and profitability with wireless access to the office and key documents. Decrease administrative tasks for attorneys and paralegals, allowing more time for billable events and client response.

[Learn more](#)

#### **Location-Based Services (LBS)**

Location-based services (LBS) consist of a broad range of services that incorporate location information with other data to provide a value-added experience for AT&T customers.

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#### **Manufacturing**

Accelerate service delivery cycles, improve responsiveness and customer satisfaction, and better manage and control the costs of service delivery. The world's largest high-tech manufacturers have benefited from AT&T's expertise.

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#### **Media**

Reduce time to broadcast, enhance news coverage, and reduce operating costs by acquiring and distributing content on scene with a mobile device.

[Learn more](#)

#### **Petrochemical**

Meet the needs of diverse organizations in the petrochemical industry—from crude oil to refinery to processing and distribution—with a comprehensive suite of AT&T business solutions.

[The Petrochemical Ecosystem at your fingertips](#)

#### **Retail**

Improve merchandising execution, supply chain management, and facilities maintenance operations.

[Learn more](#)

#### **Telecommunications**

Improve dispatch assignments and eliminate unnecessary travel while increasing the number of daily work orders completed. Field technicians can complete their work orders and file them wirelessly.

[Learn more](#)

#### **Transportation**

Positively impact operations by improving the key business processes that drive the business: dispatching, routing, tracking, and reporting. AT&T has a number of wireless solutions to improve productivity and customer satisfaction.

[Learn more](#)

#### **Utilities**

Technicians can obtain work orders, record their on-site activities (service connect, disconnect, collection, and repair), and close work orders in real time. The AT&T wireless data network is also a cost effective solution for AMI needs.

[Learn more](#)

#### **Wholesale Distribution**

Improve productivity and revenues by enabling sales executives to update contact information, check inventory, and submit orders from the road in real-time. Efficiently dispatch and track fleet operations while capturing delivery information at the point of interaction.

[Learn more](#)

#### **Custom Solutions (including Machine to Machine)**

Utilize telemetry, transactions and more to help make your business smarter and faster while achieving a higher level of productivity, capability and efficiency.

[Learn more](#)

AT&T has the experience, expertise, and business processes that are critical to your success. Whether you need wireless access to existing enterprise applications, or a custom- or industry-specific software package, we can deliver the right solution.

If you have any questions, please call our business solutions experts at 866-429-7222.

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## Enterprise Mobility

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Looking to extend the reach of your business? Wondering how to increase the productivity and responsiveness of your workforce while working outside of the office? Searching for an easier way to integrate and manage the growing number of mobile devices and services?

We have the solutions and expertise you can trust to mobilize your enterprise.

The nation's fastest mobile broadband network. Broadest international coverage of any U.S. wireless provider. Comprehensive portfolio of mobile enterprise applications. Industry experts for planning and deploying mobile solutions. Innovative selection of mobile devices. Number one provider of mobile messaging. Recognized leader in providing secure, remote access and fixed-mobile solutions.

### Machine-to-Machine

AT&T has the expertise, platforms, network and alliances to deliver world-class machine-to-machine solutions.

### Mobile Applications

Capture 'at once' business, enhance and improve processes with increased visibility, and drive efficiencies with real-time data.

### Mobile Devices

AT&T has devices that work with the way you work.

### Mobile Management Solutions

AT&T's mobile management solutions can help qualified customers simplify and streamline their mobile environments by increasing visibility into and control over the use of wireless services in supported countries.

### Mobile Messaging

Mobile messaging solutions to fit your IT requirements and mobile workforce needs.

### Mobile Remote Access

Get on-the-go access with AT&T's Mobile Remote Access Services.

### Wireless Discounts

Business employee?

See if you qualify for wireless discounts.

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## Machine-to-Machine

Network assets.  
Expertise and ecosystem.  
Innovative service platforms.  
Proven Achievements.

**M2M  
360**[Overview](#) [Description](#) [Services](#)[Send to a colleague](#) **AT&T Control Center**

AT&T Control Center, powered by Jasper Wireless, delivers what companies need to connect and manage devices profitably. The solution delivers real-time access to the core network elements that help you run your connected device business – from automating how you bring your product to market, to delivering real-time support, to managing your costs.

**Enterprise On-Demand**

Enterprise On-Demand is a unique program for customers with very large data deployments, providing a comprehensive online environment for ordering and real-time activation, online trouble ticket management and reporting—everything you need to manage a large-scale, mission-critical wireless data solution.

**How Can We Help You?**

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**AT&T's Wireless Network**

- [AT&T Wireless Network - There's No Comparison \[PDF, 553KB\]](#)
- [AT&T Network News](#)

**Related Resources**[AT&T M2M Video - Extend Your Reach](#)[AT&T Plans \\$1 Billion Investment in 2010 in Network Capabilities, Solutions and Applications for Businesses](#)

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## Mobile Applications

AT&T WorkBench... getting down to business

AT&T Mobile Enterprise Applications Platform

Press release

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### Field Service Automation

Increase effectiveness in the field, improve profitability and enhance productivity while improving your customers satisfaction! You can enable your field-based employees in various industries to work more productively. Through real-time access to work orders, part lists, and other essential back-office information from the latest [wireless netbooks](#), [handhelds](#), and [PDAs](#), technicians can also more effectively meet the needs of customers. You can rely on our [TeleNav Track](#) solutions, [Xora GPS](#) offer options, [WebTech Wireless Quadrant](#), [Trimble GeoManager](#), and applications provided through [AT&T Mobile Enterprise Applications Platform](#) to put wireless to work for you in the field!

### Fleet Management

Maximize your operational visibility! You can wirelessly track, monitor and enable your fleets, gaining control, insight and accountability. And improve performance and safety, while boosting productivity and increasing profits.

AT&T business solutions can improve efficiency and effectiveness, and streamline processes across fleets, regardless of size or equipment types. For larger fleets and those with heavier equipment, solutions from [Trimble GeoManager](#) and [WebTech Wireless Quadrant](#) are available. For smaller and light duty fleets, we've added solutions like [TeleNav Vehicle Tracker](#) and [Xora GPS TimeTrack In-Vehicle](#) and each of these solutions can be tailored to your fleet needs... We have business solutions to maximize your fleets and processes!

### Location-based Services

Create flexible and scalable solutions! Navigate efficiently with real-time GPS and increase productivity with mapping while improving performance and tracking assets. Whether you own and operate your own small business or work in a large enterprise company, AT&T can provide you with the right application and service support for your unique business needs. You can get around more easily and efficiently utilizing [AT&T Navigator](#) or [AT&T Navigator Global Edition](#) and keep track of your assets in near real time with our [TeleNav Track](#) solutions, [Xora GPS](#) offer options, [WebTech Wireless Quadrant](#) and [Trimble GeoManager](#).

### Sales Force Automation

### On-Demand Webcast

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Empower your mobile sales personnel and enable real-time access! You can reach new levels of productivity and improve customer service, while detecting market trends more quickly - and acting! Your company's sales force is out on the road closing deals, but the information they need to be effective is back in the office. Now, you can enable them with customer-facing information at their fingertips and real-time wireless access via [Pyxis Mobile](#) to CRM and other applications, as well as applications provided through [AT&T Mobile Enterprise Applications Platform](#). Make data work as hard as your sales teams!

#### Vertical Industry Solutions

Tailored solutions by industry! You can improve quality assurance, reduce operational costs, strengthen client relationships and increase sales and productivity. AT&T has the experience, expertise, and business processes that are critical to your success. Whether you need wireless access to existing enterprise applications, or a custom- or industry-specific software package, we can deliver the right solution - specialized for your unique needs!

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## Mobile Devices

**Airo Wireless A25is**  
The world's first intrinsically safe-certified smartphone - and only AT&T has it.

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### BlackBerry®

Want mobile enablement? BlackBerrys® connect your mobile workforce with everything they want - email, browser, calendar, and more - to do the work they need to do.

### Device Protection & Control

Challenged by mobile device management? AT&T helps you protect and control your smartphones over-the-air from a desktop without ever having to touch a wireless device.

### iPhone 3GS

Meet iPhone 3GS, the fastest iPhone ever. iPhone 3GS includes key enterprise features like Microsoft Exchange ActiveSync for push email, calendar, and contacts.

### Microsoft System Center Mobile Device Manager

Need to manage your Windows Mobile® devices? Microsoft® System Center Mobile Device Manager provides security features, mobile VPN and software distribution for your Windows Mobile® devices.

### Smartphones & PDAs

Are your mobile professionals connected? AT&T helps the mobile workplace stay productive with Palm®, Windows Mobile® and Symbian™ devices that work with the way you work.

### Network-Ready Devices

Custom applications? Rugged environment? AT&T helps you identify and deploy the right device for the job.

### Wireless Discounts

**Business employee?**  
See if you qualify for wireless discounts.

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## Mobile Remote Access



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### Commercial Connectivity Service

Extend the reach of your corporate network to your mobile workforce with security-enhanced, back-end connectivity between your WAN and the AT&T cellular network.

### LaptopConnect

Maximize corporate assets. Enable and empower remote workers. Improve productivity with easy connectivity. Increase business speed and reach. Simplify, extend and enhance mission critical activities. AT&T is transforming laptops into wireless workflow enablers!

### OfficeReach

Challenged with keeping costs down while assuring that employees are connected to colleagues and customers? OfficeReach is an innovative approach to managing wireless usage, minimizing personal calls during business hours and helping eliminate the need for multiple, complex communication solutions.

### WiFi

Extend your end-users reach into your corporate infrastructure applications or the Internet with more than 125,000 'Hotspot' locations around the world with WiFi services. Wherever you need to be connected, AT&T delivers.

### Wireless WAN

Wireless WAN allows locations to connect to a corporate infrastructure by using cellular-enabled router and security-enhanced dedicated or Internet connection to your data center or headquarters location.

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