

Wireless Infrastructure Services

Wireless Infrastructure Services

Progress Telecom gives you a single point of contact for turnkey wireless infrastructure services including tower colocation, engineering, construction and fiber back-haul services. Our relationship with Progress Energy Carolina and Progress Energy Florida allows access to thousands of utility structures throughout the Carolinas and Florida. More than 100 years of experience with local communities and jurisdictions enable us to provide creative, time-sensitive solutions, even in hard-to-reach areas.



Self Support Towers



Build-to-Suit Monopoles

find out more at
www.progresstelecom.com

Taking the challenge...making it happen™

Services:

Progress Telecom is capable of providing a full range of in-house services to keep pace with the rising demand for wireless communications and help your company succeed:

Fiber Back-Haul

- > DS-3 to OC-192 capacity
- > 2.5 Gbps and 10 Gbps wavelengths

Tower Colocation

- > Site identification
- > Contract/lease management
- > Project management

Architectural and Engineering

- > Engineering and permitting
- > Structural analysis
- > Soil borings
- > Title commitments
- > Supplemental easements
- > 2C survey
- > Zoning/permitting
- > NEPA (environmental/phase I)

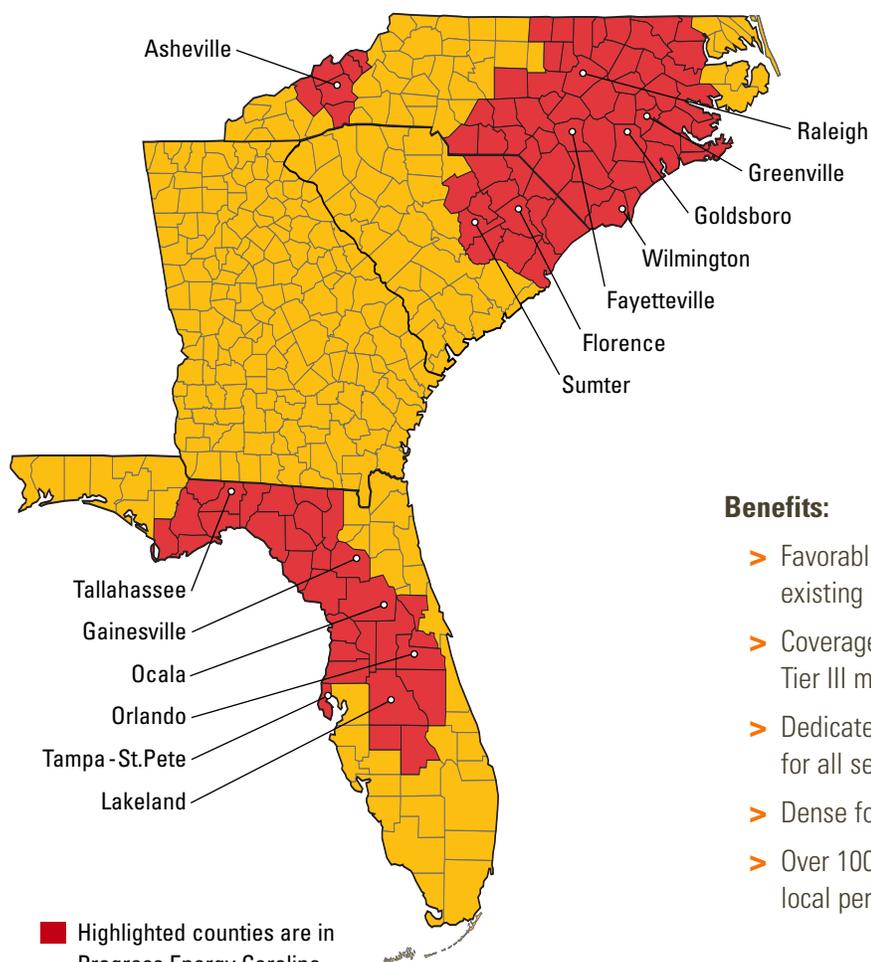
Construction

- > Foundations
- > Structures and attachments



Wireless Infrastructure Services

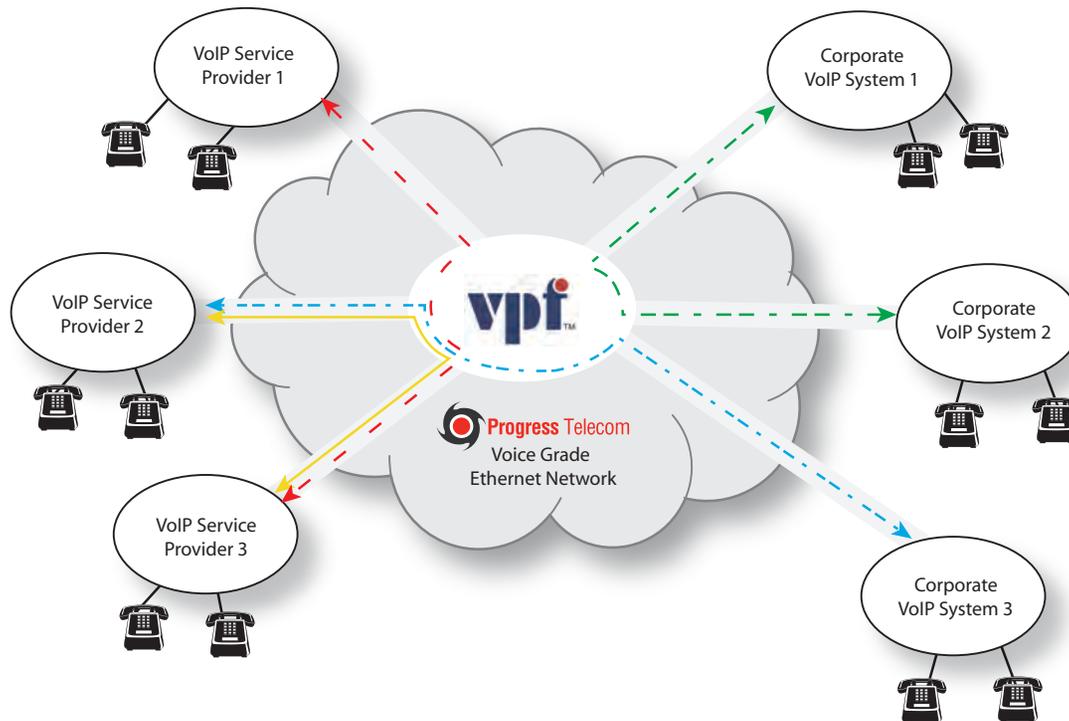
Progress Telecom Provides Service Throughout The Eastern United States



■ Highlighted counties are in Progress Energy Carolina and Progress Energy Florida Territories.

Benefits:

- > Favorable access to restricted zoning areas via existing utility infrastructure
- > Coverage of Tier I cities and growing Tier II and Tier III markets
- > Dedicated resources and a single point-of-contact for all services
- > Dense footprint
- > Over 100 years of experience in engineering, local permitting and infrastructure construction



The VPF, the world's first VoIP exchange...

- Specifically designed for VoIP carriers to interconnect with other VoIP carriers in a private QOS environment
- A cost-saving alternative that reduces or eliminates termination fees
- Available at major domestic carrier hotels leveraging Voice Grade Ethernet
- Resolves local, domestic or international numbers through a secure and stable architecture

The experts in Voice Grade Ethernet connectivity have teamed up with the experts in voice peering technology.

Progress Telecom is a "Preferred Alliance Carrier" to the Voice Peering Fabric (VPF™), the world's leading VoIP minutes exchange. This combination allows service providers to access the VPF from major domestic carrier hotels and IP peering zones over Progress Telecom's Voice Grade Ethernet network.

The VPF is a distributed, switched Ethernet fabric supporting SIP and H.323 based VoIP traffic that allows peer-to-peer connections between carriers or other enterprises. This includes access to the advanced capabilities of the VPF ENUM Registry.

Progress Telecom's Voice Grade Ethernet network and the VPF provide transparent peer-to-peer connections between carriers or enterprises and incorporates access to the advanced capabilities of the VPF ENUM Registry.

Businesses, schools and government institutions can use the service to reduce costs and enhance the capabilities of their voice, video and data networks.

By leveraging Progress Telecom's fully redundant, geo-diverse backbone, this service provides metro and long-haul connectivity with a highly reliable, multi-service and scalable offering.

Expanding the capabilities of VoIP with the Voice Peering Fabric™

Specifications

Interconnection

- Access to VoIP Partners
 - Peer-to-Peer
 - Peer-to-Peering Fabric
- Reach Global Partners
 - Access global telecom hubs
 - Access IP interconnection points

SONET - level SLAs

- Network Availability - 99.999%
- Latency < 50 ms roundtrip

Voice Grade Interconnection

- Guaranteed uptime
- Reduced call/session delay
- Reduced jitter

Scalability

- Expandable network interfaces: (10 Mbps to 1 Gbps)
 - 10Base T
 - 100Base TX
 - 1000Base-SX or LX

MPLS-enabled Ethernet with VLANs

- Private, secure interconnections
- Protection of customer numbers
- Single port - multiple VLANs
- Expandable network architecture

Local Interconnection

- Increases reliability
- Improves voice quality
- Lowers cost

Termination

- Access to the VPF™
 - Possible elimination of per minute termination charges or substantial reduction in termination and interconnection costs
 - Largest global VoIP peering fabric
 - Largest global ENUM registry

Cost Savings

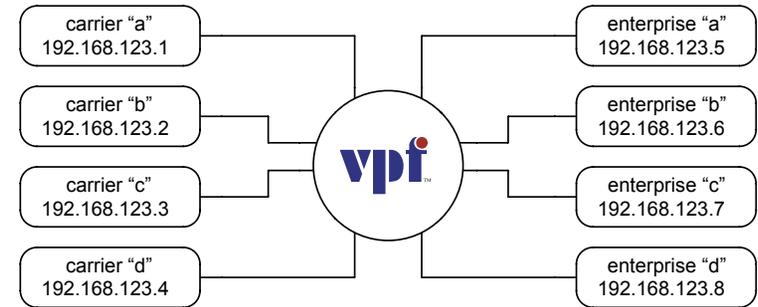
- Fixed cost termination
 - Only pay for required capacity
- Fixed cost transport
 - Non-distance sensitive VLANs
- Standard Ethernet interfaces
 - Low equipment capital expenditure

Access Points

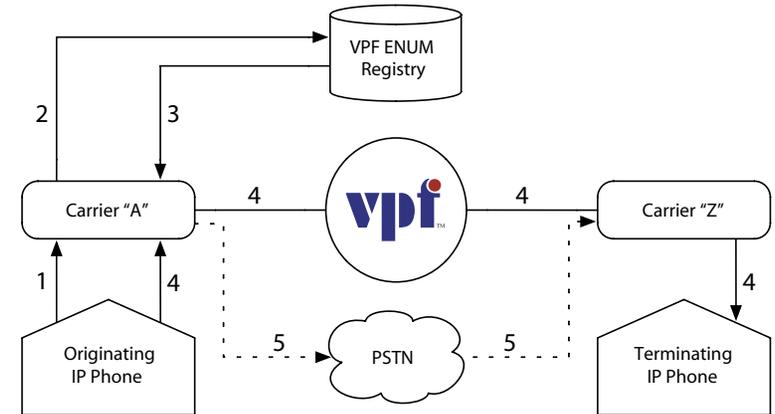
- Ashburn, VA
- Atlanta, GA
- Boca Raton, FL
- Cocoa, FL
- Daytona Beach, FL
- Ft. Lauderdale, FL
- Ft. Pierce, FL
- Jacksonville, FL
- Melbourne, FL
- Miami, FL
- New York, NY
- Orlando, FL
- Tampa, FL

Operations

The VPF Voice Peering Exchange Model



The VPF ENUM Registry

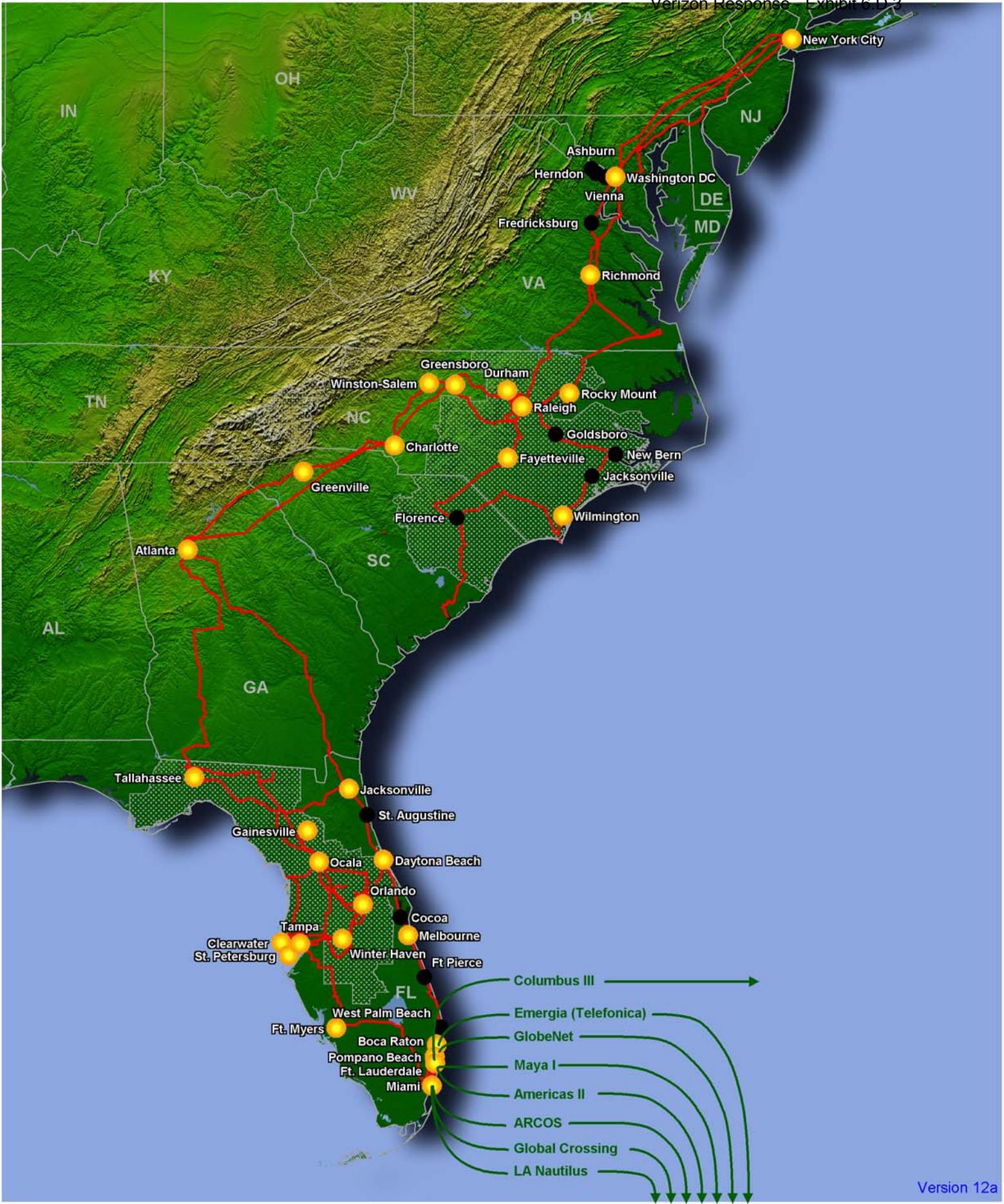


Accessing the VPF ENUM Registry:

- 1 A phone call is initiated and sent to Carrier "A"
- 2 A query is sent to the ENUM server
- 3 The routing information is provided
- 4 If the query is "true," the call is established between carriers through the VPF
- 5 If the query is "false," it is delivered via the PSTN

The Voice Peering Fabric and the VPF ENUM Registry are services of





Version 12a



- Fiber Network
- Network POP
- Metro Network
- Wireless Territory

NETWORK STATISTICS

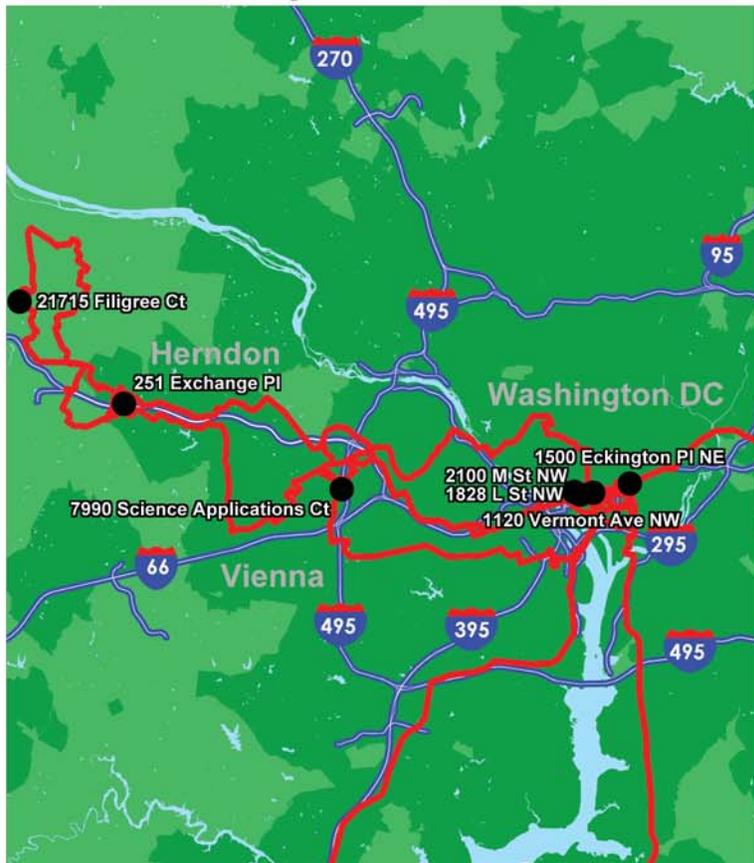
Route Miles	Fiber Miles	POPS
8,524+	424,258+	189+

Tier 1 Metro Network Maps

New York Metro Network



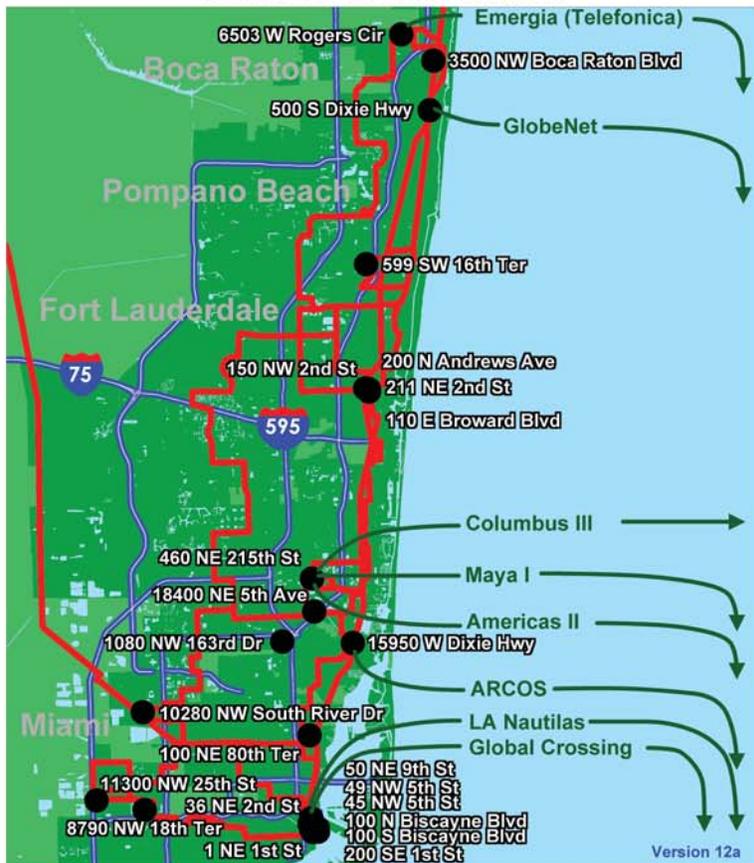
Washington DC Metro Network



Atlanta Metro Network



South Florida Metro Network



— Fiber Network
● Network POP

Additional Progress Telecom Metro Networks

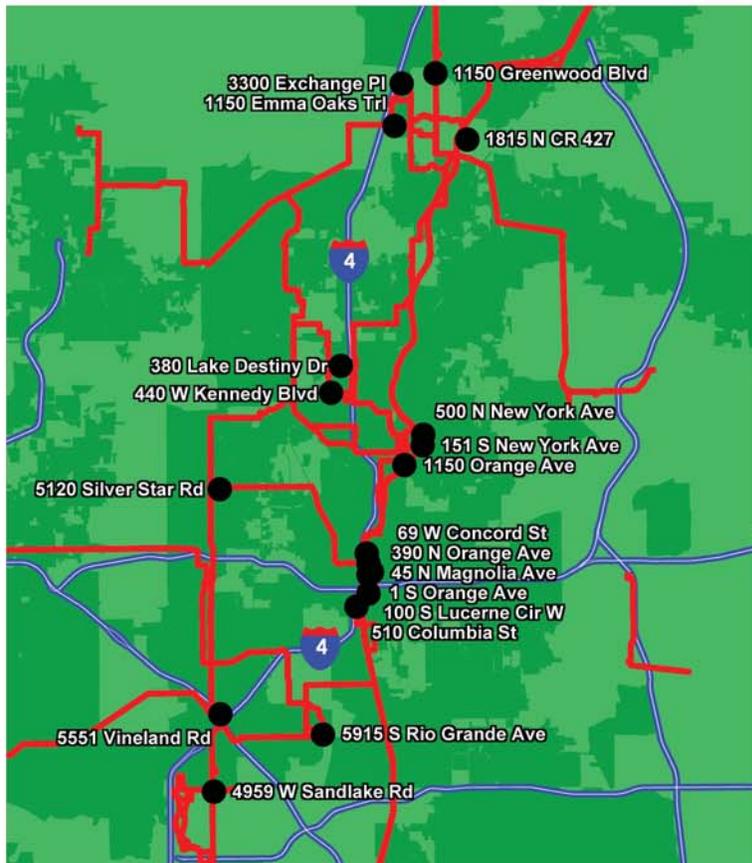
Daytona Beach, FL	Tallahassee, FL	Greensboro, NC
Ft. Myers, FL	Tampa/St. Petersburg, FL	Raleigh, NC
Gainesville, FL	Winter Haven, FL	Wilmington, NC
Melbourne, FL	Charlotte, NC	Winston-Salem, NC
Orlando, FL	Durham, NC	Greenville, SC
Ocala, FL	Fayetteville, NC	Richmond, VA

Tier 2 Metro Network Maps

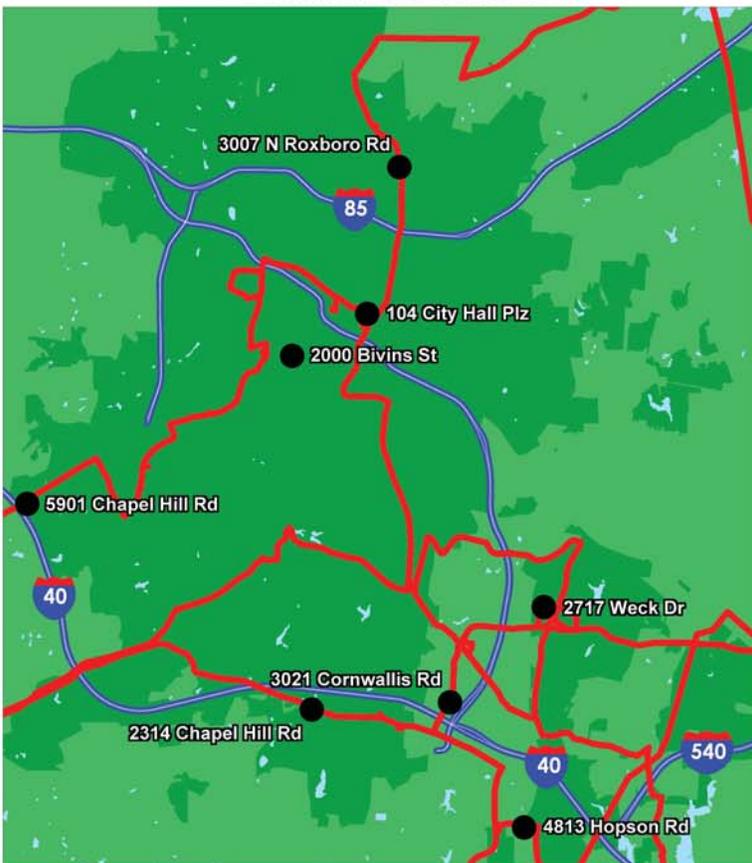
Tampa/St. Petersburg Metro Network



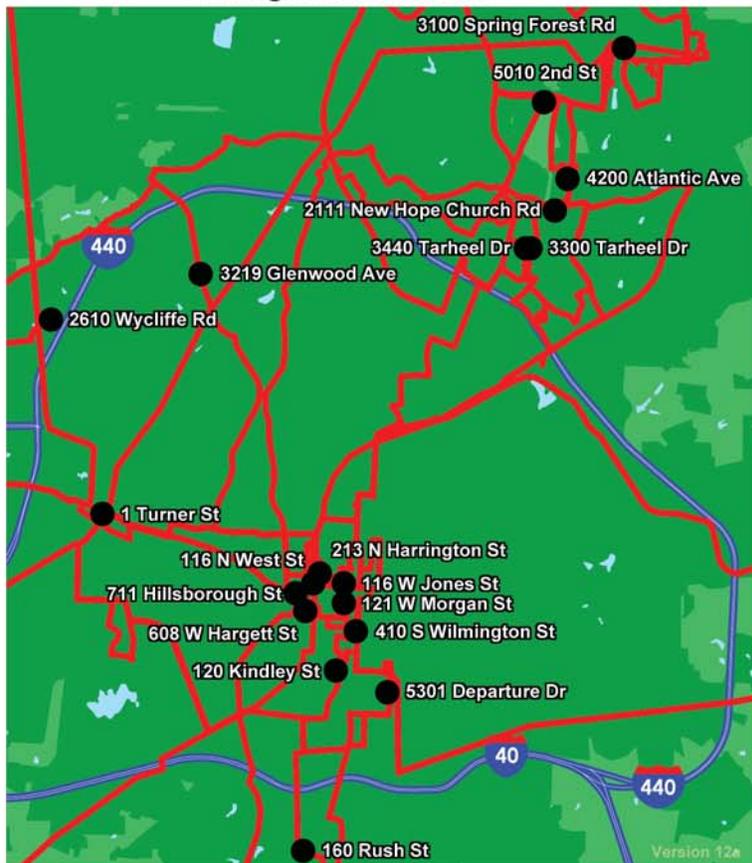
Orlando Metro Network



Durham Metro Network



Raleigh Metro Network



Fiber Network
 Network POP

Additional Progress Telecom Metro Networks

- | | | |
|-------------------------|------------------|-------------------|
| Daytona Beach, FL | Tallahassee, FL | Wilmington, NC |
| Ft. Myers, FL | Winter Haven, FL | Winston-Salem, NC |
| Gainesville, FL | Atlanta, GA | New York, NY |
| Melbourne, FL | Charlotte, NC | Greenville, SC |
| Ocala, FL | Fayetteville, NC | Richmond, VA |
| South Florida/Miami, FL | Greensboro, NC | Washington, DC |

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About Progress Telecom

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Progress Telecom LLC combines the assets of Progress Telecom and EPIK Communications. The new company is one of the largest leading regional providers of broadband services in the eastern United States. The combined fiber network offers fast local loop, metro ring access with dense wave division multiplexing (DWDM) technology and a 10 gigabit, OC-192 IP backbone.

Progress Telecom LLC's robust long-haul and metro fiber transport from New York to Miami allows customers to gain access to international gateways and first, second, and third-tier markets. The company's industry-leading network provides strategic POP locations in the eastern United States, including major international cable landing presence in south Florida. Broadband services offered include private line, wavelength, Ethernet, and Internet protocol (IP), as well as other customized services and solutions. Progress Telecom LLC is jointly owned by Progress Energy (NYSE: PGN), a Fortune 250 diversified energy company headquartered in Raleigh, NC, and Odyssey Telecorp, a telecommunications investment firm based in Palo Alto, CA.


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Qwest Packages

Bundle needed services and save money with Qwest packages.

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Design Your Solution

Build the best communication solution for your business. Call 800-603-6000 to discuss your options today.

MAIN PRODUCTS

▶ Voice Solutions - Lines & Services

Dependability and value—customized to meet your unique business requirements.

▶ Voice Solutions - Long Distance

Our best value ever. Talk a little or a lot, we've got one long-distance plan now that offers substantial savings to every business.

▶ Voice Solutions - Telephones & Equipment

Bring your communications system together with powerful, integrated voice applications to help increase your productivity and efficiency.

▶ Wireless

Choose from the latest phones, features, accessories and calling plans to create the best solution for your business needs.

▶ Internet & Data Solutions

Proven technology to power your business' secure, high-speed Internet access, information exchange and data performance.

▶ Managed Solutions

Customized total system solutions maximize your network resources and return on investment.

▶ Directory Advertising - Dex

Grow your business — advertise in Dex™.

▶ A-Z Product Index

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WHOLESALE

QWEST'S WHOLESALE BUSINESS

Qwest Wholesale offers innovative products and services to Wholesale markets around the world. With its powerful Macro Capacity® Fiber Network, Qwest® is uniquely positioned to meet individual needs with room for growth.

WHOLESALE SOLUTIONS BY INDUSTRY

- ▶ **CLECs**
Competitive Local Exchange Carriers
- ▶ **Commercial Solutions**
Local Exchange
- ▶ **Local Interconnection**
Facility Based
- ▶ **Local Resale**
Non-Facility Based
- ▶ **ESPs**
Enhanced Service Providers
- ▶ **ILECs**
Independent Local Exchange Carriers
- ▶ **International**
International Services (Outside U.S.)
- ▶ **ISPs**
Internet Service Providers
- ▶ **IXCs**
Interexchange Carriers
- ▶ **National Resellers**
National Resellers
- ▶ **Wireless**
Wireless Carriers

SPECIAL VOICE IP TERMINATION OFFERING
 Allows ISPs and ESPs to enter into the voice marketplace!
 JACKIE Senior Process Analyst
 ▶ LEARN MORE

🌟 SPECIAL IP VOICE TERMINATION OFFERING

Allows ISPs and ESPs to enter into the voice marketplace!

Have comfort that your traffic is transmitted across an IP Port managed by Qwest and carried over Qwest's high-capacity OC-192 backbone.

🌟 QWEST WHOLESALE PRIVATE LINE HUB AND SPOKE PROMOTION

Multiplexing included with each bundle!

Qwest Wholesale Passport Promotion is a flat-rate, distance-insensitive private line WAN solution. Fan up to 28 or 84 DS-1s from a single DS-3 (28 DS-1s) or OC-3 (84 DS-1s) hub. Multiplexing is included with each bundle.

🌟 CARRIER CONNECTION PROMOTION

Cross connect to Qwest's backbone at 200-plus access locations nationwide!

Available to customers who order Qwest Dedicated Internet Access (DIA), Qwest Domestic Private Line, Qwest Domestic Frame Relay or Qwest Domestic ATM backbone services.

To learn more about our competitive rates and promotional details, contact your [Qwest Wholesale Sales Representative](#).

WHOLESALE QUICK LINKS

APPLICATIONS

- ▶ CEMR - Customer Electronic Maintenance & Repair
- ▶ IMA - Interconnect Mediated Access Request
- ▶ QORA - Qwest's Access Service On-Line Request Application
- ▶ Remote Control - National Reseller Order Entry & Provisioning

INFORMATION

- ▶ Customer Notice Archive
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- ▶ Qwest Territory Maps
- ▶ Who Is My Account Team
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Wholesale

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Products & Services

Vital relationships depend on reliable products and services. Qwest Wholesale's product portfolio brings that vitality and reliability to your business - today.

Solutions by Product Family

▶ Local Product & Service Solutions

- ▶ Access & Transport
- ▶ Billing
- ▶ Customer Premises Equipment
- ▶ Interconnection - Facility Based
- ▶ Interexchange Access
- ▶ Internet & Data
- ▶ Resale - Non Facility Based
- ▶ Voice Solutions
- ▶ Wireless

▶ National & International Product & Service Solutions

- ▶ Access & Transport
- ▶ Customer Premises Equipment
- ▶ Interexchange Access
- ▶ International (Outside U.S.)
- ▶ Internet & Data
- ▶ Voice Solutions
- ▶ Wireless

Solutions By Industry

▶ Industry Product & Service Solutions

- ▶ CLECs Commercial Solutions
- ▶ CLECs Interconnection - Facility Based
- ▶ CLECs Resale - Non Facility Based
- ▶ ESPs
- ▶ ILECs
- ▶ International (Outside U.S.)
- ▶ ISPs
- ▶ IXCs
- ▶ National Resellers
- ▶ Wireless Carriers

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Products & Services

Qwest has a century of experience keeping businesses connected, and we know what it takes. Whether your business is locally operating or a global conglomerate, Qwest can satisfy your most complex telecom requirements.

- ▶ **Voice Solutions - Lines & Services**

- ▶ **Voice Solutions - Telephones & Equipment**

- ▶ **Data Solutions**
Nine out of ten Fortune 500 companies use Qwest. Rely on us for your secure data transfer needs.

- ▶ **Internet Solutions**
Don't outgrow your provider - Qwest is the answer at every stage.

- ▶ **Managed Solutions**

Qwest offers expertly-designed custom solutions to integrate voice, data and Internet systems.

- ▶ **iQ Networking**

Qwest iQ Networking simplifies complex data communications by uniting your mission-critical business applications with our OC-192 application-aware networking environment.

- ▶ **Wireless**

Qwest Total Advantage™



Best Value for
a Total Business
Solution

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▶ Business Lines	Order Info
▶ Business Voice Messaging	Order Info
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▶ CPE - IP Telephony	Order Info
▶ CPE - Voice: Integrated Solutions	Order Info

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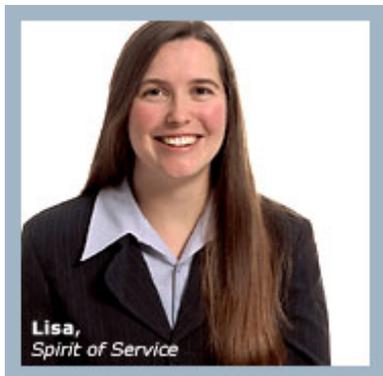
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Qwest iQ Networking

Qwest iQ Networking™ is a new suite of wide-area networking services that power your business operations on Qwest's application-aware IP and MPLS-based network. Tuned into your specific applications and supported by a consultative buying experience, Qwest iQ Networking provides superior technology, universal access and service and support on your terms.

With Qwest iQ Networking, you can be rest assured that:

- **Qwest makes technology work for you** — we construct flexible solutions to meet your unique needs, transcending the underlying technologies, and permitting universal access to our converged networking environment.
- **Qwest enables your business applications** — as enterprise businesses endeavor to use the benefits of multimedia, such as voice over IP, and other bandwidth-intensive applications, the need for an intelligent network to securely support these mission-critical applications is vitally important.
- **Qwest provides iQ Networking on your terms** — an essential component of an intelligent network solution is your experience and expertise. We listen to how you want your network solution to operate, and respond accordingly with end-to-end accountability.
- **You'll experience a consultative approach that best fits your specific needs** — selecting from multiple access methodologies, Wide Area Networking solutions, security services, remote access, hosting, diversity solutions and more.
- **You'll receive a single, accountable one-call-resolve support structure** — along with convenient, quick Web-based management and reporting tools.
- **You'll gain confidence** — knowing your network partner has your best interests in mind.

Increase the iQ of your network today!

Qwest iQ Networking Powers Global Network and Application Environments

Solve today's complex networking and application requirements with Qwest iQ Networking. Our new interactive tutorial can give you an in-depth look at how global enterprises like yours are using iQ Networking. Browse our library of customer testimonials that relate how you can power mission-critical network and application environments with iQ Networking.

[Learn more](#) about how Qwest iQ Networking can enable your business applications and make complex technologies work for you.

- ▶ **Qwest Internet Port**
- ▶ **Qwest Local Access**
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LARGE BUSINESS

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For services in **AZ, CO, ID, IA, MN, MT, NE, NM, ND, OR, SD, UT, WA, and WY** please call **1 800-777-9594**

For services outside of those states please call 1 800-860-1020

[▶ Rates & Services Schedule](#)
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Qwest Total Advantage

Introducing Qwest Total Advantage™, offering the best of Qwest local and long-distance services-combined. As your single source provider, Qwest can now provide you with additional advantages to save more based on your total communications spending. With Qwest Total Advantage, your business receives a comprehensive solution for all Qwest services that rewards you as your business needs grow. From your doorstep around the world, Qwest Total Advantage can enable your business to succeed by providing you with:

- A comprehensive portfolio of local and long-distance services under one contract
- Highest value based on customer total communications spending
- Competitive easy-to-understand discount structure that scales to meet your business needs
- Industry-leading network performance and service SLAs
- Dedicated support to proactively consult and manage each stage in the customer relationship
- Customer management tools for administering your billing, network configurations and call volumes, such as Q.Control
- Global connectivity to over 250 countries around the world

Qwest Total Advantage is available for large businesses that spend a minimum of \$500 a month on communications services. Qwest Total Advantage allows businesses to receive discounts on select services based on monthly revenue commitment to Qwest. Customers that purchase services under a Qwest Total Advantage agreement automatically receive a 90-day customer satisfaction guarantee.

Customers in the United States may use the Qwest Total Advantage™ agreement for a broad range of Qwest services, including Asynchronous Transfer Mode (ATM), Private Line, Frame Relay, Dedicated Hosting, Internet Port, Toll Free, Long Distance Switched and Dedicated Voice, and Audio Conferencing. Availability of these services varies by product.

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Business

RCN Business

True, RCN is not the only company that can claim to have a fiber optic network in the most densely populated markets in the country. But what sets us apart is that RCN built its network to fulfill our serious, long-term commitment to the residential broadband market. This commitment gives RCN Business the technology, experience and knowledge needed to meet your business communications needs.

RCN Business delivers a robust suite of communications products & services over a rich broadband fiber-optic platform, the RCN MegaBand® Network. This network, which spans over 9,000 route miles including into suburban locations not served by the competition, was engineered and built with the latest advanced networking technologies for higher capacity and superior performance.

RCN's advanced networking technologies include protected electronics and Dense Wave Division Multiplexing (DWDM). In addition, the RCN MegaBand Network is fully redundant, employing self-healing SONET ring backbone architecture and localized nodes to ensure that bandwidth and connectivity are never compromised. Customers stay connected - with fewer electronics and lower maintenance costs than existing local networks.

We are committed to providing our customers with the highest level of customer support. We believe customer support begins with dedicated account teams and continues with the operational processes to back them up. RCN Service Managers are available via a toll-free telephone number 24 hours a day, 7 days a week, to ensure customers' network access and information delivery.

Small Business Handbook

Download RCN's Small Business Customer Handbook (PDF, 956 Kb) for all the features and instructions for cable tv, phone, and Internet services.



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RCN provides a full range of bandwidth options including SONET based DS-3, OC-3, OC-12, and OC-48, as well as Fast Ethernet and Gigabit Ethernet circuits. These options give you the ability to scale service offers to users ranging from basic telephony to complex applications. Advanced networking technologies include protected electronics, Dense Wave Division Multiplexing (DWDM), SONET transmission, and ring redundancy, ensuring bandwidth and connectivity are never compromised. In addition to these transport solutions, RCN offers web hosting, dark fiber, and colocation services.

RCN Business provides connectivity, bandwidth, network availability and operational management critical for today's complex business applications including:

- Metropolitan Transport Services with a full range of bandwidth options
 - ▶ SONET based DS-3, OC-3, OC-12 and OC-48
 - ▶ Fast Ethernet and Gigabit Ethernet
- Inter-city Backbone Transport Services
 - ▶ SONET
 - ▶ Wavelength
- Business Television
- Dark Fiber
- Hosting Services
 - ▶ Colocation
 - ▶ Managed Dedicated Server
 - ▶ Shared Web Hosting

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RCN Voice

With all the communication options available to businesses today, voice still ranks number one. It is an important component to relationship building with a personal touch. Finding a telecommunications provider that offers dependable, cost-effective solutions is critical. With RCN Business, your services are delivered over our state-of-the-art, fiber rich network, the Megaband Network®. We own, operate, and monitor our own network allowing us to ensure your services are delivered at the highest level and with an economical price tag. RCN Business offers you an alternative for your telecommunications services allowing your company to diversify its providers to ensure business continuity and redundancy.

In addition to local, long-distance and international services, we offer a full range of business telecommunications products including transport solutions, web hosting, dark fiber, colocation, dedicated Internet access and cable television services.

RCN Local Connect Services

- Business Lines
- Analog PBX Trunks
- Digital T1 Facilities
- ISDN PRI (Primary Rate Interface)

Business Features

- Call Forwarding Busy
- Speed Dialing
- Call Forwarding Variable
- Call Waiting
- Caller ID
- Multi-Line Hunting
- Remote Call Forwarding
- Call Forwarding Don't Answer
- Three-Way Calling
- Toll Blocking
- Voice Mail

RCN LD Connect Services

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Our long distance services lets you keep in touch with the world. We offer competitive [rates](#) and reliable service over our fully redundant Megaband Network, ensuring connectivity.

Calling Card

- Operator Assistance
- International Origination
- International Termination
- Personal Identification Number (PIN)

Toll-Free Numbers

- Vanity Numbers
- Calling Area Restrictions
- Routing Control

RCN Business is dedicated to supporting the success of your business with affordable services, reliability, and 24x7 support, over our state-of-the-art Megaband Network.



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RCN Dark Fiber

If your company is looking for a cost-effective solution to expand your network or to create additional route diversity for high-bandwidth applications, RCN is the place to start. RCN offers its dark fiber and conduit in seven major metropolitan areas under 5, 10, and 20 year Indefeasible Rights of Use (IRU).

RCN has constructed networks in metropolitan areas that can be extended directly to businesses and buildings requiring fiber connectivity. The metro networks connect the RCN data centers to key traffic aggregation points such as central offices and carrier hotels.

With customer leased fiber networks, your company controls the fiber and can choose the service provider for services such as telephony, CATV, and Internet. In addition, the RCN Network supports the latest advanced networking technologies, including: SONET, ATM, and Ethernet devices at either end of the fiber connection.

Leasing fiber provides you with tangible benefits:

- Reducing local loop telecom costs
- Provides the flexibility, security, and reliability you need to manage your own private optical network
- Ability to deploy redundant paths to multiple carriers
- Carrier hotels feature meet-me-rooms where fiber cables can be cross-connected to any service provider within the building

The RCN Megaband Network is a state-of-the-art broadband fiber-optic platform, which expands over 9,000 route miles. This network is built with the latest advanced networking technologies for superior performance. The fully redundant Metropolitan Area Networks employ self-healing SONET ring backbone architecture and localized nodes, ensuring that bandwidth and connectivity are never compromised.

RCN is committed to supporting the success of our customers with affordability, high quality service, and reliability.

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