



How can I receive Layer 2 Quality of Service in a data transport solution?

BellSouth® Metro Ethernet Service offers three configurations to meet specific bandwidth and speed requirements for transporting converged applications.

At a Glance

- Purchase committed bandwidth at speeds of 10/20/50/100/250/500 Mbps
- Support network convergence and high-bandwidth applications like video, VoIP and data mirroring
- Aggregate data for transmission over wireless networks
- Bursting capability to exceed committed bandwidth
- Optional features include Customer Network Management, Q-Forwarding aggregation and traffic prioritization
- Best-effort and Dedicated configurations also available
- SLA commitments for network availability, latency and TTR

Taking Ethernet to the Next Level

BellSouth® Metro Ethernet Service complements the scalability, flexibility and transparency of Ethernet with the reliability of a carrier class network. Metro Ethernet brings added functionality to a familiar technology, empowering customers to access large volumes of data and run bandwidth-intensive applications - while minimizing technology and training costs. Carriers that require Ethernet Quality of Service (QoS), port aggregation and finer increments of bandwidth can utilize this high-speed transport solution to interconnect end-user customer's LANs, provide Direct Internet Access, or serve as infrastructure transport. The service can also be used to aggregate data for transmission over wireless networks.

With Metro Ethernet, you can subscribe to incremental speeds of 10, 20, 50, 100, 250 and 500 Mbps. Gain flexibility and control over your network and support the convergence of voice and video over IP, business continuity and data/storage center connectivity. By only purchasing the bandwidth you need, you can benefit from greater network efficiency.

Enhanced Features and SLAs

BellSouth Metro Ethernet provides advanced Layer 2 features, including committed bandwidth at tariffed speeds, bursting capabilities, traffic prioritization, Virtual Local Area Network (VLAN) stacking with port aggregation and Customer Network Management (CNM). The service provides transport options ranging from 10 Mbps through 1 Gbps with **Premium, Dedicated** and **Basic** configurations to meet specific customer needs.



QoS and high availability enable BellSouth to offer Service Level Agreement (SLA) commitments guaranteeing 99.9% network availability, latency of 55 milliseconds or less and time to repair (TTR) of four hours.

All BellSouth Metro Ethernet Premium connections are offered at rate speeds of committed bandwidth - minimum bandwidth across the switched core network that is always available to transport data from a specific customer location. Committed bandwidth is available in two modes:

- **Fixed Mode** provide for a specific amount of committed bandwidth, as defined by the selected connection rate.
- **Burst Mode** connections give Premium customers access to bandwidth beyond their committed rates. Carriers can "burst" up to their physical port speeds when excess bandwidth is available. Burst Mode is provisioned on a per-line basis and is not required for all ports within the customer network VLAN.

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Optional BellSouth Metro Ethernet Premium Features

The following Premium features are optional:

- **Priority Plus** – Traffic can be prioritized using 802.1p-based low-latency queues for delay-sensitive applications such as VoIP.
- **Metro Ethernet Reporting (MER)** – This CNM function uses a Web-enabled Graphic User Interface (GUI) to provide alarm surveillance, SLA and performance reporting for the various components of the customer's BellSouth Metro Ethernet Service network.
- **Q-Forwarding** – This option provides aggregation across a common physical connection by utilizing 802.1Q tag forwarding, which encapsulates one VLAN within another VLAN. Carriers can partition the Metro Ethernet network into separate broadcast domains for resale to ISPs or other customers who may, in turn, transport their own VLAN-tagged traffic. Q-Forwarding also enables port aggregation at the host location, which means carriers can aggregate traffic from multiple VLANs across a common Metro Ethernet interface (egress port and access line) to a central location.

Flexible, Scalable Network Solutions to Meet Evolving Needs

Metro Ethernet uses BellSouth's reliable optical network to provide configuration flexibility that meets carrier-specific requirements. In addition to Premium Service, the following best-effort configurations are offered:

- **Dedicated Service** delivers 100 Mbps or 1 Gbps point-to-point Ethernet connections between two customer locations.
- **Basic Service** provides 10, 100, and 1000 Mbps port speeds and supports "many-to-many" and point-to-multipoint ("hub-and-spoke") logical traffic configurations.

Why BellSouth?

BellSouth is your logical choice for secure, reliable high-speed Ethernet interconnections. Leading-edge network design and award-winning customer support combine with carrier-class Metro Ethernet access to offer unique solutions. When your network needs speed, performance, scalability and reliability, BellSouth has the exceptional service, support and technology necessary to keep you -and your customers - competitive in today's market.

Metro Ethernet Value Proposition:

- **Value:** high bandwidth at a low relative cost
- **Cost Savings:** minimal customer CPE investment and lower cost per bit than other transport methods
- **Transparency:** leverage existing experience in managing, maintaining and troubleshooting Ethernet networks
- **Scalability:** full interworking between existing 10 Mbps, 100 Mbps and 1000 Mbps service; future 10 Gbps and Mid-Band service
- **Proven Technology:** dominant networking protocol with more than 95% of all LANs in North America running Ethernet; virtually no risk of near-term obsolescence

For more information regarding BellSouth® Metro Ethernet Service, please contact your BellSouth account team or visit us online at www.interconnection.bellsouth.com/products

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