



Metro Area Connection

TeraBeam's Metro Area Connection lets Local Area Networks separated by miles perform like a single LAN. By replacing the low bandwidths and protocols of the local loop with IP over Ethernet, LAN bandwidths and MPLS traffic shaping, TeraBeam smashes the limits of the traditional Metropolitan Area Network solutions. Metro Area Connection liberates your IT staff and enables the collaboration of geographically separated work teams so they can keep pace with your future.

Fast Provisioning Times

TeraBeam's Fiberless Optics™ delivers fast Ethernet connectivity across metropolitan areas. Because TeraBeam doesn't need underground or building riser access to connect to your network, we eliminate the long provisioning times associated with securing permits and constructing underground fiber networks. As a result, TeraBeam delivers LAN-to-LAN connectivity in a matter of days, not months.

The Simple Connection

Chances are your network technicians know IP and Ethernet protocols better than DS1, DS3, Frame Relay, ATM and SONET. TeraBeam's network runs on Ethernet, so there is no need to train IT staff on the subtleties of esoteric telco protocols. Since TeraBeam owns and manages the network access equipment, your staff is free to manage your LAN. TeraBeam assumes complete responsibility for tuning and optimizing the LAN-to-LAN connection for maximum performance.

Bandwidth Costs Within Reach

TeraBeam takes two steps to reduce the cost of high bandwidth. First, TeraBeam eliminates the process of securing street permits and constructing underground trenching required by copper and fiber-optic cables. Second, TeraBeam simplifies its network by using time-proven Ethernet and high performance IP protocols as the foundation of its network. The lower cost of TeraBeam's above-ground Fiberless Optical™ technology and IP protocols result in broadband connectivity pricing that is compatible with the budgetary constraints of your organization.

Liberating Metropolitan Networks with LAN-Speed Connectivity

TeraBeam's optical bandwidth enables new levels of productivity among geographically separated work groups. The effects of low-speed WAN connections are pervasive. IT managers deploy duplicate servers at each remote LAN. Design teams use overnight delivery and courier services. And everyone waits for large files to transfer. TeraBeam's new MAN provides LAN speeds up to 100 megabits per second to enable a new level of performance and opportunity for communication networks.



System Performance through MPLS technology

TeraBeam's MAN provides the speeds of optical signals over a high-performance IP network. To ensure flawless operation of low-latency applications such as video conferencing and remote site server access, TeraBeam employs MultiProtocol Label Switching. MPLS provides the deterministic quality IP traffic needs to consistently deliver low latency and low jitter for the most demanding applications.

- ▶ **Latency:** Latency will be no higher than 50 milliseconds roundtrip between edge routers at the customer premises.
- ▶ **Packet Delivery:** Packet loss will be lower than 1 percent.
- ▶ **Availability:** TeraBeam's Metro Area Connection is engineered to provide up to 99.9 percent systems availability to customers. If you choose to establish network redundancy through a T1 line, TeraBeam will be responsible for connecting the T1 to TeraBeam's on-site equipment.

Bandwidth Selections

TeraBeam provides connectivity at Ethernet or Fast Ethernet speeds.

Customer Care

You will have access to a dedicated advocate who will provide customer care during normal business hours. In addition, you'll have access to 24/7/365 support via a toll-free telephone number, and be notified within 15 minutes in the event of an outage. The mean time to repair an outage will average less than four hours.

Monitoring / Repair

TeraBeam Networks will proactively monitor network performance by checking the status of customer CPE every five minutes. Organizations can monitor the performance of the overall network by accessing weekly performance reports posted on TeraBeam's web site.

The Secure Solution

All of TeraBeam's Fiberless Optical links are encrypted to provide extremely high security. The security of the optical link is also insured because the optical stream is very directional and limited to a small diameter. As a result, only TeraBeam's customer site equipment can receive data sent from the TeraBeam network.

To ensure security in the core network, TeraBeam uses MPLS tunneling to transport data.

Provisioning Time

Managed Internet Service provides provisioning within 30 days from the date a service contract is signed. TeraBeam completely handles the installation of its equipment and lets your network engineers concentrate on your network. Since TeraBeam's field engineers deliver, install and configure all equipment, your engineers are free to concentrate on your LAN.

