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## IP Wide-Area-Work

### Secure the Benefits of an IP-enabled WAN Solution

- IP virtual private routing platform provides a fully-meshed network architecture
- Multiple access and configuration options available
- Automated alerts and a 24/7/365 network operations center
- Scalable bandwidth from 56 Kbps to 155 Mbps
- Carrier and transport agnostic, enabling multiple transport options for individual sites
- Implementation on a private, non-public network via Layer 3 (no data transported on the public Internet)
- Shared and dedicated routing platforms available with QoS options
- Industry-leading SLAs defining service, quality availability and response commitments
- Multiple transport options, including: private line, T1, Frame Relay, DS3, IDSL, SDSL

### LightEdge's IP-enabled WAN Services and Applications Connect Your Business

- Enable LightEdge's managed Internet access and firewall services
- Enable mission-critical business applications
- Connect e-mail servers and scheduling functions
- Centralize control of business applications and processes

### WAN Services with the Simplicity, Flexibility and Reliability of IP Networking

LightEdge meshed IP WAN is a next generation service designed to connect and integrate network operations for headquarter and remote locations. Meshed IP WAN combines the security and reliability of traditional WANs with the flexibility, simplicity and scalability of IP-based services. Choose LightEdge as your data communications and internetworking partner, and benefit from our state-of-the-art fully-meshed IP network architecture, unparalleled service commitments and our expertise as a premier provider of data communications solutions. Our internetworking experts will work with you to design and build an operating IP WAN solution that is optimized to meet your performance and cost requirements.

### Meshed IP WAN Solutions

Traditional WAN architectures route all connections through a headquarter location using a traditional "hub-and-spoke" architecture, creating a single point of failure and reduced overall reliability. LightEdge Meshed IP WAN solutions use the LightEdge carrier-class, redundant core network as the WAN center, providing multiple redundant paths with no single point of failure, resulting in increased reliability over traditional WAN solutions.

#### More Efficient

Because all connections route through the LightEdge core network, Meshed IP WAN reduces Permanent Virtual Circuits (PVCs) or connections and bandwidth needed at the host site to manage all services. This reduces dependency on the corporate site and lets LightEdge network experts manage the WAN and services.

#### Flexible and Scalable

Multi-carrier access integration provides simpler contracts, a single bill and 24/7 troubleshooting. With traffic routing through the LightEdge host network, adding sites and services is easier and requires no costly, time-consuming upgrades to the corporate site.

#### Secure

LightEdge controls link quality and security at the network entry point, eliminating the need for tunneling and encryption.

#### Virtual Private Router

LightEdge IP WAN solutions implement a managed Layer 3 dedicated routing platform via a virtual private router (VPR) residing in the hosting center, with no exposure to the public Internet. Fully-meshed network enables direct communication between remote sites and eliminates the need to pass data through a traditional headquarter site.

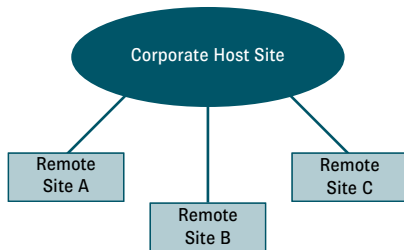
#### Cost-effective, High-performance Solution

IP WAN from LightEdge provides the advantages of a highly-reliable, fully-meshed, redundant network architecture, housed in our multi-homed, multi-city carrier-class network core. And LightEdge IP WAN solutions can provide a significant cost savings over many traditional WAN solutions.



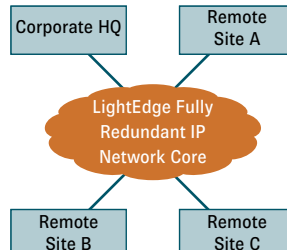
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## Traditional WAN



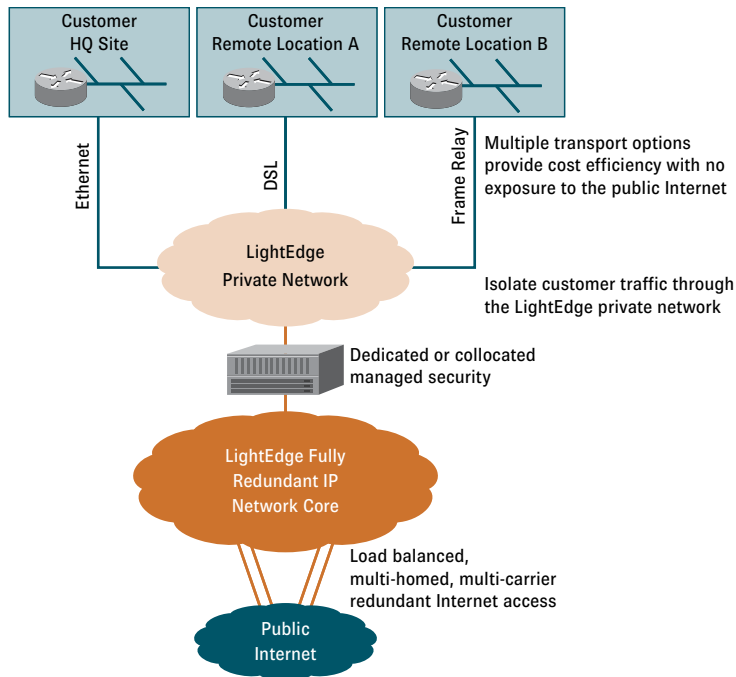
- WAN traffic routes through customer host site
- Single point of failure
- Costly upgrades to HQ site required for additional sites or services

## LightEdge IP WAN



- WAN traffic routed through LightEdge fully redundant, multi-carrier, multi-homed core network
- No single point of failure for increased reliability
- Easy to scale for additional services and sites
- Cost effective and easy to manage

## IP WAN Platform



LightEdge IP WAN provides a fully meshed IP platform that makes it easy to scale to accommodate additional sites or services. LightEdge also offers Business Internet, Remote Access, E-mail, and Hosting solutions which can easily be added to your IP WAN from a complete, single vendor.

### Performance

Committed Information Rate (CIR)	100%
Packet loss	4% or less
Mean time to response	15 minutes (automated)

### Reliability

- Carrier-grade hardware platform
- Fully-redundant switch fabric
- Multiple diverse SONET transport paths
- Distributed routing and switching
- Proactive monitoring at multiple network layers

### Flexibility and Scalability

#### Scalable Bandwidth:

- Port speeds of 56 Kbps to 155 Mbps
- PVC speeds of 32 Kbps to 45 Mbps
- CIR in 8K increments

#### Access Alternatives:

- T1, DS3, OC-3, xDSL
- Frame Relay, ATM, PPP/L2TP
- Ethernet 10/100 and Gigabit Ethernet

### Compatible Protocols

The standard IP WAN service supports IP only. The optional dedicated routing hardware is network protocol independent. Network protocol compatibility is determined by the CPE (IP, IPX, AppleTalk®, SNA, OSPF, etc.). CPE must support synchronous serial WAN services (Frame Relay).



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