



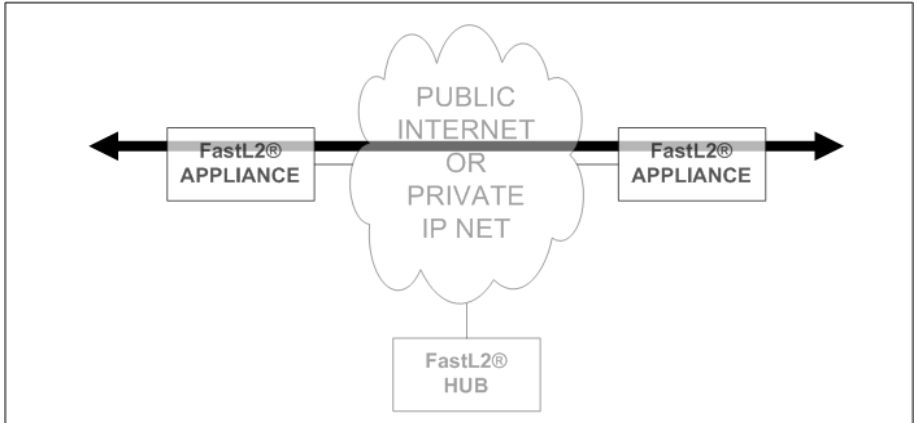
## Quick Facts

- Transparent Ethernet circuits over any public or private IP network
- Technology is also known as:  
E-Line  
Ethernet Pseudo Wire  
Layer-2 VPN  
Ethernet Point-to-Point  
LAN-Extension
- Rapid deployment
- Secure
- Available as a service, as a product set or as a combination
- Used for fluid edge of critical networks, SCADA/DCS, remote maintenance, Telco Access Circuits, DR, backup and many others
- Rugged hardware
- Smart topologies combine the best of Layer-3 Routing and Layer-2 Ethernet
- Patent-pending technology available for licensing and embedding

[www.yr20.com](http://www.yr20.com)

## FastL2® At a Glance

### Transparent Point-to-Point Ethernet Circuits over any Public or Private IP Networks



#### Transparent Ethernet Circuits over Any IP Network

FastL2® creates transparent Ethernet circuits. These circuits can be used for plain IEEE802.3 Ethernet traffic or can be used for IEEE802.1Q Ethernet VLAN trunks.

FastL2® can be deployed over almost any IP network. It is tested and known to work over Leased Circuit Internet, xDSL Internet, Cable Internet, 3G Cellular Internet, VSAT Satellite Internet and Inmarsat and Iridium Satellite Internet.

FastL2® works through DHCP, Firewalls and NAT, almost always without the DHCP, Firewalls and NAT requiring any change.

#### Technology at Low Cost

The transparent point-to-point Ethernet circuits that FastL2® delivers are known by many names. The Metro Ethernet Forum calls them E-Line services. The Internet Engineering Task Force (IETF) calls

them Ethernet PseudoWires.

Both telcos and customers are moving to large-scale Ethernet deployments for several reasons; no telco involvement in customer private IP networks, simpler telco/customer demarcation, better security and easier operations and management.

Many telcos provide Ethernet services over their SDH, SONET and MPLS networks and give them brand names such as LAN Extension. Whatever the name, these are well-proven telco services for the core of customer networks. FastL2® now makes it possible to standardize and rapid-deploy these services at low-cost over commodity Internet to the edge of the network.

#### Rapid Deployment

If the FastL2® hardware appliances are available at both ends of the required Ethernet circuit then a service is usually up and running in minutes with no advance engineering.



## Products and Services for Mission Critical Networks

### Secure

FastL2<sup>®</sup> creates a closed, trusted Virtual Private LAN (VPL) over an open, untrusted public or private IP network.

FastL2<sup>®</sup> uses the same general hub-based architecture as Internet-based realtime media services such as Skype, GoToMeeting and Webex. This allows both ends of the FastL2<sup>®</sup> service to operate from behind DHCP, NAT and Firewalls.

FastL2<sup>®</sup> uses the OpenSSL software system for strong authentication and encryption. By default FastL2<sup>®</sup> uses AES-128 encryption. There are variant options for other encryption systems, customer control of keys, regular key changes, keys on USB dongles and many others.

The use of smart topologies can continue the use of a customer's existing secure LAN technologies and the FastL2<sup>®</sup> appliance can require the presence of a secure USB dongle to operate.

### Service, Product or Combination

FastL2<sup>®</sup> is available as a pure service with rented appliances and the use of one of the five global YR20-operated FastL2<sup>®</sup> hub PoPs located in US-East, US-West, US-South, EU-West and AsiaPacific.

FastL2<sup>®</sup> is available as a product set to be owned and operated by the customer with the FastL2<sup>®</sup> hub PoPs located in the customer's datacenter facility.

Service and product arrangements can be combined in a number of ways to suit a customer's technology and business needs and preferences for capex, opex, in-sourcing and out-sourcing.

### What is FastL2<sup>®</sup> Used For

FastL2<sup>®</sup> is used in a variety of ways.

Telcos can use FastL2<sup>®</sup> for off-net access circuits, for urgent requirements where the normal 60-90 day provisioning is not acceptable, for DR services and for circuit backup.

Corporations can use FastL2<sup>®</sup> for secure SCADA/DCS industrial networks over commodity Internet or private IP networks, for remote maintenance of assets, for mobile sites such as vehicles, construction sites and for traveling teams.

### Rugged Hardware

The FastL2<sup>®</sup> appliances were developed for rental to mobile and industrial customers and were first deployed in the the offshore Oil & Gas industry. Accordingly the FastL2<sup>®</sup> Appliances are small and ruggedized.

### Smart Topologies

For customers who are considering using FastL2<sup>®</sup> as a strategic solution, we have a range of smart topologies and engineering services to combine the best of existing switches, routers, security and FastL2<sup>®</sup> to standardize and simplify distributed industrial and edge networks.

### Licensing and Embedding

For customers who manufacture high-value industrial equipment we can license our patent-pending technology, hardware and software to be embedded in your equipment. This will be of significant interest for remote maintenance and remote operations applications.

YR20 was formed in 2001 to address the engineering, commissioning and maintenance issues associated with the Oil & Gas industry using TCP/IP networks for critical traffic. The company has now worked for over 50 Oil & Gas operating and supply companies to engineer, commission, and maintain critical networked IT systems. YR20 has the necessary products, tools, and personnel ready for worldwide deployment in any challenging network or industrial environment.

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