



GLOBAL CROSSING ETHERLINE™

Ethernet is both a prevalent and a widely understood protocol especially in the LAN environment. It has a reputation for being both cost effective and reliable. Constrained for many years to the LAN environment, recent advances in fibre optic technology and switching electronics, as well a greatly reduced bandwidth costs, have meant that it is now both possible and cost effective to extend Ethernet services across both metropolitan and national networks. Using Ethernet across the WAN and MAN greatly simplifies both network design and management overhead as well as offering far higher levels of bandwidth at much lower cost than traditional leased line based services.

Global Crossing's portfolio of National and Metropolitan Ethernet services is extensive and includes Global Crossing Ethersphere™, Global Crossing Etherline™ and Global Crossing Bespoke Ethernet. Collectively, these services provide:

- Unprecedented security
- A choice of dedicated or shared bandwidth
- Flexible bandwidth upgrades
- Point-Point, Point-Multipoint or Multipoint connectivity
- Pop-Pop and Premise-Premise service hand-off
- Single Point of Contact for all Wide Area Network requirements
- Single Bill
- A choice of leading edge or tried and trusted service options
- National UK coverage
- Bespoke approach to each customers requirements
- Specific Service Level Agreements

BENEFITS OF IMPLEMENTING ETHERNET SERVICES

Flexibility - Pay for what you need now rather than what you may need in the future, by selecting the CDR that best fits your specific requirements. Upgrade this in hours and then pay for the additional bandwidth as your business needs grow.

Reduced Downtime - The beauty of Ethernet is realised when you want to change the CDR between any of your locations - no truck roll is required, no physical changes are needed and therefore downtime during upgrades is practically eliminated.

Cost Savings - Ethernet services are more cost effective than legacy WAN services and Ethernet interfaces are extremely low cost (most Routers include them in base

configurations now). The ease of managing a transparent Ethernet LAN/WAN improves cost savings through the use of existing LAN management tools and skilled resource.

Revenue Generation - With the bottlenecks removed in the WAN, businesses can use the increase in capacity to deliver new or enhanced services that will generate previously unavailable revenues.

Consolidation - Servers have traditionally been dispersed throughout the network, due to bottlenecks in the WAN, to provide end users with better response times. To assist with management and maintenance, network managers have had to employ third party providers with costly maintenance and support agreements. By removing the bottleneck, Ethernet changes the rules, allowing consolidation of server resources into centralised locations.

WHAT IS ETHERLINE™?

Etherline™ is a resilient, cost effective managed service providing flexible connectivity between any two locations using virtually concatenated SDH backbone network capacity (from 4Mbps to 100Mbps) to achieve the desired throughput.

Global Crossing has extensive National and Metropolitan coverage throughout the UK with over 100 Points of Presence (PoPs). Global Crossing will allocate a Committed Data Rate (CDR) to meet your specific requirements. Global Crossing offers competitive Service Level Agreements due to the highly resilient build of our SDH network infrastructure. Should a failure occur SDH offers protection options to ensure your traffic will re-route in less than 50ms.

SERVICE OPTIONS

Point-Point- This is a transparent Ethernet connection between any two locations allowing extension of the LAN between sites. The service supports both untagged and tagged VLAN traffic as described in IEEE802.1Q.

SECURITY

All customer ports are physically separate. SDH uses separate transmission paths for each individual connection meaning your traffic is kept secure at all times. Etherline™ is a layer 2 service and is incapable of being compromised by potentially insecure layer 3 (Internet) traffic.

FEATURES

Etherline™ offers many benefits and significant improvements over legacy WAN solutions.

- **Connectivity** 10, 100Mbps interfaces.
- **Secure** Ethernet over SDH with separate transmission paths.
- **Resilient** SDH uses protected paths to offer sub 50ms restoration.
- **Scalable** Select the Committed Data Rate to meet your requirements 4Mbps - 100Mbps.

ETHERLINE AT A GLANCE

FEATURE	ETHERLINE™ OPTIONS
Connectivity options	10Mbps, 100Mbps
Committed Data Rates	4,6,8,10,12,14,16,18, 20, 50, 100 n x STM1 for 100Mbps
Tail Circuits	10Mbps, 100Mbps
Interfaces	10/100 - RJ45
Backbone Technology	Layer 2 Ethernet over SDH
Service Availability Target	99.99% Pop-to-Pop, 99.9% Premise-to-Premise
Fault Response Target	4 hours
Fault Restoration Target	8 hours
Delivery Targets	20 working days Pop-to-Pop 65 working days Pemise-to-Premise
Coverage	Frankfurt, National UK including Metro London
Contract Period	1-5 years
Customer Service	Central support and proactive management available 24 x 7 x 365

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