



Switched Gigabit IP delivers low-cost managed IP connections at up to 1Gbps

COLT Switched Gigabit IP provides high-speed IP connections for connecting head offices and data centres in a corporate network, typically within the metropolitan area. It can extend the bandwidth capabilities of an Internet protocol virtual private network (IP VPN) – the top speed of an IP VPN is usually 155 megabits per second (Mbps), but with Switched Gigabit IP you can link in sites at up to one gigabit per second (Gbps), and at a lower cost per megabit.

- ▶ Connects sites at up to 1Gbps in any of COLT's 32 European cities
- ▶ Offers flexibility and scalability, with a wide choice of bandwidths between 2Mbps and 1Gbps
- ▶ Supports many different routing protocols
- ▶ Simplifies your telecommunications arrangements by ensuring one provider for all your network needs – both connections and equipment – and one local relationship for pan-European service delivery
- ▶ Provides two Classes of Service, Standard and Premium, enabling the service to carry voice and video

Exceptional reliability

Switched Gigabit IP is normally provided as a ring. If a fibre break should occur, traffic is re-routed around the network. We can provide dual switches at each site so there is no single point of failure. Availability is greater than 99.999% or “five nines”. We can also support other topologies, such as multiple point-to-point links and hub-and-spoke.

Per-flow load balancing

The ring topology has load balancing – traffic can travel in both directions to maximise the usage of the service. Per-flow load balancing ensures that the traffic in each flow is kept together, enabling the service to carry real-time traffic such as voice and video.

Multiple interfaces support VLANs

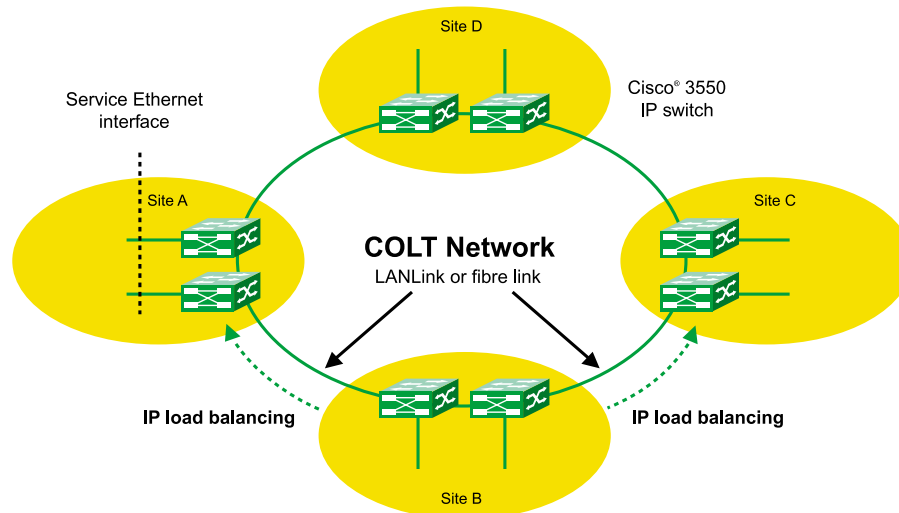
Using Cisco® 3550 switches, Switched Gigabit IP's customer premises equipment (CPE) provides up to 20 Fast Ethernet interfaces (100Mbps) which enable local Ethernet switching, and two Gigabit Ethernet (1Gbps) interfaces. You can use these to set up virtual LANs (VLANs) that segregate LAN traffic. You can use them to segregate different customers' traffic on your LAN, for example, or you can set up different features on different VLANs, such as support for different Classes of Service.

Online performance reporting

You can track service performance online and in real time. We provide utilisation statistics in a report showing how efficiently the network is being used. You can measure performance per Class of Service.

Switched Gigabit IP

A typical four-site ring-architecture network, with dual CPE for high resilience



Technical specifications

Network coverage	MAN
CPE available	3550-24-SMI 3550-24-EMI
Transport technology	Ethernet COLT fibre Partner Ethernet circuits
Service bandwidths	2, 4, 6, 8, 10, 50, 100Mbps and 1Gbps
Protocol supported	IPv4 with Ethernet II encapsulation
SLA:	
On-net, Off-net Tier 1 (in COLT countries)	100%
Off-net Tier 2	99.90%
Service level guarantees against SLA	✓
Class of Service	Two (Premium, Standard)
Resiliency options	Ring architecture Protected point-to-point circuits Dual CPE
Multiple Ethernet interfaces	Max. 20 (additional available on request)
Online reporting	✓
Routing protocols supported	RIP, Static, BGP, OSPF, EIGRP

Subject to COLT standard contract terms.

Contact COLT

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