

BT Ethernet Connect Global

Networks that think



When you need a global Ethernet VPN that you can rely on, Ethernet Connect is the intelligent choice

Adaptive, high performance Ethernet

Ethernet Connect Global is the next generation, adaptive, high performance Ethernet Wide Area Network service connecting sites around the globe. Ethernet Connect's strength lies in its flexibility to support a wide range of business requirements. Affordable and reliable, it is the ideal Ethernet service for corporate and government organizations.

Adapt to a changing world

Ethernet Connect enables you to choose from a pre-defined set of "building blocks". With this flexible approach, you can not only address your immediate requirements, but also reconfigure the service to meet your future needs.

- **Maintain end-to-end control of IP** - With Ethernet Connect you retain exclusive control of your architecture, IP version, addressing scheme and routing tables.
- **Freedom to innovate** - Ethernet Connect is the ideal innovation platform on which to build capabilities not available in IP VPN's such as different types of multicast.
- **Data centre friendly** - Ethernet Connect is ideal for the special requirements of data centres including the support of virtual machine environments split across sites.
- **Protected bandwidth** - for your critical applications, Ethernet Connect E-Line gives you protected bandwidth between sites.
- **Evolving the legacy** - Ethernet Connect is the ideal evolution for ATM, frame relay and private circuits, offering increased bandwidth, improved bandwidth scalability and lower total cost of ownership.

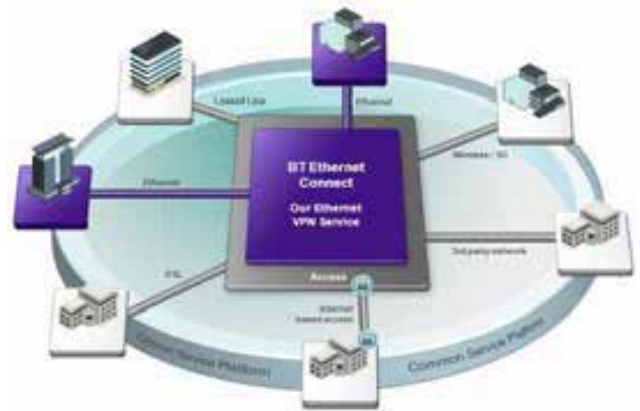
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Evolving to meet your needs

Ethernet Connect is a family of evolving Ethernet VPN services with domestic, in country, and international, cross border, coverage. With Ethernet Connect you can create E-Line and E-LAN services. Ethernet Connect “E -Line” allows you to create E-Line Private Line or Ethernet Virtual Private Line configurations. Ethernet Connect “E -LAN” allows you to create E-LAN services, which are also called Ethernet Virtual Private LAN services (VPLS), offering any to any connectivity between sites.

Ethernet Connect has been designed to offer you a set of flexible, “building blocks”. These can be ordered and combined in different ways. They can be changed over time to adapt to your organisation’s changing needs. Ethernet Connect’s features include:

- **Native Ethernet service** – Ethernet Connect gives you the complete freedom over your end-to-end architecture that you would expect from layer 2 services.
- **BT Ethernet Access** – The foundation of the Ethernet Connect network is the BT Ethernet Access. Available via copper or fibre delivery and a range of resilience options, the Ethernet Access connects you to the Ethernet Connect Service.
- **Ethernet Connect Virtual Connections** – These allow you to choose service types, speeds and classes of service for each virtual connection. You have the flexibility to create networks configured as Ethernet Private Line, Ethernet Virtual Private Line and Ethernet LAN services, also known as Virtual Private LAN Services. You can choose the speed from 2Mbps to 1Gbps and the classes of service to match the service to your organisation’s exact needs.
- **National and international coverage** – Ethernet Connect’s geographic coverage is continuing to grow with International coverage between 55 countries in Africa, Asia Pacific, Europe, Latin America and North America. And deep domestic coverage in Belgium, Germany, Ireland, Italy, Luxemburg, Netherlands, Spain and the UK.
- **Unbundled service** – The standard Ethernet Connect service is supplied without CPE equipment – giving you freedom of choice when designing, implementing and supporting your network. BT supplies a range of complementary managed services from network supply to a fully managed solution, depending on your needs.



Improved service and agility

There are two elements to the Ethernet Connect portfolio:

BT Ethernet Access

BT Ethernet provides the physical connectivity to BT’s network. And depending on the BT Ethernet Access is available as:

- Ethernet over fibre at 10 Mbps, 100 Mbps, 1 Gbps and 10 Gbps and sub-rate speeds where available.
- Ethernet over copper from 1Mbps to 10Mbps
- Standard, Protected, Diverse and Diverse Plus resilient options.

Ethernet Virtual Connections

The Ethernet Virtual Connection (EVC) defines the connectivity between sites:

Ethernet Connect “E -Line”, EVCs are Ethernet Line Services (E-Line). Enabling the creation of Ethernet Private Line (EPL) point-to-point, or Ethernet Virtual Private Line (EVPL) point-to-multipoint and meshed networks.

- Ethernet Connect “E -LAN” Ethernet LAN Service also called Ethernet Virtual Private LAN service (VPLS) allows you to create any to any networks.
- Bandwidth speeds are available in small increments up to 1Gbps.
- Multiple classes of service are for E-Line and E-LAN services.

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Customer Interface options

- 10 Mbps BT Ethernet – 10Base-T
- 100 Mbps BT Ethernet – 10Base-T
- 1Gbps BT Ethernet – 1000Base-SX or 1000 Base-LX
- 10Gbps BT Ethernet – Available on application

Ethernet Virtual Connection speeds

Ethernet Virtual Connections speeds are: 2Mbps, 3Mbps, 4Mbps, 5Mbps, 6Mbps, 7Mbps, 8Mbps, 9Mbps, 10Mbps, 15Mbps, 20Mbps, 25Mbps, 30Mbps, 35Mbps, 40Mbps, 45Mbps, 50Mbps, 60Mbps, 70Mbps, 80Mbps, 90Mbps, 100Mbps, 150Mbps, 200Mbps, 250Mbps, 300Mbps, 350Mbps, 400Mbps, 450Mbps, 500Mbps, 600Mbps, 700Mbps, 800Mbps, 900Mbps, 1Gbps

Classes of Service

Ethernet Connect offers multiple classes of service over a single EVC with the following performance classes:-

- High, Medium (Green / Yellow), Low (Green / Yellow)

Frame size

The maximum frame size supported depends on the local access provider. Typically the maximum frame size is limited to 1,662 bytes for international services and 9,000 for domestic services in Benelux and Germany.

International capabilities

Ethernet Connect domestic, in country, services are available in: Belgium, Germany, Ireland, Italy, Luxemburg, Netherlands, Spain, and the United Kingdom In addition there are international, cross border services using BT's own PoP's between: Australia, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Canada, Chile, China, Colombia, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, India, Ireland, Italy, Japan, Korea (Rep of), Latvia, Lithuania, Luxemburg, Mexico, Monaco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, United Kingdom, United States of America.

Service feature availability

As you would expect from an evolving service available in a large number of countries, the service features available will vary depending on your exact location. So please check with your account manager that the features you need are available.

Certification

Ethernet Connect has been certified by the Metro Ethernet Forum to MEF 9 & 14 for E-Line and E-LAN services.

High performance for data-intensive environments

Ethernet Connect has been specifically designed for customers with requirements that include:

Innovation

- Where you need to deploy leading edge capabilities such as multicast and IP V6.

Ownership of IP architecture

- Where you wish to retain end-to-end ownership and control of your IP addressing and router tables.

Data Centres

- To connect multiple data centres over a single Ethernet LAN and support Virtual Machine environments.

Protected Bandwidth

- Where you need to ensure critical applications have specified bandwidth between sites.

Evolving the legacy

- Ideal evolution for ATM, frame relay and private circuits, offering increased bandwidth, improved bandwidth scalability and lower total cost of ownership.

Extensive expertise

We have an extensive portfolio of network services to meet your requirements in the UK, Europe and the rest of the world.

Our capabilities recognized across the industry by analysts:

- Leaders quadrant of the Gartner's Global Network Service Providers Magic Quadrant¹
- Obtained an outstanding rating for product viability in Gartner's Critical Capabilities for Pan European Network Services²

¹ Gartner, Global Network Service Provider Magic Quadrant, March 2013

² Gartner, Critical Capabilities for Pan-European Network Services, March 2013
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