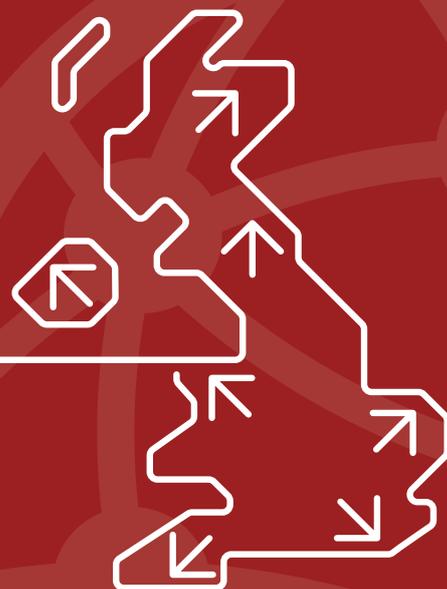# BT WHOLESALE ETHERNET

What you need to know

BT Wholesale Ethernet is a national layer 2 Ethernet service. It provides high-quality connectivity services to UK communication providers and offers full coverage across the UK for short, medium and long distance data applications. Read on to find out more about the benefits and values of each access option.

Ethernet access options

- **Etherway Fibre** - a fibre delivered access circuit
- **Ethernet in the First Mile (EFM)** or **Ethernet Copper** - multiples of copper pairs, bonded together to deliver the required bandwidth (up to 35Mbit/s)
- **Generic Ethernet Access (GEA)** - a combined fibre and single copper pair access service, based upon Fibre To The Cabinet (FTTC)
- **Etherway Radio** - a wireless delivery where fibre is too expensive to deliver
- **Etherway Exchange Connect (EEC)** - where a customer is located in the same building as one of our Ethernet nodes

- **Etherway Data Centre Connect (EDC)** - a low cost port hand-off at collocated data centres, 1GB and 10GB available. Current data centre connected sites:
  - Telehouse North (cross connects to provide connectivity to East and West)
  - Global Switch 1 (no link into Global link 2)
  - Next generation Data (Newport)
  - TeleCity Group (Joule House, Manchester)
  - SunGard (Elland, West Yorkshire)
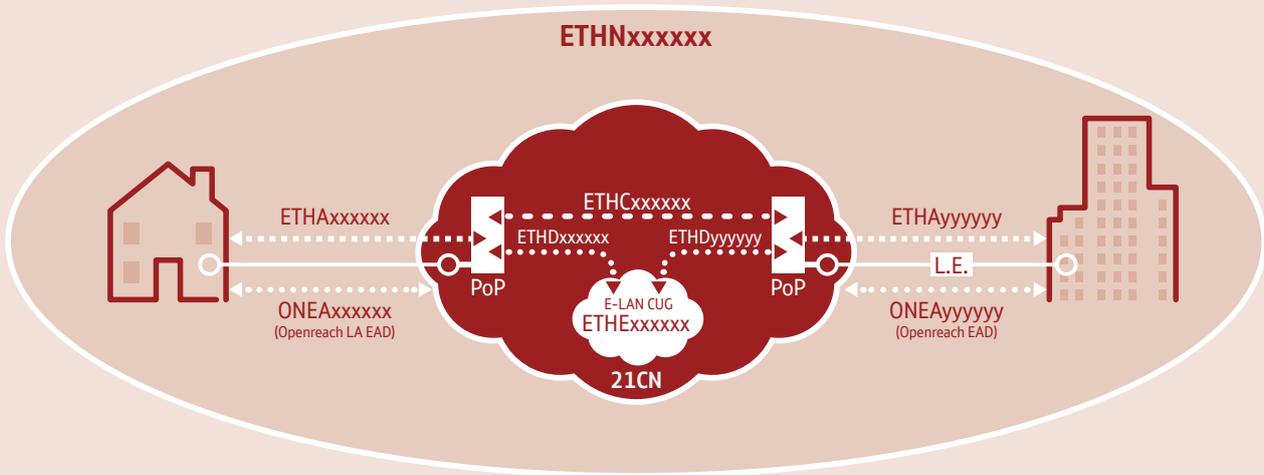 - Equinix London (LD5, Slough – can also reach LD4 building).

Ethernet access acronyms

ETHN – Network ID (used to identify closed set of Ethernet components that can be logically interconnected)

ETHA – Etherway

ETHC – Etherflow Connected (E-Line)

ETHD – Etherflow Dynamic (E-LAN)

ETHE – E-LAN CUG ID (Network terminating point for Etherflow Dynamic)

End-to-end Ethernet services

E-LINE – used for hub and spoke as well as point-to-point services

E-LAN – used for any-to-any site connectivity.

Service connection options

Depending on the physical interface your customer chooses, the following number of connections can be supported:

– **120 connections** – offered with the **10BaseT** interface option

– **120 connections** – offered with the **100BaseT** interface options

– **400 connections** – offered with the **1000Base-SX** interface option

– **400 connections** – offered with the **1000Base-LX** interface option

– **15000 connections** – offered with the **10000Base-LR** interface option.

Resilience and diversity

There are six resilience and diversity options for Etherway Fibre. These include:

Etherway Standard – a single path to customer from 21CN node

Etherway Protected – two paths working as Main/Standby with only one in use at any time

Etherway Diverse – two paths to a single node, from a single customer site. Both circuits can be used at the same time

Etherway Diverse Plus – two paths to separate nodes, from a single customer site. Both circuits can be used at the same time

Etherway Diverse Split-Site – same as Etherway Diverse, but with two separate customer sites. Two discrete circuits go to a single node but split at the customer end on two separate NTE

Etherway Diverse Plus Split-Site – same as Etherway Diverse Plus, but from two customer sites.

Types of Etherflow traffic

Premium - uncontended bandwidth –
1:1 (10MB = 10MB guaranteed)

Standard - contended bandwidth - 5:1 (10MB = 2MB guaranteed, + 8MB best effort)

Default COS - same as Standard but allows the customer to mark low priority traffic to protect important traffic (e.g. voice) if contention occurs

Multi COS - same as Premium but allows the customer to mark all traffic priority. Additional options for real time.

NB: Etherway GEA has default COS or Multi COS only.

Ethernet component lead-times

Wholesale Ethernet component type	Lead Time (working days)
Etherway (fibre) Standard, Protected or Diverse/+ (exc. 10Gb)	33 days
Etherway (fibre) 1Gb low-cost 5-year term	33 days
Etherway 10Gb (Pre-forecasted demand)	60 days
Etherway Copper	25 days
Etherway Data Centre Connect 1Gb	10 days
Etherway Data Centre Connect 10Gb (Pre-forecasted demand)	10 Days
Etherway Exchange Connect	30 days
Etherway Exchange Connect 10Gb (Pre-forecasted demand)	60 days
Etherway Superfast GEA (FTTC)	9 days*
Etherflow on existing Etherway	Within 1 working day

NOTE: All Wholesale Ethernet services are provided subject to survey. *4 day stabilisation period removed.

Pricing principles

- All Etherways have a connection charge and an annual rental charge

- All Etherflows have free connection and an annual rental charge.

Discount schemes

A Hub and Spoke discount scheme is available on Wholesale Ethernet:

Hub	Spokes	Discount
100Mbit/s	5 -9	50%
100Mbit/s	10 or more	100%
1000Mbit/s	10 -19	50%
1000Mbit/s	20 or more	100%
1Gb	30-59	50%
10Gb	60 or more	100%

NOTE: All Wholesale Ethernet services are provided subject to survey.

What customers have to say about Ethernet

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Wholesale Ethernet is a very important product for us. It enables us to deliver our hosted PBX service and provide data connectivity solutions over fast top quality circuits with maximum uptime.

Justin Orde
Joint Managing Director,
Spitfire

Our relationship with BT Wholesale is key. It underpins our broad portfolio of Ethernet-based products. Through this one relationship we gain access to the products and expertise we need.

Andrew Fox
Director Networks and
Connectivity, Timico

"

Why BT Wholesale?

Because we make things happen. It's not just about the product, it's the fact that by working with us, you can sell products which come backed by extensive industry knowledge, experience and a great reputation. With a focus on the question, Why BT Wholesale, expect to hear more from us soon.

Email **clientreception@bt.com** or call

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