Adaptive, high performance 21st century Ethernet

BT Etherflow is the next generation, adaptive, high-performance Ethernet Wide Area Network (WAN) service. Taking advantage of BT’s 21st Century Network (21CN), BT Etherflow’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 organisations.

Adapt to a changing world

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

- **Access high bandwidth** – With access speeds of 10Mbit/s, 100Mbit/s and 1Gbit/s, BT Etherflow’s high bandwidth and low latency make it the high performance choice for today’s data-intensive environments.
- **Maintain end-to-end control of IP** – With an Ethernet service, you retain exclusive control of your IP architecture, addressing scheme, routing tables and capabilities such as multicast.
- **Support non-IP applications** – BT Etherflow is designed to support non-IP protocols such as AppleTalk, DECNet and SNA, without the performance overhead of encapsulation.
- **Reduce total cost of ownership** – Almost all of your existing network equipment will include Ethernet interfaces as standard, so BT Etherflow can help you avoid the additional expense of new equipment.

Evolving to meet your needs

Taking advantage of BT’s 21st Century Network, BT Etherflow has been designed to offer you a set of flexible, orderable “building blocks”. These can be combined in different ways, and changed over time to adapt to your organisation’s changing needs. BT Etherflow’s features include:

- **Native Ethernet service**: BT Etherflow gives you complete freedom over your end-to-end IP architecture, multicast capabilities, and even support for non-IP protocols without the overhead of encapsulation. Compared to traditional leased line access, BT Etherflow can also reduce your total cost of ownership, as fewer site visits are required to carry out service changes.
- **BT Etherway Access**: The foundation of the BT Etherflow network is BT Etherway Access. Today, this allows you to connect to the Etherflow service. In future, it will also provide connection to other BT services such as IP VPNs, the Internet and voice, reducing the time to deliver new services, as well as the total cost of ownership.
- **BT Etherflow Virtual Connection**: This allows you to create Ethernet Private Line and Ethernet Virtual Private Line services between sites. You can then create your own point-to-point, point-to-multipoint and meshed networks. Traffic classes and speed options from 200Kbit/s to 1Gbit/s enable you to match the service to your organisation’s exact application requirements, without paying for excess bandwidth.
- **Customer Zone Online Portal**: A key feature of the BT Etherflow service, this single control panel gives you the power to manage all aspects of ordering the service – from quotation and ordering to tracking order progression.
- **National coverage**: BT Etherflow will offer complete UK coverage.
- **Unbundled service**: BT Etherflow is available as an unbundled service – giving you freedom of choice when designing, implementing and supporting your network. BT’s complementary range of managed services enables you to select options ranging from network supply to a fully managed solution, depending on your individual needs.
Improved service and agility

There are three key elements to the BT Etherflow portfolio, including:

**BT Etherway**
BT Etherway provides the physical connectivity to BT’s 21st Century Network. BT Etherway Access is available as:
- Ethernet over fibre at 10Mbit/s, 100Mbit/s and 1Gbit/s.
- Standard or Protected resilience options

**BT Etherflow Virtual Connection**
The BT Etherflow Virtual Connection defines the connectivity between sites:
- Ethernet Private Line and Ethernet Virtual Private Line, enabling the creation of point-to-point, point-to-multipoint and meshed networks.
- Scalable bandwidth from 200Kbit/s to 1Gbit/s.
- Classes of Service – Premium and Standard.

**Customer Zone Online Portal**
Using BT’s on-line portal you can:
- Create a quotation.
- Place an order.
- Change the bandwidth of a BT Etherflow Virtual Circuit in almost real time.
- View information on order progress and inventory information.

Customer Interface Types
10Mbit/s BT Etherway – 10Base-T
100Mbit/s BT Etherway – 100Base-T
1Gbit/s BT Etherway – 1000Base-SX or 1000Base-LX

End to End Service Availability
The end to end service availability targets including access are:

<table>
<thead>
<tr>
<th>Etherway Access Service Availability</th>
<th>1Gbit/s Standard</th>
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</thead>
<tbody>
<tr>
<td>100Mbit/s Standard</td>
<td>1Gbit/s Standard</td>
</tr>
<tr>
<td>99.93%</td>
<td>99.93%</td>
</tr>
<tr>
<td>100Mbit/s Standard Protected</td>
<td>1Gbit/s Standard Protected</td>
</tr>
<tr>
<td>99.97%</td>
<td>99.97%</td>
</tr>
</tbody>
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Network End to End Service Latency
The target maximum one way latency is:
Premium Traffic Class 10ms

Network end-to-end service Jitter
The target maximum Jitter is:
Premium Traffic Class 3ms

Frame size
The maximum frame size supported on the service is 1548 bytes.
High performance for data-intensive environments

BT Etherflow has been specifically designed for customers with requirements that include:

High bandwidth
- Where you need high bandwidth between a relatively small number of sites, such as data centres and large offices.

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

Non IP Applications
- To support applications that do not use IP addressing.

National coverage
- When your locations are spread across the UK, locally, regionally or nationally.

Service Providers
BT Etherflow is also suitable for service providers who wish to meet the needs of specific markets by creating their own IP services.

Strength and innovation

BT is the leading provider of communications services in the UK and is acknowledged as one of the top telecommunications providers in the world. We have unmatched expertise in designing, implementing and servicing voice, data, video and converged networks in the UK and worldwide.

BT has offered Ethernet services for over 17 years, and has over 33,000 services installed in the UK. In addition to supplying your network, we can also offer extensive management and ICT services to support your business.

As the fourth largest investor in R&D in the UK, BT’s experts are leading the development of global Ethernet standards. We are investing over £10 billion to install BT’s revolutionary 21st Century Network (21CN), which will have the greatest geographic coverage of any network in the United Kingdom. 21CN, with its dual vendor approach, sets the benchmark for resilience and security.

BT Etherflow will be launched in the UK in 2008.