



Bringing it all together

Short Haul Data Services

Fast, reliable, secure and affordable

When you want to connect sites that are close to each other, in the same town, city or region, Short Haul Data Services are the intelligent choice. With Ethernet speeds of 10Mbit/s, 100Mbit/s, and 1Gbit/s these services can go as fast as you need. With dedicated point to point optical fibre they have the highest performance, highest availability and highest security. And, for sites next to each other, in the same town, city or region, they are surprisingly affordable.

Affordable high performance

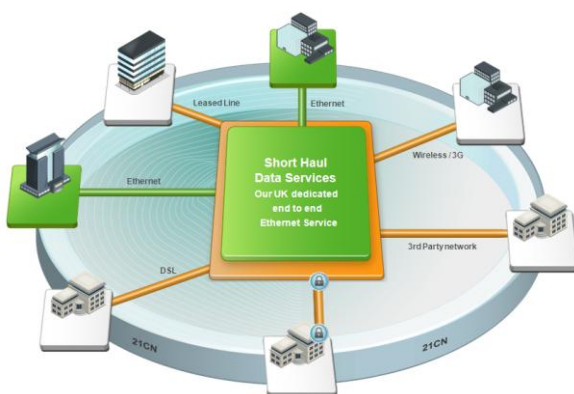
Our Short Haul Data Services are the ideal way to connect sites in the same town, city or region where LAN speeds are required to ensure application performance and improve operational efficiency. Their fixed price also makes them ideal for controlling costs.

- **Improve productivity** - Short Haul Data Services are high bandwidth, high performance, high availability, secure services ideal for supporting critical business applications.
- **Improved risk management and innovation** - With Ethernet interfaces and transparent transmission, Short Haul Data Services carry almost all protocols and so are ideal for legacy and future applications.
- **Operational simplicity** – As Short Haul Data Services use the same Ethernet technology as Ethernet Local Area Networks, they are easy to use and support.
- **Improved cost control** – With a fixed price and no usage charges, SHDS allows you to easily control costs and your budget.

Site to site connectivity

As organisation's change, connecting sites economically in the same town, city or region is often a challenge. Improving operational efficiency can depend on new applications demanding higher performance and ever greater bandwidth. These growing demands can strain budgets. Short Haul Data Services could be your ideal solution. Short Haul Data Services features include:

- **High bandwidth** - With Ethernet speeds of 10Mbit/s, 100Mbit/s and 1Gbit/s Short Haul Data Services go as fast as your need.
- **High performance** - As the service uses dedicated point to point optical fibre between your sites, you have the highest performance possible with data going in one end and come out of the other with the minimum of delay, almost no jitter or packet loss. So Ethernet Short Haul Data Services are ideal for performance critical requirements.
- **High availability** - Because Ethernet Short Haul Data Services are simple, they are very reliable. We offer a range of resilience options to meet all your availability needs, even for the most critical sites.
- **Secure** – Your sites could not be more secure with your own dedicated optical fibre.
- **Ethernet** – As Short Haul Data Services have Ethernet interfaces and transparent transmission, you have all the benefits of Ethernet: freedom to run legacy, latency sensitive applications, low cost equipment and easy speed upgrades.
- **Wide geographic availability** - Available where ever there is fibre, Ethernet Short Haul Data Services are available to over 99% of UK Business locations.
- **Affordable** - Short Haul Data Services are surprisingly affordable and often cheaper than a National Ethernet or IP VPN services. As the service is dedicated to you they have a flat charge and unlimited usage, so budgeting is easy.



Affordable high performance

Short Haul Data Services are really easy to own, there are a few simple choice to make: speed, resilience and power supply.

Fixed symmetrical Ethernet speeds

Short Haul Data Services have Ethernet interfaces and are available at fixed speeds of 10Mbit/s, 100Mbit/s or 1Gbit/s. depending on the service they have either optical or electrical presentation:

Service	Interface	Connector
10Mbit/s	10 BaseT	RJ45
100Mbit/s	100 Base TX	RJ45
1Gbit/s	1000 Base LX 1000 Base SX	Dual LC

Dedicated point to point optical fibre

The service uses dedicated point to point optical fibre between sites for transmission. The maximum radial and route distances between sites depends on the service:

Service	Radial distance	Route distance
10Mbit/s	25km	40km
100Mbit/s	25km	40km
1Gbit/s	25km	40km
1Gbit/s Extended Reach	35km	66km

Resilient options

We offer a range of resilient services to meet all your availability needs, even for the most critical sites:

- The standard service uses a single optical fibre between the NTE's at each site. Availability 99.97%
- Resilient Access Option 1 (RAO1) increases availability with a second diversely routed optical fibre between sites.
- Resilient Access Option 2 (RAO2) further increases availability by adding separate NTE's at each site. Availability

Power supply

The NTE is locally powered and offers AC or DC power options. The customer will need to provide either dual local 50 Hz AC supply in the form of standard 13 Amp power socket(s); or dual 50V DC power distributions and Earth connections. An additional 13amp socket is required for test equipment.

Site to site connectivity

Short Haul Data Services are ideal for any organisations that want to connect sites at LAN speeds and are 25km or less apart, or 35km or less for the 1Gbit/s extended reach service.

Extensive expertise

We have been providing Short Haul Data Services since 1983 and have installed over 33,000 services.

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

Our capabilities are well recognised across the industry by Current Analysis, Gartner and Forrester.

We are recognised for customer service. In Telemark's 2009 survey of Global Data VPN users and we won the world record award for consistently setting new service excellence standards.

Get in touch with your BT Account Manager to learn more about how Short Haul Data Services can help improve your operational efficiency

Offices worldwide

The services described in this publication are subject to availability and may be modified from time to time. Services and equipment are provided subject to British Telecommunications plc's respective standard conditions of contract. Nothing in this publication forms any part of any contract.

British Telecommunications plc 2009.
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Registered in England No: 1800000

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