


**HIGH CAPACITY SERVICES**

# Handling the big stuff

Your business relies heavily on the network and its ability to tackle seriously high levels of data traffic. It has to work all day, every day, even though gigabits of information are being moved every second. And a lot of that information hasn't got time on its side. It has to get from A to B right now.

All of this would be easier to do with a super-fast, always-on fibre-optic network. A lifeline that's able to cope with massive volumes, multi-protocol connectivity and low-latency transmissions.

That's where our High Capacity Services come in. Our solutions have been designed for LAN and WAN networking, Storage Area Networking and other data transmission needs where bandwidth-hungry and time-sensitive information is involved.

You also won't have the eye-wateringly high cost of installing and maintaining your own network. And with our High Capacity Services, you'll always have the latest and greatest technology capability. Put simply, no matter how much the world's data technology advances, you'll be right there, keeping up.

## Key facts



Get point-to-point connectivity which is ideal for data-heavy applications and services that require low latency and high levels of security.

- Enjoy dedicated support services that have been set out in our Service Level Agreements (SLAs).
- Get better coverage and reach to key communication facilities thanks to our extensive access to major UK Data Centres, Telehouses and BT exchanges.
- Use multi-protocol connectivity, including storage, LAN/WAN connectivity and video.
- Receive tailored project management services to ensure we meet our agreed deadlines.
- Benefit from a flexible network infrastructure. This means your network can adapt to your needs, whatever the future holds.

## High capacity. Higher productivity.

Our High Capacity Services are ideal for businesses that handle huge amounts of data, and where very low latency is an absolute must. The benefits can be used on various kinds of business solutions, including:

- Connecting multi-protocol storage environments over long distances.
- Extending your LAN environment across the UK, at 10Gbit/s or faster.
- Backhaul of traffic from the network edge to core.

Our High Capacity Services use fixed network paths across optical platforms to transfer your data, so your network acts like an adrenalin-charged multi-tasker. The system runs faster and supports multiple applications over a single connection. The network is also more reliable, so your business can stay up and running – all day and all night.

Our High Capacity Services are also fully managed and maintained by us 24/7. So your IT people are no longer caught up in handling this themselves and are now free to focus on other tasks.

## Your options

Our High Capacity Services are designed to help your business cope with the ever increasing bandwidth demands of the 21st century. Here's an introduction to the two headline services within our High Capacity Services portfolio:

### 1 In the Zone: Dedicated High Capacity Services

This service was purpose-built for sites that are within 100km of each other. It's an ideal solution for businesses that use massive amounts of data, where high security is essential, and is flexible enough to scale as your business demands change. It's an ideal solution for Data Centre and Backhaul connectivity, it offers up to 80 individual wavelengths between two points. The cornerstone of this service is its ability to handle multiple protocols and huge data traffic at set prices.

### 2 On a Bigger Scale: National High Capacity Services

With this service you have the great performance and transparency of Dedicated High Capacity Services but with one major difference, no distance limitation. You can connect multiple sites that are at opposite ends of the country using our national optical network platforms, at speeds up to 100Gbit/s.

	Dedicated	National
<b>Configuration</b>	Dedicated fibre based; Dense Wavelength Division Multiplexing (DWDM) technology; Non-switched point-to-point service	Optical network based; follows a fixed network path; dedicated bandwidth; point-to-point or point-to-multipoint service
<b>Protocols supported</b>	Ethernet, Fibre Channel, SDH and OTN	Ethernet, Fibre Channel, SDH and OTN
<b>Speeds and technologies</b>	Ethernet 1Gbps, 10Gbps and 100Gbps (LAN PHY and WAN PHY); SDH STM1, STM4, STM16 and STM64; Fibre Channel 1Gbps, 2Gbps, 4Gbps, 8Gbps and 10Gbps; FICON 1Gbps, 2Gbps and 4Gbps; OTN OTU0, OTU1, OTU2 and OTU4	Ethernet 1Gbps, 10Gbps and 100Gbps (LAN PHY and WAN PHY); SDH STM1, STM4, STM16 and STM64; Fibre Channel 1Gbps, 2Gbps, 4Gbps, 8Gbps and 10Gbps; FICON 1Gbps, 2Gbps and 4Gbps; OTN OTU0, OTU1, OTU2 and OTU4
<b>Scalability</b>	Highly scalable with up to 80 channels per system, Flexi Filter providing access to unused filter ports	Supports multiple service on a single platform
<b>Resilience</b>	99.9% up to 99.999%	99.9% up to 99.999%
<b>Availability</b>	National availability, maximum site-to-site radius of 100km	National availability, national reach
<b>Latency</b>	Ultra low latency with target sub 3ms (one way)	Low latency with target sub 5ms throughout the UK (one way)
<b>Maximum Transmission Units (MTU)</b>	10,248	9,212
<b>Power and space</b>	Choice of NTUs, all with low power consumption characteristics	Choice of NTUs, all with low power consumption characteristic