


Network Services

# Private Ethernet Circuits



# What are Private Ethernet Circuits?



## Quality assured infrastructure

TelecityGroup's Private Ethernet Circuits provide you with Ethernet links from 1Mbps up to multi-gigabit bandwidths between your hosted equipment in any of our data centres. TelecityGroup's core network connects our UK and European data centres onto a single fully-meshed network, supplemented by local networks in key locations. Ethernet is rapidly becoming the de facto protocol on the wide area network (WAN) and removes any requirement for expensive interfaces to telecom service-provider focused TDM network technologies such as E1, STM1, etc.

Our service is offered rack-to-rack, which means that you are provided with an Ethernet cable to plug into your equipment within each data centre. Unlike buying services from a third party telecom service-provider you won't need any additional equipment in your rack, and we take care of the integration of the WAN with the data centre infrastructure. And because we manage the network infrastructure ourselves we are able to offer rapid provisioning and scaleable bandwidth up to the multi-gigabit range in most locations.

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### Is it for me?

The service is designed for any company that has equipment in more than one of our data centres or needs to connect to a third party in a different data centre. Typical scenarios include: businesses that offer e-commerce services and need the higher availability provided by multiple data centres; integrators such as application service providers (ASP) who need to connect into their customers' data centres; and enterprises who need to interconnect several sites into a single high performance and secure private network.

Even if you don't currently have equipment in multiple data centres, you may find that when you need to expand, adequate space is not available at your existing data centre. Private Ethernet Circuits will allow you to treat these multiple sites as a single entity.

### What equipment do I require?

Any equipment with a native Ethernet interface should be compatible. If in doubt you can send us the make and model of your equipment and we can investigate.

### Related products

In some locations we can provide dark fibre connections between our data centres. This is useful if you want to link your data centres together for storage applications and want to use Fibre Channel for example. In addition to connecting your data centre sites, we are able to provide links to other sites, such as offices. Depending on location these links may need to be provided through leased lines such as E1, etc. We can also combine Private Ethernet Circuits with IP services, such as IP Multihome or load balancing, to provide you with high-availability network services.

### Why TelecityGroup?

TelecityGroup's fully-managed network is specifically designed to allow for easy provisioning of a range of bandwidths and resiliency options between our data centres. As such we are able to offer extremely fast delivery combined with very favourable pricing compared to traditional telecom service-providers. In addition we provide Ethernet termination directly to your rack, saving you on additional integration work and removing the need for any additional equipment. As a one-stop shop our services are also incorporated in the same contract, with consistently high support and service levels.

# Key benefits



## Rack-to-rack service

Our Private Ethernet Circuit is a rack-to-rack service, which means that the network is delivered directly to each of your racks in our data centres. We present you with an Ethernet cable and no additional equipment is needed.

## Competitive prices

We are able to offer this service at a discount compared to traditional telecom service-providers, who will typically charge you an additional integration fee to terminate the network in our data centre.

## Rapid provisioning

We can provision the service within one week, compared to one month or more from telecom service-providers.

## One-stop shop

By choosing TelecityGroup for Private Ethernet Circuits in addition to co-location and related services, you can benefit from a single contract,

with harmonised service levels and support agreements across all your services. This reduces management overhead and provides a consistent user experience.

## Native Ethernet

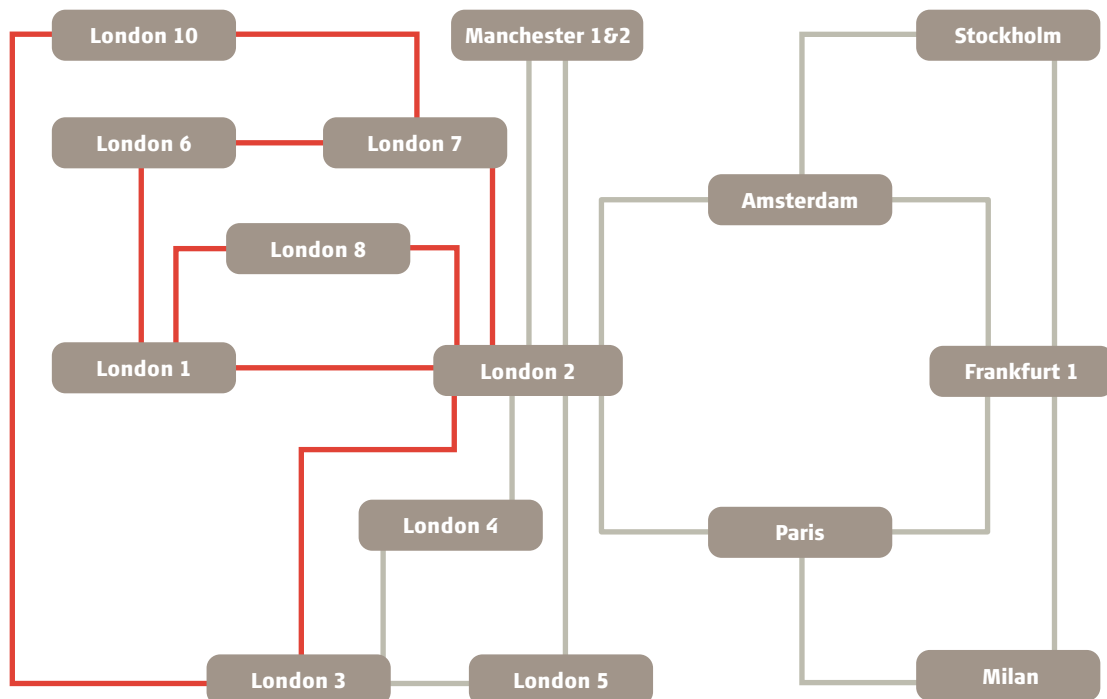
As a native Ethernet service, in the vast majority of cases, you can just plug the circuit directly into your existing equipment and access the network immediately without the need for any additional interfaces.

## Scaleable bandwidth

Private Ethernet Circuits offer easily scalable bandwidth from 1Mbps to 1Gbps or more.

## Pan-European connectivity

Our Ethernet network doesn't just connect all of TelecityGroup's UK data centres; it also seamlessly links together our data centres right across Europe.



**KEY**

— 10G Connection    — <= 1G Connection

# Technical details



## Available Bandwidths

1Mbps to multi-gigabit over 10G interfaces. Bandwidth options vary between locations.

Performance Criteria		
Criteria	Non-Resilient	Resilient
Availability	99.9%	99.99%
Packet Loss max*	0.2%	0.2%
RTT Latency max - Intra City*	6ms	6ms
RTT Latency max - Inter City*	35ms	35ms

\* Note that these performance criteria apply to our MPLS-based services and are based on a rolling 30-day cycle as measured by IPSLA probes through our network.

## Configuration

The circuits are provided through one or more methods depending on location and bandwidth requirements. These are:

- MPLS layer 2 virtual circuit;
- multi-point layer 3 MPLS VPN;
- QinQ LES.

In certain sites we can complement this with dark fibre or WDM wavelengths.

## Support

We have a network operations centre (NOC) reachable through free phone UK number, email or our customer portal with escalation to experienced network services engineers 24x7x365. Our network services engineers are available to discuss your connectivity needs and our professional services team can design custom solutions that integrate with your other services such as firewalls, load balancers and server farms.

We monitor our core systems for performance and faults and all changes are controlled through a strict change control procedure.



## fernhart new media

“TelecityGroup’s personalised service, 24/7 response time and highly reliable remote management service ensures that our servers are managed and operated in the optimum environment.”

**Phil Broadbery**  
Managing Director at Fernhart New Media