

# Exchange Hosting - LONDON

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## Exchange Hosting Service Policy Description

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### 1.0 Introduction

London Stock Exchange plc (the “Exchange”) launched the Exchange Hosting service in 2008, providing co-location and other associated supporting services to customers. The Exchange Hosting service provides cabinet space, power, cooling and market connectivity to customers in the London Primary Data Centre, in addition to other associated services such as time synchronisation feeds. This policy document encompasses co-location services relevant to the markets operated by London Stock Exchange plc, Turquoise Global Holdings Limited and Oslo Bors. Borsa Italiana SpA (part of London Stock Exchange Group plc) also operates a hosting service in its Milan Primary Data Centre and has a separate policy with regard to the provision of co-location services.

This document, published by the Exchange on its website, provides key policy information relating to the operation of the Exchange Hosting service and the provision of co-location and other associated services to customers.

### 1.1 Document Structure

The document includes information related to the following elements of the service:

- space options and the allocation process;
- facility attributes such as power and cooling;
- access to data, market connectivity and message types;
- latency attributes, including the impact of cable lengths and network equipment;
- telecommunication service to external locations;
- technical support;
- pricing policy of each service;
- conditions for accessing the service, including IT and operational arrangements; and
- descriptions of related products and services.



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## 2.0 Exchange Hosting Policy

Consistent with MIFID II, the Exchange Hosting Policy aims to provide all subscribers, who are accessing the same co-location services, with equivalent conditions of service.

### 2.1 Space Options and Allocation Process

Within the Exchange Hosting service the Exchange currently has three areas allocated for customer equipment:

- Area 1 – Trading Participant;
- Area 2 – Trading Participants; and
- Area 3 – Non-Trading Participant (Service Providers and Vendors)

Customers who are adding trading flow to the London Stock Exchange, Turquoise or Oslo Bors markets are located in the Trading Participant area. Customers who do not themselves add trading flow to the local markets, but who provide added value network or market data services, are located in the Non-Trading Participant area.

Where a customer is acting as both a Trading Participant and a Non-Trading Participant (i.e. the customer is using their installed infrastructure as a Network Service Provider or Vendor Access Network Provider for the benefit of multiple customers), the customer will be located in the Non-Trading Participant area.

Where a Non-Trading Participant is managing a single Trading Participant only

within a whole cabinet(s), they will be permitted to take space in the Trading Participant floor.

As the occupation of the spaces increases, the policy for locating customers based on the category of trading may be updated and communicated to customers, in advance of any such change in policy taking effect.

The Exchange endeavours to ensure available space and power meets demand. However, at times of high demand, there may be an extended lead time for space and services to be made available. The Exchange will treat all requests for services on a first come first served basis.

### Cabinet Sizes

The Exchange Hosting service has a number of cabinet sizes available for customers.

- Area 1
  - Size 1 – 600mm x 1070 x 42u
  - Size 2 – 800mm x 1070 x 42u
- Area 2
  - Size 1 – 700mm x 1200 x 48
  - Size 2 – 800mm x 1200 x 48u
- Area 3
  - Size 1 – 800mm x 1070 x 42u

The Exchange on-boarding team liaises with each customer to determine their core requirements. Customers are offered a choice of available locations and cabinets. Where available the choices will include narrower and wider cabinets.

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## 2.2 Facility Services

The facility in which the Exchange Hosting service operates has the following power and cooling attributes:

### Area 1 and 2 - Trading Participants

The Data Centre hall allocated to the Trading Participant area is suitable to facilitate power up to 5kW (balanced within the room). The service provides options of 3kW or 5kW to customers within any available size of cabinet. Customers are able to take multiples and mixtures of powered cabinets (subject to availability). Where data centre power usage balance allows, customers are able to exceed 5kW to an agreed limit if their other cabinet(s) are in close proximity and the average remains at or below 5kW (subject to written approval from the Exchange). Customers are able to install their own compliant Power Distribution Units. Customers taking 3kW power may not be able to upgrade if the power for the room has been allocated.

Cooling is available at an N+1 redundancy level for this area.

### Area 2 Non-Trading Participants

The Data Centre hall allocated to the Non-Trading Participant area is suitable to facilitate power up to 3kW (balanced within the room). The service provides a single option of 3kW to all customers within this area. Customers are able to take multiple cabinets (subject to availability). Where data centre power usage balance allows, customers are able to exceed 3kW if their

other cabinet(s) are in close proximity and the average remains below 3kW to an agreed limit (subject to written approval from the Exchange). Customers are able to install their own compliant PDUs.

Cooling is available at an N+1 redundancy level for this area.

## 2.3 Market Connectivity and Message Types

The Exchange Hosting service in London provides access to the following markets located in the same physical building for all participants:

- London Stock Exchange
- Turquoise
- Oslo Bors
- Curve Global

The service also allows access to the following markets via a dedicated link to the London Stock Exchange Group's Milan Primary Data Centre location.

- Borsa Italiana
- EuroTLX

The full range of order message types are available to customers subscribed to the Exchange Hosting service (as appropriate to their membership entitlement). Further technical information on the connectivity element of the service can be found in the Exchange Hosting Service and Technical Description and within the Technical Library part of the website:

<http://www.londonstockexchange.com/products-and-services/technical-library/home/technical.htm>.

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## 2.4 Service Provision to the Trading and Market Data Services

The Exchange Hosting service is provided to all users under the same conditions of service with regard to space, power, cooling, cable length from client cabinets to trading venues and the real time information services, access to data, market connectivity, technology, technical support and messaging types.

It is important to note that as the Exchange operates a number of highly dynamic markets in which there may be an impact on latency when there are high volumes of incoming orders, the round trip time latency characteristics of messages will vary for all users, whether they are connecting remotely or connecting via the Exchange Hosting service.

## 2.5 Telecommunication Service to External Locations

The Exchange has 3 separate carrier areas within the Primary Data Centre whereby Carriers who have been accredited by the London Stock Exchange are permitted to purchase space for the provision of connectivity services to Hosting customers. The Carrier areas are located apart from the identified client areas within our facility, however fibre distances have been equalised between areas to ensure all parts of our facility provide the same latency experience.

The Exchange requests that customers liaise with the accredited carriers to determine the best solution provider for their needs. Once the customer has ordered their circuit with their chosen provider, the customer must provide the demarcation point to the Exchange. The Exchange will install infrastructure to deliver the circuit from the Carrier's point of presence to the customers co-location cabinet via the standard designated fibre routes within the building.

## 2.6 Technical Support

The Exchange is committed to providing relevant and equal support services to all customers, as required. Two key support groups are available to customers:

- Logical connectivity and market support team; and
- Remote hands team, assisting with physical connectivity and completing hardware intervention support as directed directly by the customer. This service incurs further charges as defined in the price list.

## 2.7 Pricing

The Exchange has a standard price list in which the provision of Exchange Hosting and associated services to Trading Participants and Non-Trading Participants are detailed. Where a customer subscribes to 20 cabinets or more within the London Co-location service, a longer fixed discounted term is

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available. The Exchange has published its price list on the London Stock Exchange Website

[www.londonstockexchange.com/hosting](http://www.londonstockexchange.com/hosting)

## 2.8 IT and Operational Arrangements

The Exchange Hosting service has detailed operational processes for physical access, for deliveries and collections of equipment and for remote hands services, which are applicable to all customers of the service. The process document is available, under appropriate NDA, to new customers looking to take Exchange Hosting services.

Product/Service	High Level Description
Cabinet License (Core Service)	Provision of cabinet space, power, cooling, connectivity to trading and market data systems and support services to accommodate site visits, deliveries and collections.
Communications Management Service	Provision of connectivity services between the Accredited Carrier Demarcation points and the end Customers cabinet positions
Dedicated connectivity to Trading Venue and Market Data Systems	Provision of connectivity to the trading and market data systems

## 2.9 Related Products and Services

The table to the right lists the core services that are available to all customers who subscribe to the Exchange Hosting service.

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## 3.0 Contact and Further Information

If you require any further information on the Exchange Hosting services please contact us on:

Email: [hosting@lseg.com](mailto:hosting@lseg.com)

Telephone +44 (0)20 7797 4114

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Product Manager – Exchange Hosting

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Please find additional information on the Exchange Hosting service in London at the following location:

[www.londonstockexchange.com/hosting](http://www.londonstockexchange.com/hosting)