

EXCHANGE HOSTING

Policy Guide

January 2024

Version 2.1



LSEG

Exchange Hosting Service Policy Description

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 and Turquoise Global Holdings Limited.

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.

DOCUMENT STRUCTURE

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

- space options and the allocation processes;
- facility attributes such as power and cooling;
- access to data, market connectivity and messages 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

Exchange Hosting Policy

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

SPACE OPTIONS AND ALLOCATION PROCESS

Within the Exchange Hosting service, the Exchange currently has two types of area allocated for customer equipment (subject to availability):

- Area 1 – Available to all Participants – Dedicated Rooms; and
- Area 2 – Available to all Participants – Shared Data Hall

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 single size available for customers

- Width 700mm
- Height 48u
- Depth 1200mm

FACILITY SERVICES

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

Area 1 - Dedicated Rooms

The data centre hall is suitable to facilitate power up to 5kW (balanced within the room). The service provides 5kW to customers within each cabinet. Customers are able to take multiples of powered cabinets (subject to availability). Where data centre power usage balance allows, customers are able to exceed 5kW to a pre-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 in cabinet compliant power distribution units. Customers may not be able to upgrade if the power for the room has been fully allocated or if the heat load in the area does not allow without risk of adversely impacting the heat load.

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

Area 2 - Shared Data Hall

The data centre hall is suitable to facilitate power up to 5kW (balanced within the room). The service provides options of 3kW or 5kW to customers within each 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 a pre-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 in cabinet compliant power distribution units. Customers taking 3kW power may not be able to upgrade if the power for the room has been fully allocated or if the heat load in the area does not allow without risk of adversely impacting the heat load.

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

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
- Turquoise Europe

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>.

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.

TELECOMMUNICATION SERVICE TO EXTERNAL LOCATIONS

The Exchange has two separate carrier areas within the Primary Data Centre whereby carriers who have been accredited by the Exchange are permitted to purchase space for the provision of connectivity services to Exchange Hosting service 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.

The Exchange has also produced the London Stock Exchange Communications Access Policy and Rooftop Use Policy document which is available on request.

TECHNICAL SUPPORT

The Exchange is committed to providing the 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.

PRICING

The Exchange has a standard price list in which the provision of the Exchange Hosting service and associated services to Trading Participants and Non-Trading Participants are detailed. The Exchange has published its price list on the Exchange's website here:

www.londonstockexchange.com/hosting

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.

RELATED PRODUCTS AND SERVICES

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

Product/Service	High Level Description
Cabinet Licence (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

Contact and Further Information

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

Email: hosting@lseg.com

Telephone +44 (0)20 7797 4114

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

www.londonstockexchange.com/hosting