



London
Stock Exchange

London Stock Exchange

MIT1001 – Connectivity Guide

Issue 3.5

20 January 2021



London
Stock Exchange Group

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1.0 Introduction

The London Stock Exchange provides a range of services on its Millennium Exchange Live Service to facilitate its members trading needs.

1.1 Purpose

The purpose of this document is to provide participants with information on how to connect to the London Stock Exchange MillenniumIT platform for both the Customer Development Service (CDS) and the Production service.

1.2 Readership

This document is a supporting document to the interface technical specifications. When read in conjunction with the other technical specifications, these documents provide all of the details London Stock Exchange participants require to connect to the MillenniumIT trading platform.

This document is particularly relevant to project and technical staff within member firms and companies that provide the London Stock Exchange related services to member and non-member firms.

1.3 Document Series

This document forms part of a series of technical documentation available to customers for full trading and information services available from the London Stock Exchange. For reference, the full range of documents available at the following location:

<http://www.londonstockexchange.com/products-and-services/millennium-exchange/technicalinformation/technicalinformation.htm>

When connecting to the London Stock Exchange MillenniumIT trading platform, customers should be aware of the connectivity policy found via the below link:

<http://www.londonstockexchange.com/products-and-services/technical-library/technical-guidance-notes/connectivitypolicyv2.pdf>

1.4 Document History

This document has been through the following iterations:

Issue	Date	Description
1	16/04/2013	Document creation
1.1	20/05/2013	Sponsored Access is now available across all Native Trading Gateways in production and CDS. RIL upload is only available via SFTP, FTP RIL IP's have been removed.
1.2	05/08/2013	Correction to CDS GTP IP's. Removal of FIX/FAST on Legacy CDS CDS RNS added to Legacy CDS
2.0	08/12/2013	Removal of Legacy CDS target IP's as the service is no longer available following successful deployment of Release 8.0
2.1	12/12/2013	Correction to GTP FTSE Replay IP
2.2	27/10/2014	Amended to reflect rebranding ITCH to MITCH
2.3	06/01/2015	Correction to GTP secondary source IP address
2.4	20/07/2015	Addition of GTP Full Depth Incremental CDS multicast and unicast IP's
2.5	10/05/2016	Clarified Production MITCH services behaviour Updated Production Primary, Production Secondary and CDS Reference Data IP addresses for the new FTP reference data service
2.6	02/01/2017	Added references to GTP004
2.7	23/08/2017	Removed all instances of Channel F from the European MBP Channel.
2.8	18/05/2018	Legacy CDS details added

2.9	15/05/2019	Change to the Multicast Source IP Address for the MITCH Primary Feed (Channel A to G) and RNS Secondary Feed on CDS
3.0	02/12/2019	Removed MITCH connectivity information due to MITCH decommission
3.1	05/06/2020	Added additional details in section 2.1
3.2	09/07/2020	Introduction of a new MFT (Managed File Transfer) SFTP service to download the LSE XLON reference data files Please refer to section 2.3.2 & 3.2.2
3.3	21/08/2020	Section 2.3.2 & 3.3.2 <ul style="list-style-type: none"> - Changes domain name from data.lseg.com to data.mft.lseg.com - Added target IP addresses Section 3.3.2 <ul style="list-style-type: none"> - SAP access for CDS is now available
3.4	09/11/2020	Removed reference to MFT (Managed File Transfer) as current connectivity to the SFTP will remain.
3.5	20/01/2021	New Sponsored Access Restricted Instrument List (RIL) SFTP Process introduced via MFT. CMC/Hosting/Extranex is no longer supported for Sponsored Access RIL SFTP, internet only. Section 2.3.1 & 3.3.1 – Removed connectivity details; <ul style="list-style-type: none"> - Production/CDS SFTP Sponsored Access RIL (Hosting/Extranex/CMC) - Production/CDS SFTP Sponsored Access RIL (Internet) Section 2.4 & 3.4 - Introduction of new Production/CDS Sponsored Access RIL SFTP connectivity.

Within this document, where amendments have been made to the previous issue, these changes will be identified by highlighting the changes in **Red**.

1.5 Contacts

Please contact your Technical Account Manager or the Technical Account Management team if you have any questions about the services outlined in this document

Technical Account Management Team:

- Telephone: +44 (0)20 7797 3939

- Email: londontam@lseg.com

2.0 Production Environment

2.1 Production Trading Services

The table below provides the exchange's customer-facing IP addressing for FIX Trading, Native Trading Realtime and Recovery services (all Native gateways are enabled for Sponsored Access), Drop Copy and Post Trade gateways. The backup gateways will only be available if the primary gateways are unavailable.

Users are expected to wait 500ms after sending the login requests to the gateways before they start trading activity.

Service	Exchange IP Address	TCP Port
Fix Trading GW 01 - Channel 1 Primary	194.169.8.1	58201
Fix Trading GW 01 - Channel 1 Backup	194.169.8.2	58201
Fix Trading GW 01 - Channel 2 Primary	194.169.8.1	58202
Fix Trading GW 01 - Channel 2 Backup	194.169.8.2	58202
Fix Trading GW 02 - Channel 1 Primary	194.169.8.3	58221
Fix Trading GW 02 - Channel 1 Backup	194.169.8.4	58221
Fix Trading GW 02 - Channel 2 Primary	194.169.8.3	58222
Fix Trading GW 02 - Channel 2 Backup	194.169.8.4	58222
Fix Trading GW 03 - Channel 1 Primary	194.169.8.5	58241
Fix Trading GW 03 - Channel 1 Backup	194.169.8.6	58241
Fix Trading GW 03 - Channel 2 Primary	194.169.8.5	58242
Fix Trading GW 03 - Channel 2 Backup	194.169.8.6	58242
Native Trading 01 Realtime Channel	194.169.8.48	58601
Native Trading 01 Recovery Channel	194.169.8.48	58801
Native Trading 02 Realtime Channel	194.169.8.49	58602
Native Trading 02 Recovery Channel	194.169.8.49	58802
Native Trading 03 Realtime Channel	194.169.8.50	58603
Native Trading 03 Recovery Channel	194.169.8.50	58803
Native Trading 04 Realtime Channel	194.169.8.51	58604
Native Trading 04 Recovery Channel	194.169.8.51	58804
Native Trading 05 Realtime Channel	194.169.8.52	58605
Native Trading 05 Recovery Channel	194.169.8.52	58805
Native Trading 06 Realtime Channel	194.169.8.53	58606
Native Trading 06 Recovery Channel	194.169.8.53	58806
Native Trading 07 Realtime Channel	194.169.8.54	58607
Native Trading 07 Recovery Channel	194.169.8.54	58807
Native Trading 08 Realtime Channel	194.169.8.55	58608

Native Trading 08 Recovery Channel	194.169.8.55	58808
Native Trading 09 Realtime Channel	194.169.8.56	58609
Native Trading 09 Recovery Channel	194.169.8.56	58809
Native Trading 10 Realtime Channel	194.169.8.57	58610
Native Trading 10 Recovery Channel	194.169.8.57	58810
Native Trading 11 Realtime Channel	194.169.8.58	58611
Native Trading 11 Recovery Channel	194.169.8.58	58811
Native Trading 12 Realtime Channel	194.169.8.62	58701
Native Trading 12 Recovery Channel	194.169.8.62	58901
Native Trading 13 Realtime Channel	194.169.8.63	58702
Native Trading 13 Recovery Channel	194.169.8.63	58902
Native Trading 14 Realtime Channel	194.169.8.62	58703
Native Trading 14 Recovery Channel	194.169.8.62	58903
Native Trading 15 Realtime Channel	194.169.8.63	58704
Native Trading 15 Recovery Channel	194.169.8.63	58904
Post Trade GW 01 - Channel 1 Primary	194.169.8.24	58401
Post Trade GW 01 - Channel 1 Backup	194.169.8.25	58401
Post Trade GW 01 - Channel 2 Primary	194.169.8.24	58402
Post Trade GW 01 - Channel 2 Backup	194.169.8.25	58402
Post Trade GW 02 - Channel 1 Primary	194.169.8.26	58421
Post Trade GW 02 - Channel 1 Backup	194.169.8.27	58421
Post Trade GW 02 - Channel 2 Primary	194.169.8.26	58422
Post Trade GW 02 - Channel 2 Backup	194.169.8.27	58422
Drop Copy GW 01 - Channel 1 Primary	194.169.8.32	58501
Drop Copy GW 01 - Channel 1 Backup	194.169.8.33	58501
Drop Copy GW 01 - Channel 2 Primary	194.169.8.32	58502
Drop Copy GW 01 - Channel 2 Backup	194.169.8.33	58502
Drop Copy GW 02 - Channel 1 Primary	194.169.8.34	58521
Drop Copy GW 02 - Channel 1 Backup	194.169.8.35	58521
Drop Copy GW 02 - Channel 2 Primary	194.169.8.34	58522
Drop Copy GW 02 - Channel 2 Backup	194.169.8.35	58522

2.2 Production GTP Market Data

GTP connectivity details are available in the **GTP004 Parameters Guide** that you can download from <https://www.lseg.com/areas-expertise/technology/group-technology/group-ticker-plant>.

2.3 Production Reference Data

2.3.1. FTP/SFTP service

Production Primary Reference Data

Service	Exchange IP Address	TCP Port
FTP Reference Data Service (Hosting/Extranex/CMC)	194.169.8.42	21
SFTP Reference Data Service (Hosting/Extranex/CMC)	194.169.8.42	58101

Production Secondary Reference Data

Service	Exchange IP Address	TCP Port
FTP Reference Data Service (Hosting/Extranex/CMC)	194.169.8.43	21
SFTP Reference Data Service (Hosting/Extranex/CMC)	194.169.8.43	58101

2.4 Production Sponsored Access

Production Sponsored Access Portal URL

<https://sponsored-access.londonstockexchange.com/>

Sponsored Access Restricted Instrument List SFTP

Sponsoring firms who wish to upload Restricted Instruments via SFTP will require an MFT RIL SFTP account. Sponsoring firms should contact the Technical Account Management Team (londontam@lseg.com) to be setup. Information required;

- Member ID
- Source (Internet) IP address(es)
- Public Key (Optional)
- A single admin contact email and telephone number.

Once the SFTP account has been created, the admin contact will be emailed the login credentials. Customers will need to change their default passwords via <https://data.lseg.com>

SFTP/HTTPS Access;

- data.lseg.com, port 22 (SFTP)
- <https://data.lseg.com>, port 443 (HTTPS)

3.0 CDS Environment

3.1 CDS Trading Services

The table below provides the exchange's customer-facing IP addressing for FIX Trading, Native Trading Realtime and Recovery services (all Native gateways are enabled for Sponsored Access), Drop Copy and Post Trade gateways. The backup gateways will only be available if the primary gateways are unavailable.

Service	Exchange IP Address	TCP Port
FIX Trading Gateway 1 - Primary	194.169.8.131	51160
FIX Trading Gateway 1 - Backup	194.169.8.132	51160
FIX Trading Gateway 2 - Primary	194.169.8.132	51161
FIX Trading Gateway 2 Backup	194.169.8.131	51161
Native Trading Realtime Channel 01	194.169.8.135	51190
Native Trading Recovery Channel 01	194.169.8.135	51195
Native Trading Realtime Channel 02	194.169.8.136	51190
Native Trading Recovery Channel 02	194.169.8.136	51195
Native Trading Realtime Channel 03	194.169.8.137	51190
Native Trading Recovery Channel 03	194.169.8.137	51195
Native Trading Realtime Channel 04	194.169.8.138	51190
Native Trading Recovery Channel 04	194.169.8.138	51195
Native Trading Realtime Channel 05	194.169.8.150	51191
Native Trading Recovery Channel 05	194.169.8.150	51196
Native Trading Realtime Channel 06	194.169.8.151	51191
Native Trading Recovery Channel 06	194.169.8.151	51196
Native Trading Realtime Channel 07	194.169.8.150	51192
Native Trading Recovery Channel 07	194.169.8.150	51197
Native Trading Realtime Channel 08	194.169.8.151	51192
Native Trading Recovery Channel 08	194.169.8.151	51197
Post Trade Gateway - Primary	194.169.8.139	51170
Post Trade Gateway - Backup	194.169.8.140	51170
Drop Copy Gateway - Primary	194.169.8.143	51180
Drop Copy Gateway -Backup	194.169.8.144	51180

3.2 CDS GTP services

GTP connectivity details are available in the **GTP004 Parameters Guide** that you can download from <https://www.lseg.com/areas-expertise/technology/group-technology/group-ticker-plant>.

3.3 CDS Reference Data

3.3.1 FTP/SFTP service

Service	IP Address	Port
FTP	194.169.8.157	21
SFTP	194.169.8.157	51101

3.4 CDS Sponsored Access

CDS Sponsored Access Portal URL

<https://cds-sponsored-access.londonstockexchange.com/>

Sponsored Access Restricted Instrument List SFTP

Sponsoring firms who wish to upload Restricted Instruments via SFTP will require an MFT RIL SFTP account. Sponsoring firms should contact the Technical Account Management Team (londontam@lseg.com) to be setup. Information required;

- Member ID
- Source (Internet) IP address(es)
- Public Key (Optional)
- A single admin contact email and telephone number.

Once the SFTP account has been created, the admin contact will be emailed the login credentials. Customers will need to change their initial/default password via <https://data.lseg.com>

SFTP/HTTPS Access;

- data.lseg.com, port 22 (SFTP)
- <https://data.lseg.com>, port 443 (HTTPS)

4.0 Legacy CDS Environment

In order to facilitate the testing of software applications and customer algorithms, a new test environment is now available in parallel to the existing one. The new Legacy CDS environment will be continuously aligned with production in terms of Software Version of Trading and Market Data Systems and Reference Data

4.1 Legacy CDS Trading Services

The table below provides the exchange's customer-facing IP addressing for FIX Trading, Native Trading Realtime and Recovery services (all Native gateways are enabled for Sponsored Access), Drop Copy and Post Trade gateways. The backup gateways will only be available if the primary gateways are unavailable.

Service	Exchange IP Address	TCP Port
FIX Trading Gateway 1	94.46.104.9	51160
FIX Trading Gateway 2	94.46.104.10	51160
Native Trading Realtime 1	94.46.104.1	51190
Native Trading Recovery 1	94.46.104.1	51195
Native Trading Realtime 2	94.46.104.2	51190
Native Trading Recovery 2	94.46.104.2	51195
Post Trade Gateway 1	94.46.104.5	51170
Post Trade Gateway 2	94.46.104.6	51170
Drop Copy Gateway 1	94.46.104.7	51180
Drop Copy Gateway 2	94.46.104.8	51180

4.2. Legacy CDS GTP services

GTP connectivity details are available in the **GTP004 Parameters Guide** that you can download from <https://www.lseg.com/areas-expertise/technology/group-technology/group-ticker-plant>.

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