

TESTING GUIDE

Issue 1.5

February 2024



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1 Documentation

1.1 This Guide

The purpose of this document is to provide an overview of the testing services available to customers, provisioned as part of the TRADEcho project. This includes an overview of the Customer Development Service (CDS) and Legacy Customer Development Service (LCDS) environments.

It will be updated and reissued when appropriate to do so.

1.2 Readership

This document is particularly relevant to technical and service introduction teams within member firms and other market participants who are interested in submitting Off Book Trades, SI Quotes, and process market data disseminated by TRADEcho.

When read in conjunction with other TRADEcho documents it is intended to provide all required information to fully test customer systems ahead of Production service access.

1.3 Document Series

This guide forms part of the documentation library supporting those clients interacting with TRADEcho. For information, the full series of currently available documentation is outlined below:

Additional Documents

- TRADEcho Connectivity Guide
- TRADEcho Testing Guide (this document)
- TRADEcho Certification Guide
- TRADEcho Certification Report

The full library of TRADEcho documentation can be found at:

[Technical library Trade - Resources | London Stock Exchange](#)

Market data will be disseminated via the London Stock Exchange Group Ticker Plant (GTP) market data service and the relevant documentation for TRADEcho is available below:

- GTP001 - Product Guide
- GTP002 - Technical Guide
- GTP003 - Statistics Guide
- GTP004 - Parameters Guide

- GTP005 - Testing Guide

GTP documentation is available at

[Group Ticker Plant | LSEG](#)

1.4 Document History

This document has been through the following iterations:

Issue	Date	Description
1.0		First issue of this document published via the London Stock Exchange's website and distributed to customers.
1..1	Oct 2017	Second issue of this document. TRADEcho CDS schedule updated to reflect extended testing hours.
1.2	Mar 2021	TRADEcho CDS schedule updated to reflect extended testing hours.
1.3	May 2021	Addition of Legacy CDS (LCDS) daily schedule
1.4	Feb 2022	Addition of Live Connectivity Testing Services details, section 5
1.5	Feb 2024	Updated to reflect the new customer conformance tool and process. Introduction of OKTA to access the new customer conformance testing portal.

1.5 Enquiries

Please contact your Technical Account Manager if you have any questions about the Testing services outlined in this document. If you are unsure who your Technical Account Manager is please use the details below:

- Telephone: +44 (0)20 7797 3939
- Email: londontam@lseg.com

2 TRADEcho

TRADEcho is the partnership between Boat Services Ltd and the London Stock Exchange Group to deliver a MiFID II compliant multi-asset trade reporting service, facilitating efficient and straightforward trade reporting in an increasingly complex regulatory landscape.

TRADEcho will under MiFID II offer:

- Pre-trade SI quoting service, and publishing of quotes via London Stock Exchange Group Ticker Plant (GTP) market data service, market data vendors and the service's portal
- Post-trade trade reporting for OTC, OTF, SI, MTF, on-exchange and off-book flows
- A cleared model; clients will be able to flag off-book trade reports for onward routing to CCP, to be able to net these trades with order book trades to achieve settlement and margin savings
- Support for all asset classes covered by MiFID II, including equities, depositary receipts, ETFs, equity derivatives, commodities, fixed income and other financial instruments
- Support for the additional data requirements and definitions introduced under MiFID II
- A web-based portal providing access to the services

Further information on TRADEcho Service can be found at:

www.tradecho.com

3 Service Overview

The Customer Development Service (CDS) is TRADEcho's testing environment. It provides clients an opportunity to test internal systems and the ability for those systems to interact with the service prior to accessing the Production environment. The CDS environment is a fully functional service, the behaviour of which mirrors that of the Production system. It is not, however, a performant system and clients should not expect to performance test applications on the CDS service.

3.1 Reference Data

TRADEcho does maintain a distinct set of reference data; however, the data is provided in the same Instrument file as per the London Stock Exchange Millennium CDS environment.

An FTP & SFTP flat-file based Reference Data download service is available as part of Millennium Exchange. All customers are also required to test against this service prior to go-live. Further information is available in **MIT401 - Guide to Reference Data Services** which can be found [here](#).

[Technical library Trade - Resources | London Stock Exchange](#)

At the Start of Day GTP will disseminate an Instrument Directory message for each instrument available in TRADEcho.

3.2 Daily Lifecycle

TRADEcho Customer Development Service (CDS)

Event	Time (UK)	Description
SOD	03:00	
PreOpen	03:05	
Open	03:10	<ul style="list-style-type: none"> - Users can logon to the Portal and FIX gateway - The system is ready for SI Quoting and Trade Reporting
PreClose	21:15	<ul style="list-style-type: none"> - The system is available for SI Quoting - The system is not available for Trade Reporting - Existing Trade Reports can be cancelled or pre-released - All users can access the system
EOD	22:15	<ul style="list-style-type: none"> - All active quotes are cancelled - A logout message is sent out to all FIX users - Logons are no longer permitted

TRADEcho Legacy Customer Development Service (LCDS)

Event	Time (UK)	Description
SOD	05:30	
PreOpen	05:45	
Open	06:00	<ul style="list-style-type: none"> - Users can logon to the Portal and FIX gateway - The system is ready for SI Quoting and Trade Reporting
PreClose	21:15	<ul style="list-style-type: none"> - The system is available for SI Quoting - The system is not available for Trade Reporting - Existing Trade Reports can be cancelled or pre-released - All users can access the system
EOD	22:15	<ul style="list-style-type: none"> - All active quotes are cancelled - A logout message is sent out to all FIX users - Logons are no longer permitted

At the start of each of the above sessions a System Event message is disseminated by GTP. Please note that GTP start of day is at 6:00am and end of day is at 20:00

Please note connections (both through FIX and WebPortal) are allowed only during Open and PreClose.

3.3 Maintenance Days

On some occasions, TRADEcho may be forced to close the CDS environment for an advertised period - this closure is usually necessary to ensure code sets can be promoted to the environment cleanly and without customer impact or for hardware upgrades to take place. When a closure is required, the maximum possible notice will always be provided to clients. Maintenance days will be advertised to clients through the London Stock Exchange Service Announcements.

To register an email address to the Service Announcement distribution list, please follow the instruction available at:

[Service announcements | London Stock Exchange](#)

3.4 Release Note

TRADEcho CDS environment should be accessed following familiarisation with the library of documentation available from the website. In addition to these documents, release notes will be made available to clients when appropriate.

4 Model Based Testing

The CDS environment has been enhanced to model specific scenarios on a more frequent basis than customers will encounter on the Live Service, such as service disruptions. Customers can use these scenarios to assist with their testing and development. This section describes the modifications.

4.1 Market Data Failover and Recovery Testing

Please refer to the **GTP005 Testing Services Guide** available for download from:

[Group Ticker Plant | LSEG](#)

4.2 Trading Gateway Failover and Recovery

In order to support customers with their disaster recovery testing, every Friday, at around 15:00, the primary FIX Gateway will be brought down.

Customers connected to a Primary Gateway during that time can detect the disconnection and re-connect to the designated secondary gateway. Customers should comply with the Customer Connectivity Policy. Details of the policy are available at:

[Technical library Trade - Resources | London Stock Exchange](#)

Customers will remain connected to the Secondary Gateway for the remainder of the day.

5 Live Connectivity Testing Services

5.1 TRADEcho Production TCP Responder

The TCP Responder is activated from 19:45-23.00 from Monday to Thursday following the Production service shutdown and will use the existing Production IP addresses. The TCP Responder will also be activated every weekend from Saturday 22:00 to Sunday 22:00

The TCP Responder responds to customer TCP messages such as Telnet to all TRADEcho Production Primary and Backup Gateways.

The TRADEcho Production IP addresses referenced above can be found in the TRADEcho Connectivity guide on the website at the link below:

[Technical library Trade - Resources | London Stock Exchange](#)

6 Application Certification

Before connecting to the Live Service, customers are required to certify that their software applications fully conform to the TRADEcho Technical Specifications.

Customers will need to be set-up on OKTA, to manage their conformance test on the new front-end GUI that can be accessed - <https://conformance.lseg.com/login>.

To be set-up on OKTA, please provide the following information to the Conformance Testing team at conformancetest@lseg.com.

- Name and email address of the individual(s) performing the certification tests.
- Name of the company performing the certification
- Which interface(s) is requested for certification, APA, SRR, SI Quotes

Once the user certifying has been set-up, customers should expect to receive emails from OKTA to access the conformance testing tool [noreply@identity.lseg.com].

To perform conformance testing customers will need to target new destination IP address(es)/Ports.

Note: The new Conformance testing IP address(es)/Ports should not be used for software development, instead please refer to the CDS IP address(es)/Ports on our website ([Technical library Equities trading resources | London Stock Exchange](#)).

7 TRADEcho Portal

In addition to the FIX gateway, TRADEcho provides a web-based Portal

Reference data and all information submitted via the FIX gateway is also available in the Portal.

At a high level, the following functionalities are available:

- User Management
 - o Adding users for a member
 - o Editing user information
 - o Enabling/Disabling users
 - o Changing passwords for users
- Trade Reporting
 - o Entering/Amending/Cancelling trade reports
 - o Releasing deferred trade reports
- SI Quoting
 - o Entering/Amending/Cancelling quotes

For additional information, please refer to the Help section in the Portal.