



LONDON  
STOCK  
EXCHANGE

TURQUOISE

# MEMBER PORTAL

Technical Configuration User Guide



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Related Technical Specifications for the Millennium Exchange trading system are available online:

[London Stock Exchange Technical Library](#)

[Turquoise Document Library](#)

# Introduction

The Member Portal is an online communications tool for use by member firms of LSEG companies.

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## The Member Portal is used by member firms to:

1. Manage their company data and contact details
2. Manage their trading profile and related trading identifiers
3. Configure technical access to trading systems

## The Member Portal is used by member firms of the following LSEG companies:

- London Stock Exchange
- Turquoise
- Turquoise Europe

This User Guide focuses on the London Stock Exchange and Turquoise Technical Requirements & Data areas of the Member Portal; for support with other sections of the Member Portal for London Stock Exchange and Turquoise, please refer to the Member Portal Quick Start User Guide and LSE Member Portal Cash Markets User Guide.

In order to access the Technical Requirements & Data modules within the Member Portal, users must have Read or Read & Write permissions for these modules. Users who cannot access or request amendments to the required data should in the first instance contact their company Super User(s) to request necessary permissions.

# Comp ID Management

## Interface

When expanded, the Comp ID module displays a list of connectivity enabled Member IDs (highlighted red in Figure 1). When a Member ID is selected, the main body of the page displays the current configuration of Comp IDs residing under that Member ID (blue). Search options (green) are available to filter the displayed Comp ID configuration. Data can be exported into Excel using the **Download Report** button.

There are three action buttons at the top of the main body of the page: **Add Comp ID**, **Clone Comp ID** and **Edit Selected Comp IDs**.

The screenshot shows the 'Comp Id Management' interface. The page header includes 'Member Portal' and 'London Stock Exchange Group'. The navigation menu has 'Membership Management' selected. The main content area is titled 'Comp Id Management' and includes a search form with fields for Username, Protocol, Session ID, Software, and Status. Below the search form is a table of current compID configurations. The table has columns for Username, Protocol, Session ID, Software, Status, TPS, and Sponsor Access. Two rows are visible, both for Member ID 1110\_test. The first row has Session ID TEST001N and the second has TEST002N. At the top right of the main content area, there are three buttons: 'Add new CompId', 'Clone CompId', and 'Edit Selected CompIds'. At the bottom right, there is a 'Download Report' button.

Username	Protocol	Session ID	Software	Status	TPS	Sponsor Access
1110_test	Native	TEST001N	VAN_TEST_QA_DISPLAY	Active	100	false
1110_test	Native	TEST002N	VAN_TEST_QA_DISPLAY	Active	100	false

Figure 2.1 View of the Comp ID Management interface explained

# Comp ID Management

## Create New Comp ID

### Native Comp ID

For London Stock Exchange only, Native IDs must first be requested in the Trader Group ID screen in the Cash Market Access module. When a Native ID is requested, a Native Comp ID shell is automatically created in the Comp ID management 'pending area' for the customer to populate the technical configuration.

**Note: LSE Native IDs can only be deleted in the Trader Group ID screen.**

To complete the request, select the desired Native ID and click on the **Edit** button. Complete the fields and click **Send** (shown in Figure 2.4 on page 05).

The screenshot shows the 'Comp ID Management' interface. On the left, there are navigation tabs: 'Cash Market Access' (selected), 'Member IDs', 'Trader Group IDs', and 'Systems & Controls Questionnaire'. Below these are 'MIT Configuration' and 'Comp Id Management' (selected). The main area is titled 'Pending compID requests:' and contains a table with the following data:

Username	Protocol	Session ID	Software	Status	TPS	Sponsor Access
<input type="checkbox"/>	Native	TEST001N		Active		false

Below the table, it says 'Request created on 23/10/2017'. To the right of the table is a form for 'Technical requirements and data' with fields for Username, Protocol, Session ID, Software, and Status, each with a dropdown menu. There is a 'Search' button. Below the form, it says 'Current compID configuration:'.

**Figure 2.2** Native Comp ID shell created in pending area for customer to complete technical configuration

The screenshot shows the 'CompID Detail' form. It has a title bar with 'CompID Detail' and a close button. The form contains the following fields:

- Request created on: 23/10/2017
- Status: Active (dropdown menu)
- Save button
- Member ID: 12345678
- Sponsor Access: Yes (radio button), No (radio button)
- Edit button (highlighted with a red box)

**Figure 2.3** Select Native ID and click Edit

# Comp ID Management

Complete the fields and click **Send**.



### CompId Detail

Member ID  
12345678

Sponsor Access  
 Yes  No

Username (\*)  
1110\_test

Protocol (\*)  
Native

Software (\*)  
VAN\_TEST\_QA\_DISPLAY

Session ID (\*)  
TEST001N

Status (\*)  
Active

TPS (\*)  
1000

Disconnect Delay (milliseconds)  
0

Self Execution Prevention  
CRO

Cancel or Disconnect  
 Yes  No

Cancel on Logout  
 Yes  No

RFQ

**Send**

Figure 2.4 Complete Native ID fields

# Comp ID Management

When completing the form for the Native ID technical configuration, the software application needs to be specified. In the software field, you will see a drop-down list including certified proprietary software related to the member firm, ISV software and VAN software providers for the Native Gateway. If your software is not displayed but has been certified, please contact [Market Access](#).

When the request has been submitted, a clock icon will be displayed against the draft Native ID indicating that it is pending review.

Once accepted by LSE, the icon will change to a tick and go-live date is given to the Native Comp ID.

**LSE Trading Services - Cash**

## Comp Id Management

Member firms can request new and manage existing compID's in this area for Millennium Trading System. In the MIT Configuration navigation pane you will see a list of your member ID's, select a member ID to see the technical configuration associated to it. You can find the technical specifications for the Millennium Trading System [here](#).

**Add new CompId** **Clone CompId** **Edit Selected CompIds**

Pending compID requests:

Username	Protocol	Session ID	Software	Status	TPS	Sponsor Access
<input type="checkbox"/> 1110_test	Native	TEST001N	VAN_TEST_QA_DISPLAY	Active	100	false

Request created on 23/10/2017 By Will White

Technical requirements and data

MIT Configuration

Comp Id Management

HGYTHGYT

12345678

Self Execution Prevention

Username:  Protocol:  Session ID:

Software:  Status:  **Search**

**Figure 2.5** Member ID tick goes orange and the clock icon indicates pending LSE action to accept or reject the request

Pending compID requests:

Username	Protocol	Session ID	Software	Status	TPS	Sponsor Access
<input type="checkbox"/> 1110_test	Native	TEST001N	VAN_TEST_QA_DISPLAY	Active	100	false

Request created on 23/10/2017 **By Will White Go Live Date 24/10/2017**

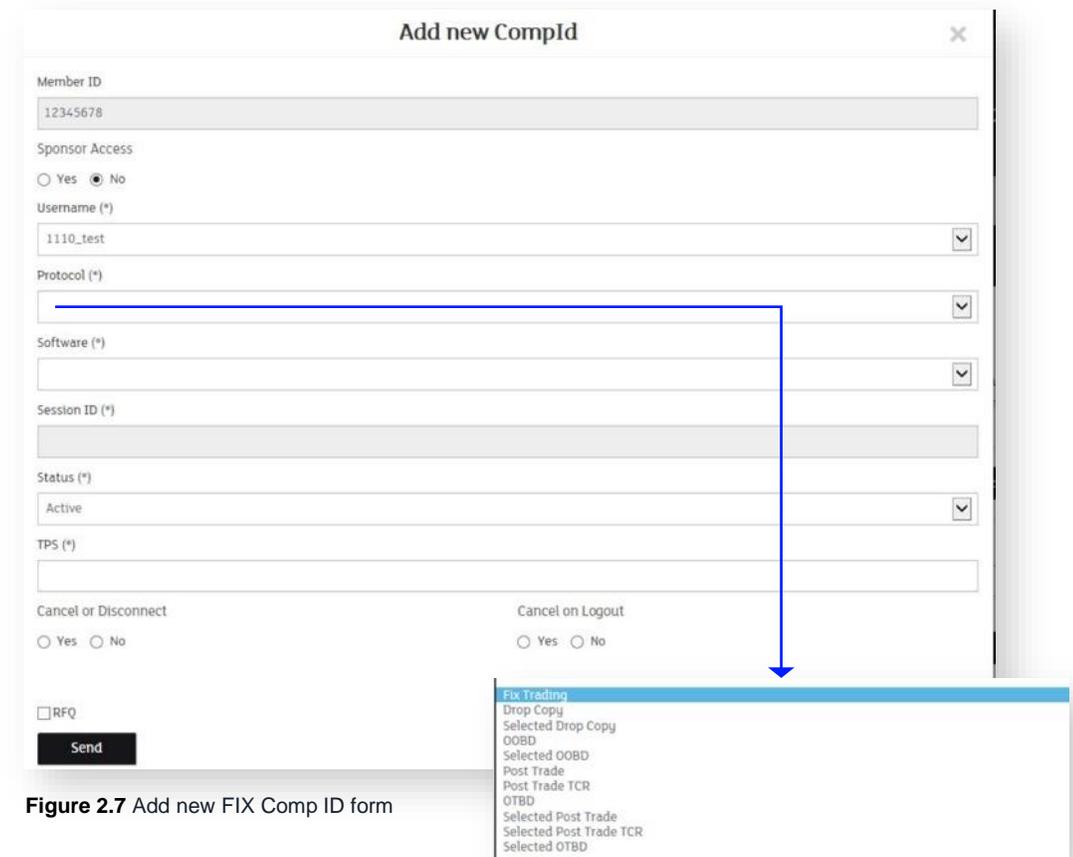
**Figure 2.6** Accepted request and go-live date given by LSE

# Comp ID Management

## FIX Comp ID

To request a new FIX Comp ID, first click on the **Add new Comp ID** button at the top of the page; the session ID is automatically generated based on the LSE/Turquoise naming convention.

For post trade and drop copy sessions, the TPS should be set to 20 and Cancel on Disconnect set to 'No'.



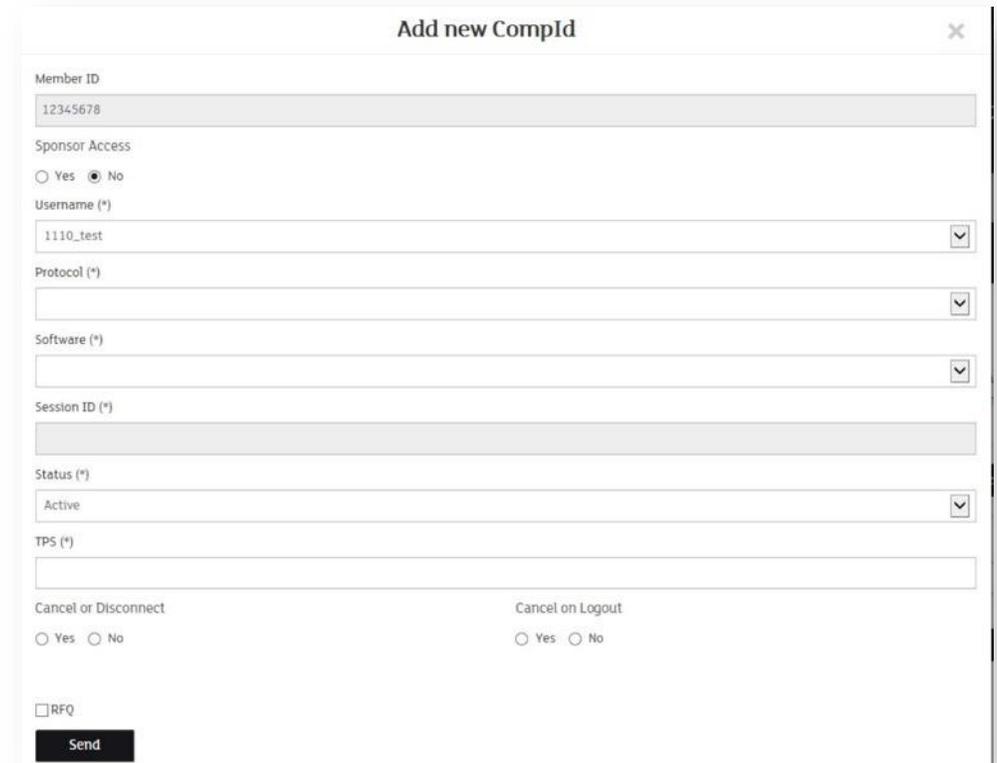
The screenshot shows the 'Add new CompId' form with the following fields and options:

- Member ID: 12345678
- Sponsor Access:  Yes  No
- Username (\*): 1110\_test
- Protocol (\*): [Dropdown menu open with options: Fix Trading, Drop Copy, Selected Drop Copy, OOB, Selected OOB, Post Trade, Post Trade TCR, OTBD, Selected Post Trade, Selected Post Trade TCR, Selected OTBD]
- Software (\*): [Empty field]
- Session ID (\*): [Empty field]
- Status (\*): Active
- TPS (\*): [Empty field]
- Cancel or Disconnect:  Yes  No
- Cancel on Logout:  Yes  No
- RFQ
- Send button

Figure 2.7 Add new FIX Comp ID form

# Comp ID Management

To complete the request, complete the Comp ID fields and click on **Send**. When the request has been submitted, a clock icon will be displayed against the draft Comp ID indicating that it is pending review.



**Add new CompId**

Member ID  
12345678

Sponsor Access  
 Yes  No

Username (\*)  
1110\_test

Protocol (\*)

Software (\*)

Session ID (\*)

Status (\*)  
Active

TPS (\*)

Cancel or Disconnect  
 Yes  No

Cancel on Logout  
 Yes  No

RFQ

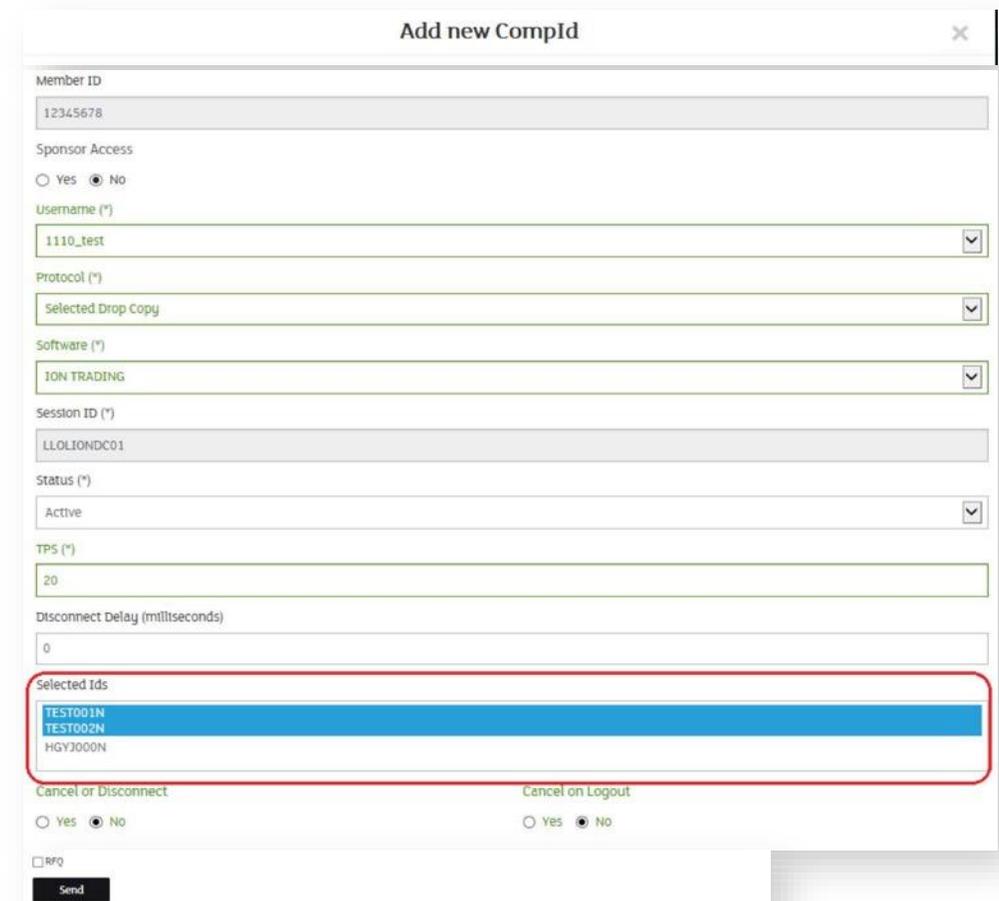
**Send**

**Figure 2.8** FIX Comp ID request in the pending area

# Comp ID Management

To associate the FIX Comp ID with multiple trading sessions, use Ctrl + [Selection] or Shift + [Selection] to select multiple values in the Selected ID field.

When completing the form for the FIX Comp ID technical configuration, the software application needs to be specified. In the software field, you will see a drop-down list including certified proprietary software related to the member firm, ISV software and VAN software providers for the Native Gateway. If your software is not displayed but has been certified, please contact [Market Access](#).



The screenshot shows a web form titled "Add new CompId" with the following fields and options:

- Member ID: 12345678
- Sponsor Access:  Yes  No
- Username (\*): 1110\_test
- Protocol (\*): Selected Drop Copy
- Software (\*): ION TRADING
- Session ID (\*): LLOLIONDC01
- Status (\*): Active
- TPS (\*): 20
- Disconnect Delay (milliseconds): 0
- Selected Ids: TEST001N, TEST002N, HGY3000N (highlighted in blue)
- Cancel or Disconnect:  Yes  No
- Cancel on Logout:  Yes  No
- RFO
- Send button

**Figure 2.9** Selected Drop Copy request with multiple trading sessions selected in selected ID field

# Comp ID Management

## Transactions Per Second (TPS)

When including Transactions Per Second (TPS) values on Comp ID requests, member firms should be aware of the pricing policy for each trading venue in relation to TPS:

[LSE Trading Services Price List](#)

[Turquoise Price List](#)

Each member firm has a Transaction Per Second (TPS) allocation to be used across their Native and FIX Trading IDs. If a new Comp ID request exceeds the allocation a rejection is triggered.

To continue with the Comp ID request, you will need to re-balance the TPS allocation across the current configuration to free up TPS allocation for the new Comp ID request.

## Clone button

Comp IDs can be 'cloned' to request an exact copy of an existing Comp ID. To clone an existing Comp ID, select the check box of the Comp ID to be cloned and click on the Clone button. Only one Comp ID can be requested when cloning a live Comp ID. It is not possible to clone Native IDs or draft FIX Comp IDs.

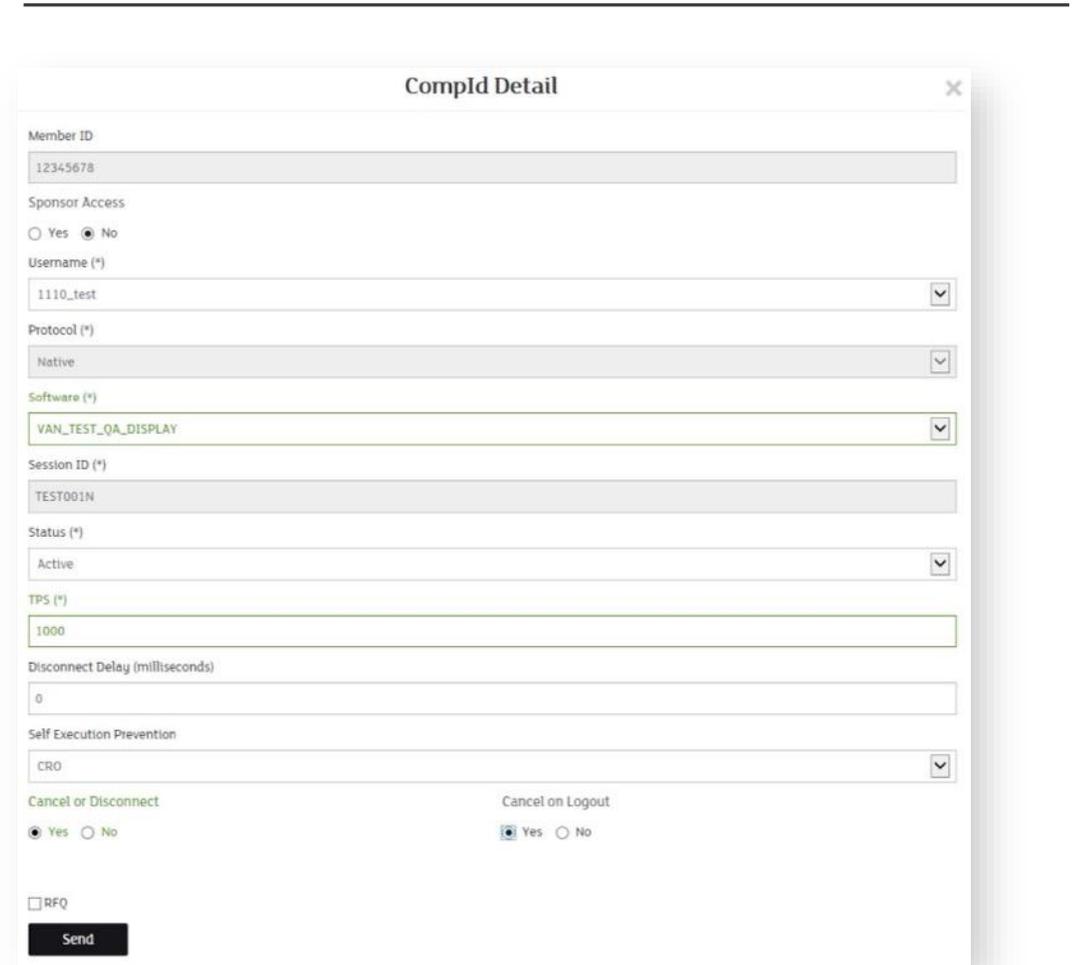


Figure 2.10 TPS rejection message

# Comp ID Management

## Edit

Users can edit many of the parameters of existing Comp IDs. Fields highlighted blue in Figure 2.11 are locked and cannot be edited.



The screenshot shows a 'CompId Detail' form with the following fields and options:

- Member ID: 12345678
- Sponsor Access:  Yes  No
- Username (\*): 1110\_test
- Protocol (\*): Native
- Software (\*): VAN\_TEST\_QA\_DISPLAY
- Session ID (\*): TEST001N
- Status (\*): Active
- TPS (\*): 1000
- Disconnect Delay (milliseconds): 0
- Self Execution Prevention: CRO
- Cancel or Disconnect:  Yes  No
- Cancel on Logout:  Yes  No
- RFQ
- Send button

Figure 2.11 Editing a Native Comp ID

# Comp ID Management

The member portal has an 'edit multiple' function which enables a user to perform a mass update by selecting multiple Comp IDs and clicking on the **Edit Selected Comp IDs** button.

The screenshot displays the 'Comp ID Management' interface. At the top right, there are three buttons: 'Add new CompId', 'Clone CompId', and 'Edit Selected CompIds'. Below these are search filters for 'Username', 'Protocol', 'Session ID', 'Software', and 'Status', each with a dropdown menu. A 'Search' button is located to the right of the 'Status' filter. Below the filters, the text 'Current compID configuration:' is followed by a table of configurations. The table has columns for 'Username', 'Protocol', 'Session ID', 'Software', 'Status', 'TPS', and 'Sponsor Access'. Two rows are visible, both with checked checkboxes in the first column, indicating they are selected.

<input type="checkbox"/>	Username	Protocol	Session ID	Software	Status	TPS	Sponsor Access
<input checked="" type="checkbox"/>	1110_test	Native	TEST002N	VAN_TEST_QA_DISPLAY	Active	1000	false
<input checked="" type="checkbox"/>	1110_test	Native	TEST001N	VAN_TEST_QA_DISPLAY	Active	1000	false

Figure 2.12 Selecting multiple IDs via the check box

# Comp ID Management

Common fields can be updated with new values that will be applied to all sessions listed at the top of the form.

## Sponsored Access IDs

A Sponsored Access Native ID is automatically created when a new Trader Group ID is created with the Sponsored Access field populated with 'Y' in the Cash Market Access module.

The Native ID must be linked to a sponsored access drop copy Comp ID.

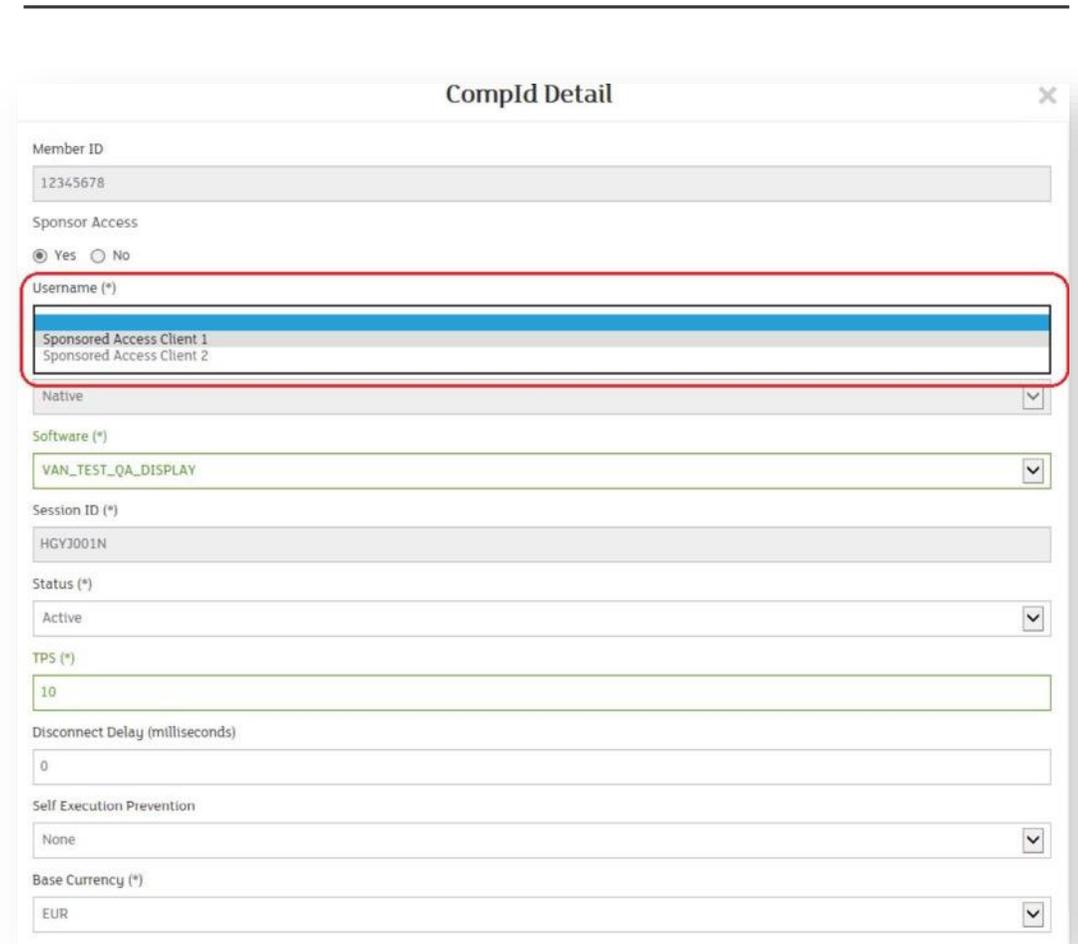
Figure 2.13 Editable fields across selected Comp IDs

Figure 2.14 Reminder message on a Sponsored Access Native IDs

# Comp ID Management

When completing the technical requirements on the Native ID, the sponsored access client the Native ID belongs to (the clients are configured by market access in the back end) should be chosen in the Username field. Base currency, Order value and Max Gross consideration values need to be submitted. The Market Access team will associate sponsored access clients to a member firm so that they can be selected in the Comp ID details.

**Note: the Order Value and Max Gross consideration are only used for the initial setup of the Native IDs; these limits are managed via the Sponsored Access Portal.**



**CompId Detail**

Member ID  
12345678

Sponsor Access  
 Yes  No

Username (\*)  
Sponsored Access Client 1  
Sponsored Access Client 2

Native  
▼

Software (\*)  
VAN\_TEST\_QA\_DISPLAY  
▼

Session ID (\*)  
HGVJ001N

Status (\*)  
Active  
▼

TPS (\*)  
10

Disconnect Delay (milliseconds)  
0

Self Execution Prevention  
None  
▼

Base Currency (\*)  
EUR  
▼

Figure 2.15 Sponsored Access Native Comp ID request

# Comp ID Management

Once the Native technical requirements are requested, a sponsored access selected Drop Copy will need to be created and the Native ID configured to it via the Selected ID field. If a sponsored access selected Drop Copy already exists for the sponsored access client, the Native ID can be configured to the existing sponsored access selected Drop Copy (no need to create a new one).

Member ID  
12345678

Sponsor Access  
 Yes  No

Username (\*)  
Sponsored Access Client 1

Protocol (\*)  
Selected Drop Copy

Software (\*)  
ULLINK

Session ID (\*)  
LL0LULLDC01

Status (\*)  
Active

TPS (\*)  
20

Disconnect Delay (milliseconds)  
0

Selected Ids  
HGYJ001N

Cancel or Disconnect  
 Yes  No

Cancel on Logout  
 Yes  No

Figure 2.16 Sponsored Access selected Drop Copy

# Self execution prevention (SEP)

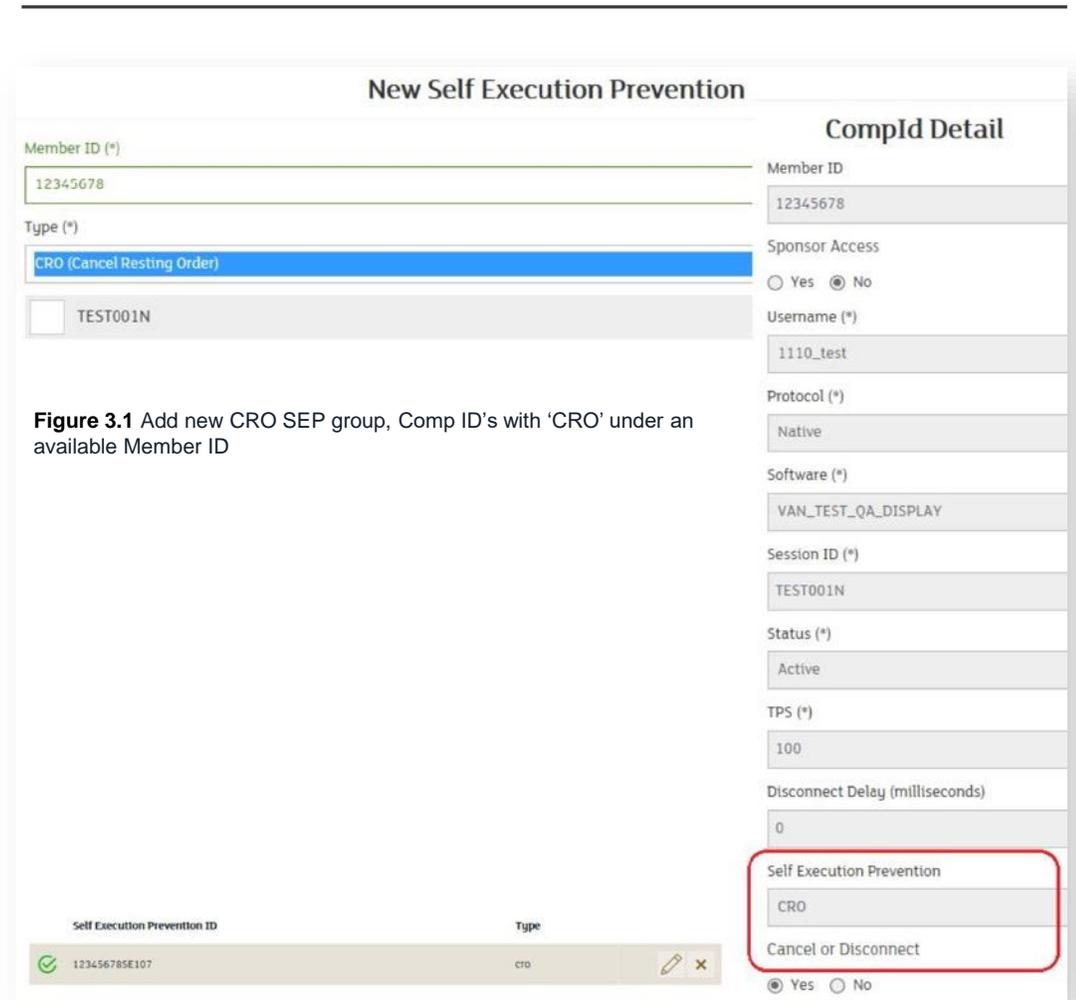
## Interface

When this area is accessed, a list of SEP groups and their instruction type is displayed in the main body of the page. New SEP groups can be added by clicking on the **Add New Group** button at the top of the page.

## Add new SEP group and add a Trading ID to the group

For each new SEP group, an instruction type must be specified. Once created, select the SEP group and a list of trading IDs (Native and FIX trading) configured with the SEP instruction type matching the group will be displayed. Users can select the trading IDs they want to associate with the group.

The SEP group name is automatically generated. Users can add or remove trading IDs from the group or delete the group.



**New Self Execution Prevention**

Member ID (\*)  
12345678

Type (\*)  
CRO (Cancel Resting Order)

TEST001N

**CompId Detail**

Member ID  
12345678

Sponsor Access  
 Yes  No

Username (\*)  
1110\_test

Protocol (\*)  
Native

Software (\*)  
VAN\_TEST\_QA\_DISPLAY

Session ID (\*)  
TEST001N

Status (\*)  
Active

TPS (\*)  
100

Disconnect Delay (milliseconds)  
0

Self Execution Prevention  
CRO  
Cancel or Disconnect

Yes  No

Self Execution Prevention ID	Type
12345678SE107	cro

Figure 3.2 SEP group after creation

# Connectivity

## SAPs

In the SAP view the user will see list of active SAP connections to the LSEG London Data Centre associated with the member firm. The SAPID, address, production IP range and bandwidth related to each SAP are listed. The user can export this data via the download button at the bottom of the page.

Site Area: London Stock Exchange 1110\_test Welcome, Will White LOGOUT English

## Member Portal

London Stock Exchange Group

Home Member Requests Membership Management Company User Management

→ London Stock Exchange

### LSE Trading Services Cash

#### Membership Profile

- Company Profile
- Membership Information
- Contacts
- Cash Market Access

#### Technical requirements and data

- MIT Configuration
- Connectivity
- Internet Enablers
- SAPs**
- Market Data Feed

### SAPs

Below are your active SAP ID connections to the Millennium Trading System. You can view details of the SAPs and make firewall enablement requests for TCP services here. The policy groups consist of:

Group Name	TCP Services Associated
Trading	Native FIX Trading Post Trade Drop Copy Gateway
Info [GTP+MITCh]	MITCh Replay Recovery GTP Replay Recovery
ftp/sftp	reference-data
Sponsored Access Portal	Sponsored Access Portal
Tradecho FIX GW	Tradecho FIX Gateway

SAPID	Primary Address	IP Address Range	bandwidth
Customer SAP 1	1110_test, 1110_test 1110_test - American Samoa	10.123.123.123/25	1Gb
Customer SAP 2	NULL EC4M London - United Kingdom	10.321.321.321/26	10Gb

Download Report

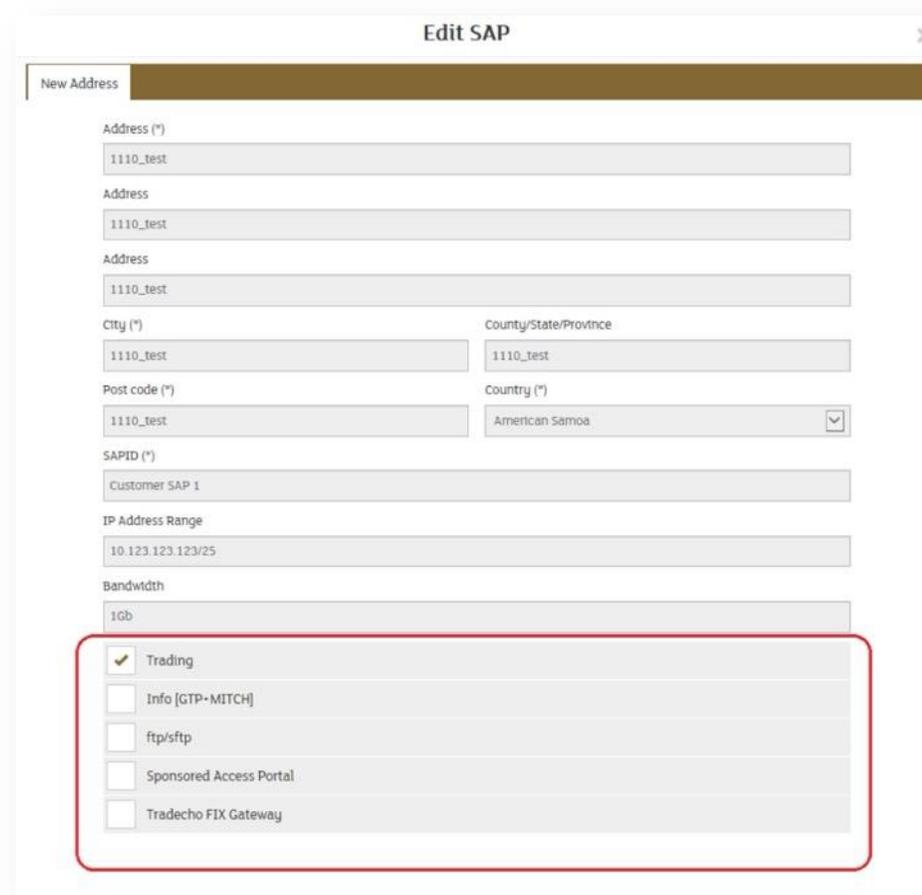
Figure 4.1 SAP interface view

# Connectivity

## Request firewall enablement via a SAP

The user can request firewall enablements for a SAP by selecting the SAP and requesting one or more of the firewall group options.

When a SAP is selected, the firewall groups can be edited at towards the bottom of the form. A description of the services related to each firewall group is detailed in the SAP interface.



The screenshot shows the 'Edit SAP' form with the following fields and values:

- New Address** (tab selected)
- Address (\*)**: 1110\_test
- Address**: 1110\_test
- Address**: 1110\_test
- City (\*)**: 1110\_test
- County/State/Province**: 1110\_test
- Post code (\*)**: 1110\_test
- Country (\*)**: American Samoa
- SAPID (\*)**: Customer SAP 1
- IP Address Range**: 10.123.123.123/25
- Bandwidth**: 1Gb
- Services** (highlighted with a red box):
  - Trading
  - Info [GTP-MITCH]
  - ftp/sftp
  - Sponsored Access Portal
  - Tradecho FIX Gateway

Figure 4.2 Firewall groups within the SAP form

# Connectivity

## Internet enablements

New Internet enablements can be requested by clicking on the **Request Modification** button. The IP addresses for the enablements must be entered.

Enter internet IP/s by separating each IP/IP range with a ‘;’ delimiter and select the internet service. Note, there is a 75-character limit to the IP address field so a new request box will need to be selected (+) if this limit is reached to continue the request.

Select the + and – buttons to add or delete a request.

The screenshot shows the 'Internet Enablements' section of the LSE Trading Services interface. It is titled 'LSE Trading Services : Cash' and 'Internet Enablements'. Under 'Membership Profile', there are buttons for 'Company Profile', 'Membership Information', 'Contacts', and 'Cash Market Access' (which is checked). Under 'Technical requirements and data', there is a button for 'MIT Configuration' (checked). A 'Request modification' button is visible. A yellow box indicates 'No Internet Enablements'. A 'Download Report' button is at the bottom right.

Figure 4.3 Internet Enablements interface

The screenshot shows the 'Internet Enablements Edit' dialog box. It has a close button (X) in the top right. The 'IP Address (\*)' field contains the text '123.123.123.123; 222.222.222.222; 321.321.321.321/26; 444.444.456.73-80'. Below this is a 'Firewall Enablements' dropdown menu with 'Sponsored Access Portal' selected. There are '+' and '-' buttons to the right of the dropdown. The same fields are repeated for 'TradEcho Web Portal'.

Figure 4.4 Request new internet enablement for LSE Sponsored Access Portal and TRADEcho Web Portal

# Connectivity

Once accepted, the internet enablements will be live and displayed as per Figure 4.5.

**LSE Trading Services** : Cash

### Membership Profile

- Company Profile
- Membership Information
- Contacts
- Cash Market Access

### Technical requirements and data

- MIT Configuration
- Connectivity
- Internet Enablements
- SAPs

### Internet Enablements

Member firms requiring access to the below internet services can request in this section by providing public internet source address/es for:

- Sponsored Access Portal – for member firms that provide Sponsored Access to non-member firms, can request access to the Sponsored Access portal
- TradEcho Portal – For member firms using TradEcho as an off book reporting venue and plan to manage sessions and/or submit trade reports via the TradEcho Web portal

[Request modification](#)

No Internet Enablements

[Download Report](#)

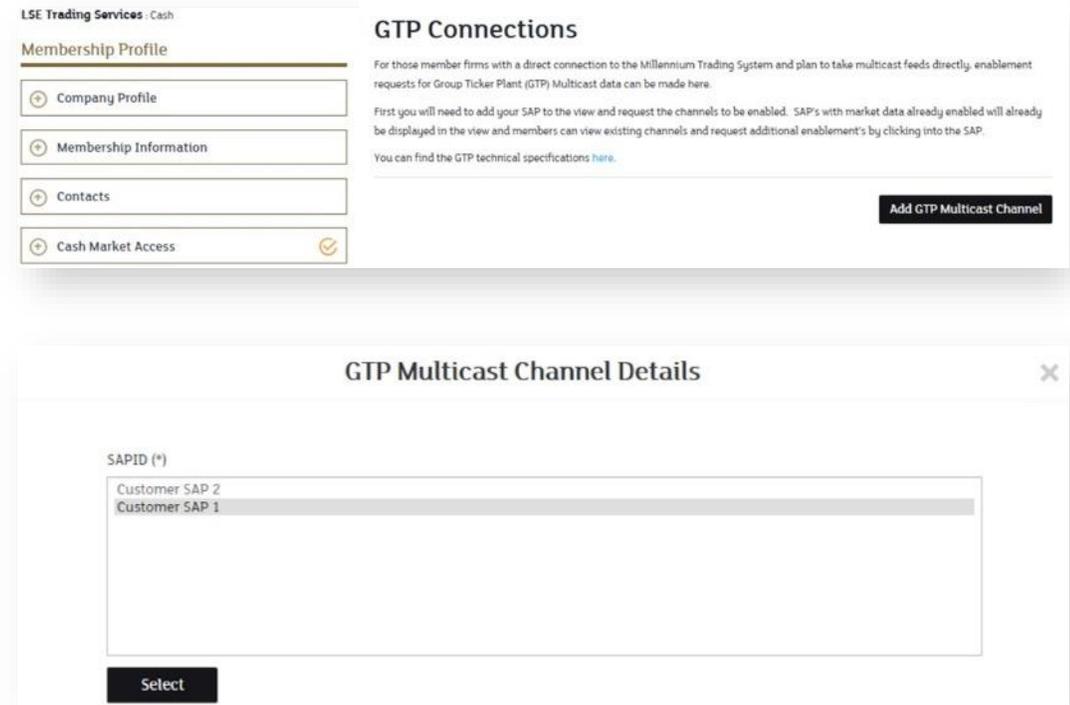
Figure 4.5 Live internet enablement

# Market data

This module is only relevant for member firms receiving market data directly from LSE/Turquoise. In this area, member firms can configure multicast enablements for GTP and MITCH services.

## GTP Multicast

To request multicast enablements for a SAP with no multicast enablements, the user should first click on the Add GTP Multicast button. In the new screen, the SAP can be selected together with the multicast channels for enablement.



**Figure 5.1** Selecting the SAP to enable for multicast on a SAPID without any existing multicast enablements

# Market data

**Figure 5.2** Selecting the SAP to enable for multicast.

**GTP Multicast Channel Details**

SAPID (\*)  
Customer SAP 1

Indexes  
Notes

Notes for Back office user for this request.

FTSE 100 - Group A

GTP Connection Profiles

Top of Book  
 Market By Order  
 Market By Price  
 Full Depth Incremental L2

FTSE 100 - Group B

GTP Connection Profiles

Top of Book  
 Market By Order  
 Market By Price  
 Full Depth Incremental L2

**Figure 5.2** Selecting the SAP to enable for multicast

# Market data

For multicast requests on a SAP that has existing multicast enablements, the user can select the SAPID to edit directly from the main body of the page.

First you will need to add your SAP to the view and request the channels to be enabled. SAP's with market data already enabled will already be displayed in the view and members can view existing channels and request additional enablement's by clicking into the SAP.

You can find the GTP technical specifications [here](#).

**Add GTP Multicast Channel**

Channels

All

SAPID	Channels	
 Customer SAP 1	FTSE 100 - Group A, FTSE 100 - Group B	 
 Customer SAP 2	FTSE 100 - Group A, FTSE 100 - Group B	 

**Download Report** 

Figure 5.3 SAP ID added to the GTP page

# Market data

## MITCH Multicast

To request multicast enablements for a SAP with no multicast enablements, the user should first click on the **Add MITCH Multicast** button. In the new screen, the SAP can be selected together with the Multicast channels for enablement.

A SAPID will need to be added to the MITCH area even if it is already configured with GTP enablements. Figure 5.4 displays the enablement form for MITCH.

### New MITCH Multicast Channel

SAPID (\*)

Customer SAP 1

Indexes

Notes

Notes for Back office user for this request

FTSE 100 - Group A

Channel Types	A Feed	B Feed
<input checked="" type="checkbox"/> Standard	224.4.2.32	224.4.3.32
<input type="checkbox"/> Prime	224.4.2.56	224.4.3.56
<input type="checkbox"/> Duplicate	224.4.2.48	224.4.3.48

FTSE 100 - Group B

Channel Types	A Feed	B Feed
<input checked="" type="checkbox"/> Standard	224.4.2.33	224.4.3.33
<input type="checkbox"/> Prime	224.4.2.57	224.4.3.57
<input type="checkbox"/> Duplicate	224.4.2.49	224.4.3.49

Figure 5.4 MITCH Multicast enablement form

# Software

Users can view their certified proprietary software in the software area with related certification dates. The software listed in this area will appear in the software drop-down list in the Comp ID management area.

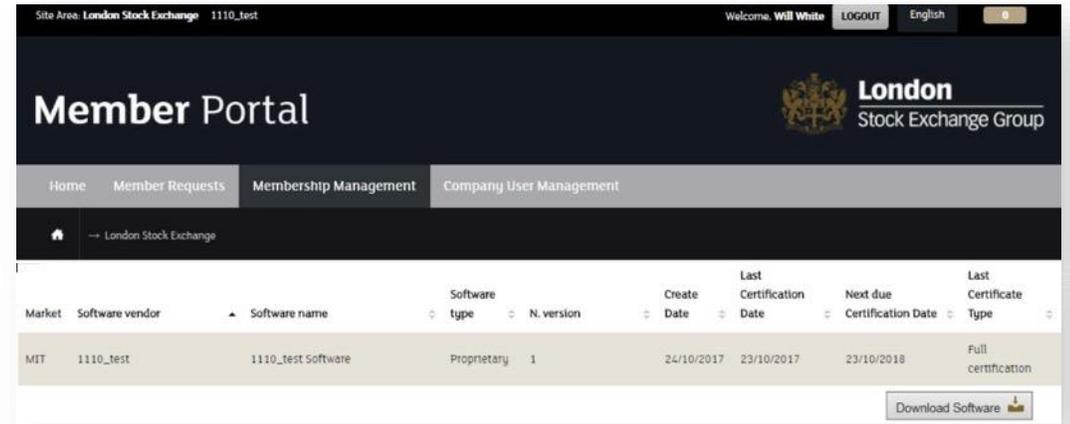


Figure 6.1 Software interface

# Contacts and support

For support with managing your firm's technical configuration in the Member Portal, please contact the Technical Account Management Team:

**Telephone:** +44 (0)20 7797 3939

[londontam@lseg.com](mailto:londontam@lseg.com)

Related Technical Specifications for the Millennium Exchange trading system are available online:

[London Stock Exchange Technical Library](#)

[Turquoise Document Library](#)



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**TURQUOISE**