

LMEtrader User Setup Guide for LMEselect 10

Please respond to:

tradingoperations@lme.com

Contents

| 1 | Over | Overview and Key Information | | | | | |
|---|---------|---|----|--|--|--|--|
| | 1.1 | Contact Information | 4 | | | | |
| | 1.2 | Onboarding Process and Task Ownership | 4 | | | | |
| | 1.3 | LMEtrader Trade and Setup App Links | 5 | | | | |
| 2 | LME | trader v10 UAT and Production Onboarding | 5 | | | | |
| | 2.1 | Admin or Trading Users who have not been onboarded to LMEtrader v9 or v10 | 5 | | | | |
| | 2.2 | Existing Admin or Trading Users onboarded to LMEtrader v9 UAT or v9 PROD | 5 | | | | |
| | 2.3 | LMEptrm v10 UAT and Production Onboarding Steps | 5 | | | | |
| 3 | Logo | jing into LMEtrader | 6 | | | | |
| | 3.1 | Initial Login Process | 6 | | | | |
| 4 | Merr | ber Admin Responsibilities/Tasks | 7 | | | | |
| | 4.1 | Step 1: Account Creation | 7 | | | | |
| | 4.1.1 | Apply Account Restrictions | 9 | | | | |
| | 4.2 | Step 2: User Creation | 10 | | | | |
| | 4.2.1 | Suggested User Roles and Permissions | 12 | | | | |
| | 4.3 | Step 3: Assign Local Limits to a User or Account | 13 | | | | |
| | 4.4 | Step 4: Assign Users to an Account | 14 | | | | |
| | 4.5 | Step 5: Add Connection and Assign Connection to an Account | 15 | | | | |
| | 4.6 | Step 6: Order Tag Default and Profile Creation | 15 | | | | |
| | 4.6.1 | Mandatory User/Account Fields | 18 | | | | |
| 5 | LME | ptrm Member Risk Admin Setup | 19 | | | | |
| | 5.1 | Member Risk Admin (RA) Setup | 19 | | | | |
| A | ppendix | A: Permissions per User Role | 20 | | | | |
| | A.1 | LMEtrader Company Member Admin (MA) | 20 | | | | |
| | A.2 | LMEtrader Trading Admin (TA) | 20 | | | | |
| | A.3 | Trading User (GT) | 21 | | | | |
| | A.4 | Trading Supervisor (GS) | 23 | | | | |
| | A.5 | Backoffice User (GB) | 25 | | | | |

Document History

| Version | Date | Change Description |
|---------|------------|---------------------|
| 1.1 | 12/03/2024 | Updated release |
| 2.0 | 31/01/2025 | Updated for Go-Live |
| | | |

1 Overview and Key Information

This document provides a step-by-step guide for Member Administrators to help them define and manage the LMEtrader Account structure. The guide includes information on assigning Users and managing Accounts, Connections and the Risk Management function.

1.1 Contact Information

| Company | Phone | Email |
|------------------------|-----------------|---------------------------|
| TT Onboarding Team | N/A | onboarding@trade.tt |
| TT Support | (020) 7929 6161 | N/A |
| LME Trading Operations | (020) 7113 8200 | tradingoperations@lme.com |

1.2 Onboarding Process and Task Ownership

LMEtrader and LMEptrm are owned and managed by Trading Technologies (TT). The TT Onboarding Team is responsible for setting up the Member Company and the initial Company Member Admin. The Member Admin's email address should be communicated to TT Onboarding by the Member. The Member Admin user will then receive an invitation to the Member Company. Once this has been accepted, the Member Admin will be able to setup their account structure and manage users.

The following table provides an overview of the functions and responsibilities:

| Function | TT Onboarding | Company Member Admin | LME Trading Operations |
|---|---------------|-------------------------|---------------------------|
| Create Member Admin User (initial User) | ✓ | | |
| Create Parent Accounts and Sub- Accounts | | \checkmark | |
| Create Order Entry Member Connection | | \checkmark | |
| Assign Connection to an Account | | \checkmark | |
| Create Admin/Trading Users | | \checkmark | |
| Assign Member Admin/Trading users to Accounts | | \checkmark | |
| Create User Groups and add Users to the User Groups (optional) | | \checkmark | |
| Create Order Tag Default (OTD) profiles (optional) | | \checkmark | |
| Create Member Risk Admin User / LMEptrm Account and Connection | | | \checkmark |

| Function | TT Onboarding | Company Member Admin | LME Trading Operations |
|---|---------------|---|---------------------------|
| Create Risk Groups and End Clients, set PTRM limits | | ✓ (Member Risk Admin in LME Company) | |

1.3 LMEtrader Trade and Setup App Links

| Application | UAT Link | Prod Link |
|-----------------|--|--|
| Setup/Admin App | https://setup-uat.trade.tt/ext-uat- cert?idp=Ime#company/ | https://setup.trade.tt/ext-prod- live?idp=lme |
| Trade App | https://lme-uat.trade.tt/workspaces/latest | https://lme.trade.tt |

2 LMEtrader v10 UAT and Production Onboarding

A significant difference between v9 (UAT and PROD) and v10 (updated UAT and PROD) is that in v10, rather than users/accounts/connections residing under the LME Company, each Member Firm will have their own unique company. Email addresses can only reside in one company at a time, see the following:

2.1 Admin or Trading Users who have not been onboarded to LMEtrader v9 or v10

Contact the TT Onboarding Team for initial Member Admin setup.

Provide the email address of Member Admin to be onboarded.

2.2 Existing Admin or Trading Users onboarded to LMEtrader v9 UAT or v9 PROD

Users who have onboarded with their primary email address will need to do one of the following:

Contact TT Onboarding to have the current user 'retired,' and then invited to the Member Company. Onboarding can assist in cloning the existing user so settings remain intact.

Impact: Users will no longer be able to log into LMEtrader v9 UAT or PROD and will have no access to User Setup screens. Customers who wish to screenshot or otherwise document their current settings should do this *prior to* the retirement of their User.

Or:

Users can provide a proxy email address. This will allow customers to log into both LMEtrader v9 (UAT or PROD) and LMEtrader v10 (UAT or PROD). It is recommended that Users update their LMEtrader v9 User with the proxy email address, so a primary email address can be used in LMEtrader v10. When Select/LMEtrader v9 is decommissioned, the proxy email address will no longer be needed.

2.3 LMEptrm v10 UAT and Production Onboarding Steps

LMEptrm Users, for the initial go-live, will remain part of the parent LME Company. Risk Admin Users will be part of the LME Company, while LMEtrader Admin and Trader Users will be part of the Member's unique company. Refer to LMEptrm Member Risk Admin Setup for details.

3 Logging into LMEtrader

3.1 Initial Login Process

- 1. TT will send an invitation for LMEtrader. Click 'Get Started' in the email to login.
- 2. In the New User section of the LMEtrader login screen, enter your email address and click **Create Account**. This must be the same email address that was provided to TT Onboarding and the address which received the invitation.



- 3. Complete the account creation form and click **Create Account**. After creating an account, you will receive an email requesting you to "Confirm Email".
- 4. In the registration email you received, click **Confirm Email**.

Note: An email address can only be used for one User/Login for LMEtrader. If you already have an account registered with the current email, see <u>LMEtrader v10 UAT and Production Onboarding</u> for more information.

- 5. Read and accept the service agreement and you will be directed to the Trade App.
- 6. If logging in as a Member Admin User, launch the Setup App via the link provided in <u>LMEtrader Trade &</u> <u>Setup App Links</u>.

Note: When logging into LMEtrader, your account will lock out after 5 incorrect attempts. If this occurs, please wait 15 minutes until you make another attempt.

All Users should log out of LMEtrader and LMEptrm each night to avoid any cache-related issues.

4 Member Admin Responsibilities/Tasks

Member Admins should follow the steps in the given order for user access to LMEtrader:

4.1 Step 1: Account Creation

The LMEtrader Account Structure provides flexibility where a Member Admin higher up in the hierarchy can manage their account and subsequent sub accounts.

Refer to the TT Help Library for more information:

https://library.tradingtechnologies.com/user-setup/ac-accounts-and-sub-accounts.html

https://library.tradingtechnologies.com/user-setup/ac-accounts-and-sub-accounts.html#tiered-risk

Conceptually within LMEtrader a member should be thought of as an account.

1. Login to the LMEtrader Setup App (as a Member Admin user) and select **Accounts** on the navigation pane.

2. Click +New Account.

| 🕙 Trade ADL Monitor Setup | Score Inbox TTID | | | | | | | | | | |
|---------------------------|--------------------------------------|---------------------|-----------------------------|---|------------------------------|-----------------------------|---------------------|--|--|--|--|
| 🛔 Users | + New Account 2 Clone In Delete | | | | | | | | | | |
| Accounts | 🖸 Name 👻 | Company | Company Type T | | Disabled by Auto-liquidation | Disabled by Max Order Limit | Trading Disabled Su | | | | |
| • Limite | O LONDON METAL EXCHANGE | London Metal Exchan | Non-Routing | ~ | | | | | | | |
| | | TradingTechnologies | Non-Routing | | | | | | | | |
| Connections | ZZZTestAcc1 | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| 🕈 Algos | B Client 101 | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| Background Tasks | BBBTestAcc2 | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| | D b Client 101 | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| Company Settings | CCCTestAcc1 | London Metal Exchan | Non-Routing | | | | | | | | |
| | B Client 102 | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| Reports) | • _ | London Metal Exchan | Routing (external clearing) | | | | | | | | |
| noporto. | | London Matel Evchan | Non-Routing | ~ | | | | | | | |
| More • | Plasse select an item to see ite dat | taila | | | | | ••• | | | | |

3. Enter the Account Information in the following fields:

| Mandatory Fields | Description |
|---------------------|---|
| Account Name/Number | Account Name |
| Parent | Parent Account |
| Туре | Routing behaviour for the account: Routing (external routing) - Defines the parent account as the clearing account sent to the exchange on all orders. Routing (internal sub-account) - Defines the account as a sub-account that is not routed to the exchange. This allows you to assign the user to an internal account for routing and risk purposes, even though a parent account will be sent to the exchange as the actual clearing or omnibus account. Non Routing - Not sent to the exchange. Recorded internally and can be used for back office purposes For more information, see https://library.tradingtechnologies.com/user-setup/ac-creating-a-new-account.html |

| Mandatory Fields | Description |
|---|--|
| Order cross prevention | Leave as 'Not Applied'. Not applicable to LME |
| Disable Trading checkbox | Select whether users should be allowed/disallowed to trade on this account |
| Check Quantity And Check Time Frame | Not applicable for LME Users |
| Order Management System (OMS) Settings | Not applicable for LME Users |

4. Click Create.

| Trade ADL Monitor Setup ! | Score Inbox | | | | | | | | | | | |
|---------------------------|---|---------------------|-----------------------------|----------------------------|-------------------|------------------|---------------|--------------|--------|------------------------------|-----------------------------|---------------------------|
| | + New / | Account 관 여 | lone X Delet | - | | | | | | | | |
| Users | O Nam | ne | | Compar | ny 🔺 | Туре | | Trading Disa | bled | Disabled by Auto-Ilquidation | Disabled by Max Order Limit | Trading Disabled |
| Accounts | O LM | E T.O. Head Account | | London | Metal Exchan | Non-Routing | | ~ | | | | |
| Limits | 0 7 | FEOT | | London | Matal Evolution | Pauting (autor | al clossing) | | | | | |
| Connections | | | | Londor | Motal Excha | Bourting (extern | mal clearing) | × × | | | | |
| Algos | | LON LONOPL | | London | r metar Excitatio | . Routing (exte | | • | | | | |
| | | | | | | | | | | | | |
| Background lasks | 4 | | | | | | | | | | | |
| moany Sattings | | | Parante TEST | | 1 | | | | | | ••• | |
| ipany secondar | Accounts TE | | arenti resi | | | | | | | | | |
| | Settings | Users Limits | SOD/Credit | Connections | Exchanges | FIX Sessions | Restrictions | Sharing | Change | e Logs | | |
| orts • | | | | | | | | | | | | |
| | Account In | ntormation | | | | | | | | | | |
| • | Accour | nt Name/Number | TEST - EUROPE | | | | | | | | | |
| Secondary Acct Map | | | | | | | | | | | | |
| er Tag Defaults≯ | | | | | | | | | | | | |
| Profiles | | Description | No Description | | | | | | | | | |
| Trader IDs | | Displayed Broker | London Metal Exe | indon Metal Exchange (LME) | | | | | | | | |
| FIX Rulesets | | | | | | | | | | | | |
| EIX Consistent | Parent TEST | | | | | | | | | | | • |
| FIX Sessions | Type Pauling (asternal al | | | | aarinn) | | | | | | | _ |
| User Groups | | type | Kouting (external clearing) | | | | | | | | | |
| Risk Groups | | | send to exchange | | | | | | | | | |
| Organizations | Order | Cross Prevention | Not Applied | | | | | | | | | • • • • • • • • • • • • • |
| Authorized Traders | | | No rule applied | | | | | | | | | |
| | " Use Reject New Instead of Position Transfer within the same account | | | | | | | | | | | |
| Counterparties | G to market with Position Transfer balances w/o waiting for Cancel/Reducing ACK | | | | | | | | | | | |
| Change Log | Disable reading (this account, only) | | | | | | | | | | | |
| | Disble trading (autoligation) | | | | | | | | | | | |
| | Disable trading (max order limit reached) | | | | | | | | | | | |
| | Prevent Durlinsto Ordan | | | | | | | | | | | |
| | Number of orders | | | | | | | | | | | |
| | | Sharely Times From | Alexandra af as "" | | | | | | | | | |
| | Check Time Frame Number of milliseconds | | | | | | | | | | | |

5. Populate the various tabs:

| Tabs | Description |
|-------|--|
| Users | See <u>Assign Users to an Account</u> . On the Users tab, you can view and configure all authorised users of an account who trade, as well as you can assign and remove account access to one or more users. Orders can be submitted using a single account but a user can be assigned to multiple accounts. |
| | Note : If two users are assigned to the same account, both users can view all order activity in that account. |

| Tabs | Description |
|--------------|---|
| Limits | LMEtrader-specific limits applied at the GUI level. These are different than the PTRM limits managed by Risk Admins. For more information, see https://library.tradingtechnologies.com/user-setup/rl-account-position- limits.html |
| SOD/Credit | Deselect 'Create start-of-day (SOD) records'. Credit limits will be set by PTRM Admins. |
| Connections | See Add Connection and Assign Connection to Account |
| Exchanges | Select 'LME_NTP' |
| FIX Sessions | Not Applicable |
| Restrictions | See <u>Applying Account Restrictions</u> Note : Some order types will be restricted at the Parent level as these are not supported by the Exchange. For example, TT Premium Order Types |
| Change Logs | No Input Required |

4.1.1 Apply Account Restrictions

Member Admins can use the Restrictions tab to restrict whether users can manually update positions on the account or use the account to submit certain order types.

- 1. Select **Accounts** on the navigation pane and select an account in the data grid.
- 2. Select the **Restrictions** tab and in the General section, select the Apply Restrictions checkbox. These apply to both the account and the sub-account. By default, restriction options are set to Deny.
- 3. Select Allow on the following restrictions:
 - Modify Orders
 - Submit Native Orders
 - GTC/GTDate
 - Mobile
 - Update positions (e.g. create manual fills)
 - Confirm Fills
 - Modify clearing account on fills.

The following permissions and order types should be restricted at Parent level as these are not supported by LME:

- Block/Cross Orders
- Market, Auto spreader, Aggregator, TT Algo SDK, ADL, ADL Algo Approval Required, Mobile
- TT Premium Order Types
- TT Synthetic Order Types (except TT Iceberg)
- Modify clearing account on working orders (ASX only).

4.2 Step 2: User Creation

Only Member Admins can create and invite new users to LMEtrader and LMEptrm.

- 1. Login as a Member Admin.
- 2. Select Users on the navigation pane and click +New User.
- 3. On the New User dialog box, select Yes and click Continue.
- 4. Enter the user profile in the Identification and Contact Information sections.

In the **Status** section, the default Trade Mode will be selected as TT Standard (View Only). The trade modes allow the Member Admin to control which professional Trade application features are accessible to a user on the TT platform. Refer to <u>User Roles and Permissions</u> for the Trade Mode appropriate for different User Roles.

Advanced Settings, Company Relationships and TT Order Management System are **out of scope for LME** and hence no input is required here.

| Trade Modes | Description |
|----------------------------|--|
| TT Standard | Enables order routing using the basic Trade app functionality without use of any professional features. |
| TT Pro | Enables use of the following professional Trade app features: Autospreader® Autotrader™ Rule Builder Algo Dashboard ADL Aggregator TTAPI SDK Note: When you select the Professional trade mode for an active user, the user is billed at a higher rate for the month in which this mode is enabled. This is out of scope for LME users. |
| TT Standard (View Only) | Enables access to professional features but prevents order routing using these features. This is the default setting for new users. |

Member Admins can then use the **Status** section to send an invitation via email or to view the user's invitation status. To send an invitation the Email field must be populated in the Identification section.

5. In the Status section, click Send Invitation.

| Status | |
|---|--|
| Invitation Status: Sent | 션] Copy Link Resend Ø Revoke |
| | Invitation Details |
| User Blocked Inactive Internal Company User | Prevents the user from performing any action or viewing any data. They will not be able to log in to the TT trading application. |
| Trade Mode TT Standard (View Only) View Only (no Order Routin | y |

6. Verify the Invitation Status in the Status section. The status should show 'Sent'.

If the status is one of the following, click **Invitation Details** to troubleshoot and resend the invitation:

- Sending failed the invitation could not be sent from LMEtrader
- Delivery failed the invitation could not be delivered to the user's email.

The following options are available:

| Options | Description |
|-----------|---|
| Copy Link | Copy the invitation acceptance link that was previously sent to a provisional user. You can then distribute the link to the user via an alternative method outside of the invitation process. |
| Resend | Resends the same invitation link to a provisional user. An invitation will automatically expire after 60 days |
| Revoke | Revokes the provisional user's invitation. A message is sent to the user's email address in the Identification section. |

4.2.1 Suggested User Roles and Permissions

Based on the User Role, a Member Admin will grant the necessary permissions for users. The table below shows some examples of User Roles and Permissions, however settings can be customised.

| Role | Settings | | Permissions | | | Exchanges (LME_NTP) |
|---------------------------------|----------------------------|------------------------|---------------------------------|-------------------|--|---------------------------------------|
| Role | Trade Mode | LMEptrm Permissions | Admin Permissions | Trade Permissions | Order Permissions | Subscriber Market Data Permissions |
| Company Member Admin (MA) | TT Standard (View Only) | Not Set | Admin (Full Admin Access Level) | Trading Disabled | None | Deny/Sessions = 0 |
| Member Trading Admin (TA) | TT Standard (View Only) | Not Set | Admin (Full Admin Access Level) | Trading Disabled | None | Deny/Sessions = 0 |
| Trader (GT) | TT Standard | Not Set | None (User Access Level) | Trading Enabled | Delete Orders Modify Orders Submit Native Orders GTC/GTDate TT Synthetic Order Types TT Iceberg | Allow/Sessions = 1 |
| Trading Supervisor (GS) | TT Standard | Not Set | None (User Access Level) | Trading Disabled | Delete Orders | Allow/Sessions = 1 |
| Back Office (GB) | TT Standard (View Only) | Not Set | None (User Access Level) | Trading Disabled | None | Allow/Sessions = 1 |

The following permissions/order types/settings are out of scope or not applicable for LMEtrader/LMEselect 10 and the checkboxes should remain unselected:

- Submit Staged Orders
- Manage Own Staged Orders
- Manage Staged Orders without Claiming
- Manage Own Staged Orders
- Manage Orders Staged by Others, Submit Staged Orders
- Modify clearing account on working orders (ASX only) is not in scope as this applies to the Australian Securities Exchange.
- Market This order types includes Market, Market If Touched or Market-To-Limit
- Mobile
- TT Premium Order Types
- Autospreader Determines whether the user can deploy synthetic spread strategies to an Autospreader SE server.
- Aggregator Determines whether the user can submit orders for aggregated instruments.
- TT Algo SDK Determines whether the user can deploy TT Algo SDK strategies to Algo SE servers.
- ADL Determines whether the user can deploy strategies to Algo SE servers. Includes ADL algos, TT Synthetic algos, and Autotrader.
- Require AutoRFQ for Cross trades When selected for a user or an account, this setting forces an RFQ prior to submitting a cross trade. Only a company administrator can enable this setting for a user/account in their company.
- Staged Order Risk Check
 - At Execution Risk checking is applied to the staged order account when related child orders are executed.
 - Upon Claim Risk checking is applied to the account when the staged order is claimed.

4.3 Step 3: Assign Local Limits to a User or Account

Company Member Admins and Risk Admins can set price, quantity and position limits for Accounts or Users using the Limits tab. This is not required.

- 1. Select **Accounts** on the navigation pane and select an account in the data grid.
- 2. Select the Limits tab.
- 3. In the Settings section, select the Apply Limits checkbox to enable limit checking for the account or user.

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|--------------------------------|--|------------------------------|---------------------------|------------------|------------------------------|-----------------------------|----------------------|-------------|----------------------|--------------------------|
| 🛔 Users | + New Account Pa Claue | × Delete | | | | | | | | Orid Opti |
| Accounts | O Name | 🔺 🕇 Company 🔺 | Туре | Trading Disabled | Disabled by Auto-liquidation | Disabled by Max Order Limit | Trading Disabled Sub | Order Cross | Create SODs | Create Spread SODs P |
| Limits | TEST - EUROPE | London Metal Excha | Routing (external clearin | ~ | | | | | ~ | |
| Connections | | | | | | | | | | |
| 🕈 Algos | | | | | | | | | | |
| 2 Background Tasks | | | | | | | | | | |
| | 4 | | | | | | | | | |
| Company Settings | Account: TEST - EUROPE Parent: | TEST | | | ••• | | | | | Total Rows Displaj |
| Reports • | Settings Users Limits SOD/ | Credit Connections Exchanges | FIX Sessions Restrictions | Sharing Chang | e Logs | | | | | |
| | Settings | | | | | | | | | |
| Less 💌 📎 Secondary Acct Map | Apply Limits Turns on/off limit checks | ing | | | | | | | | |

Note: If Apply Limits is selected, you must define product or contract limits for each product or contract that the user, parent account or child account is allowed to trade.

Note: Wholesale Limits do not apply to LME users or accounts.

4. In the Limits section either click +Add to create a new risk limit or select an existing limit.

If you select an existing limit, click **Copy** to copy product limits within the selected user's or account's limit tab.

If you click **+Add** to create a new risk limit, select the Exchange, Product Family, Product Type, Product, and/or Contract in the New Limit screen and click **Add**. By default, the risk limit will apply to all exchanges, product families, product types, products and contracts.

For more information, see https://library.tradingtechnologies.com/user-setup/rl-account-position-limits.html

4.4 Step 4: Assign Users to an Account

1. Select Accounts on the navigation pane and select an account in the data grid.

| 🕙 Trade ADL Monitor Setup | Score Inbox | | | | | | | | UAT Certification | on 👻 😡 Support 📓 | 0° himani.mody_ea | 🛛 🕪 Log Out |
|----------------------------|----------------------|----------------------------|--------------------------|-------------------|----------------------------|--------------------------------|----------------------|---------------------------------|-----------------------|----------------------------|-------------------|--------------|
| 🛔 Users | + New Account | Pa Clone X Delete | | | | | | | | | • | Grid Options |
| Accounts | O Name A | Company | Туре | Trading Disabled | Disabled by Auto-liquidati | on Disabled by Max Order Limit | Trading Disabled Sub | Order Cross C | reate SODs Create | Spread SODs Positi | Ion Roll (LME) | Override Re |
| A 11-11-1 | MFL MFL | London Metal Excha | Non-Routing | ~ | | | | | ~ | | | |
| Limits | | | | | | | | | | | | |
| Connections | | | | | | | | | | | | |
| 4 Algos | | | | | | | | | | | | • |
| Background Tasks | | | | | | ••• | | | | | Total Row | |
| - | Account: MFL Parer | ti LME I.O. Head Accour | nt Snow child accounts | | | | | | | | | |
| Company Settings > | Settings Users | Limits SOD/Credit | Connections Exchanges | FIX Sessions Res | trictions Sharing Ch | ange Logs | | | | | | |
| | Users | | | | | | | | | | × Remove | + Add |
| Reports • | 🗹 # Allas | Name | Email II | nherited Pos Upda | tes Confirm Fills Del O | ds Manage Staged w Block | Cross Submit Staged | Manage Own Staged Manage Staged | Only Allow Price I Mo | dify Clearing Modify Clear | ing Modify Ords | Place Native |
| | ✓ 16529 mfl_glc | sbal_trader mfl_global_tra | ade mike.north_gsf | | | | | | | | | |
| More + | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | 4 | | | | | | | | | | | Þ |
| | | | | | | | | | | | | |

2. On the Users tab, click +Add and on the list of users, click Select to assign a user to the account.

The Order Permissions and Additional Settings sections are displayed for the selected user.

3. By default, the checkboxes in Order Permissions and Additional Settings are unselected. Select the checkboxes as shown below in Order Permissions.

| Order Permissions | Additional Settings |
|--|--------------------------------------|
| | C Duravia Auto DEO for Constantos |
| Opdate positions (e.g., create mandarinis) | Require AutoRPQ for Cross trades |
| | Staged Order Risk Check At Execution |
| | |
| | |
| Only Allow Price Improvements on Child Orders (based on the parent limit price) | |
| Manage Staged Orders without Claiming | |
| Manage Own Staged Orders | |
| Manage Orders Staged by Others | |
| Modify clearing account on working orders (ASX only) | |
| Modify clearing account on fills | |
| Delete Orders | |
| Modity Orders | |
| Submit Native Orders | |
| Will allow user to directly submit exchange-supported order types, with the exception of Market orders | |
| Market | |
| GTC / GTDate | |
| Mobile | |
| Autospreader | |
| Aggregator | |
| TT Algo SDK | |
| ADL | |
| ADL Algo Approval Required | |
| TT Synthetic Order Types | |
| TT Timed | |
| TT Stop | |
| TT If-Touched | |
| TT Trailing Limit | |
| TT With-A-Tick | |
| Π Π ΟCO | |

Note: If a user is assigned to a parent account, then that user is also assigned to all child accounts and inherits the same user permissions assigned to a parent account.

If an account name is listed in the inherited column, it indicates that the user assignment and permissions for the selected account were "inherited" from this parent account.

More information on the checkboxes in Order Permissions, see <u>https://library.tradingtechnologies.com/user-setup/ac-assigning-a-user-to-an-account.html</u>

4.5 Step 5: Add Connection and Assign Connection to an Account

The Connections tab is used to create and manage LME connections (FIX sessions) for routing orders per account. The LME connections must be assigned to an account as a part of configuring the connection. Multiple accounts can be assigned to the same connection.

Company Member Admins will create the connection and assign it to the parent account. Available connections for an account can be viewed by selecting the account and the Connections tab.

Every account should be assigned to only one connection. A connection can have multiple accounts assigned but not vice versa.

- 1. Select Accounts on the navigation pane and select the account in the data grid.
- 2. Select the **Connections** tab.
- 3. Click +Add and select the required connection.

| LME MTA/ LME MTA - Base TTT LME MTA - Base TTT LME MTA - Base TTT LME connections are also assigned to sub-accounts Cancel Select | R Select Connections | to laudation Disabled by | × | Order Limit | Trading D |
|---|---|--------------------------|---|-------------|-----------|
| LME MTA - Base TTT LME If checked, connections are also assigned to sub-accounts Cancel | Re LME MTA | | | | |
| If checked, connections are also assigned to sub-accounts Cancel Select | LME MTA - Base TTT | LME | | | |
| | If checked, connections are also assigned to sub-accounts | Cancel Selec | t | | |

4. Click Save Changes.

Note: If a Connection is added to the parent account, it is inherited across all child accounts.

4.6 Step 6: Order Tag Default and Profile Creation

The Order Tag Default management allows Member Admins to view and configure unique order tag default parameters. Users can then apply these tags to all orders based on the key fields populated during OTD creation:

- Profile
- Algo Type (out of scope)
- Account, User
- Exchange
- Product Group

- Product Type
- Product.

When creating a profile for LME, all user and account configurable fields are displayed and can be configured at the same time.

- 1. Select **More** on the navigation pane.
- 2. Select Order Tag Defaults followed by OTD List.

|) Trade ADL Monitor Setup | Score Inbox LMEptrm | | | | | | UAT Certification + | 🛛 Support 🖀 🕫 helena.duzniek_mtb3 🕞 Log Os |
|--|---|---------------------------|--------|---------------------------------|------------------------|-----------------|---------------------|---|
| Lusers | + New Order Tag Default Q, Filter OTD's | Copy C Bulk Copy X Delete | | | | | | Orid Options |
| 0 (| Profile | Account | | User | Exchange | Asset Class | | |
| Accounts | [Select a Profile] | [Select an Account] | • | [Select a User] - | [Select an Exchange] - | [Select an Asse | t Class] 🗸 | |
| Limits | Value Search Fields Value | | | | | | | |
| Connections | [Fields for Value Search] • Text | (optional) |] Hide | a fields with restricted values | | | | |
| Algos | Reset Search | | | | | | | |
| Background Tasks | | | | | | | | Show fields with blank values |
| | | | | | | | * Mu | t filter by at least exchange to see blank order tag defaults |
| Company Settings • | | | | User Exchange Produ | | | | |
| | | | | Select Filters | | | | |
| Reports | | | | | | | | |
| | | | | | | | | |
| Less • | | | | | | | | |
| Secondary Acct Map | | | | | | | | |
| Order Tag Defaults * | | | | *** | | | | Total Rows Displayed: 0 |
| Ø OTD List | | | | | | | | |
| OTD Verification | | | | | | | | |
| 🖴 Profiles | | | | | | | | |
| 🛷 Trader IDs | | | | | | | | |
| 🖨 FIX Rulesets | | | | | | | | |
| E FIX Sessions | | | | | | | | |
| 🔮 User Groups | | | | | | | | |
| 🔮 Risk Groups | | | | | | | | |
| A Organizations | | | | | | | | |
| ≓ Authorized Traders | | | | | | | | |
| ≓ Counterparties | | | | | | | | |
| Change Log | | | | | | | | |
| Change Log | | | | | | | | |

3. Click + New Order Tag Default.

| | | | New Order Tag Default | 5) | |
|---|-----------------------------------|------------------|-----------------------------------|---------------|--------------|
| Order Tag Defaults | | | | | |
| Profile | <default></default> | | • | | |
| Algo Type: | * | | ÷ | | |
| Algo Name: | | | + | | |
| Account | * | | | | |
| User | * | | • | | |
| Exchange | Select an Exchange | | • | | |
| Exchange Product Group | * | | | | |
| Asset Class | * | | ÷ | | |
| Product Type | * | | | | |
| Product | | | Select a Produc | | |
| lease make selections to t Fields D(s) <i>Field</i> = | he following in order to view OTD | fields: Exchange | Cilent Can Override? Restrictions | What Changed? | _ |
| 4 | | | | | |
| ave Changes Cansel | | | | | Save and Add |

4. Complete the following fields:

| Field | Description |
|------------------|---|
| Profile | Select the Profile name available in the drop down. Selecting <add new=""> in the drop-down will not allow the OTD Sharing functionality available for Member Admins. Each profile is a set of order tag defaults. Company Member Admins can share OTD profiles created by different Member Admins.</add> |
| Algo Type | Leave the field populated with default value i.e. "*" |
| | Note: Algo Type is not applicable to LME users |
| Algo Name | Leave the field populated with default value i.e. "*" |
| | Note: Algo Type is not applicable to LME users |
| Account | Select an account |
| | All accounts available in the company are displayed. |
| User | Select Trading User |
| | All users who accepted an "invitation" to your company are listed. Users shared with your company are not listed. |
| Exchange | Select 'LME_NTP' |
| | This field populates automatically if a specific product is selected in the Product field. |
| Exchange Product | This is defaulted to "*" by Exchange |
| Group | The list of product groups varies by exchange. The default setting is "*" for all product groups. This field populates automatically if a specific product is selected in the Product field. |
| Asset Class | Not applicable to LME users |
| Product Type | Select Product Type e.g. Futures |
| Product | Select Product e.g. "*" for all products |
| | When a product is selected, the product name is displayed as well as an option to select "All" products. |

5. In the Fields section, select the fields to be added to the profile and populate with values:

| | | | | | Now Order Ta | Dofault/s) | |
|--|---|---|----------------|--|------------------------------|------------------------------|---------------|
| | | | | | New Order 12 | ig Default(s) | |
| | | | | | | | |
| faults | | | | | | | |
| Profile | TEST | | | | | • | |
| Ales Trees | | | | | | | |
| Algo type. | | | | | | | |
| Algo Name: | | | | | | * | |
| Account | TEST - EUR | OPE | | | | - | |
| | TECT CUDO | | | | | | |
| User | TEST_EORC | DPE_TRADER | | | | | |
| Exchange | LME | | | | | • | |
| Exchange Product Group | * | | | | | | |
| | 140 | | | | | | |
| Asset Class | | | | | | * | |
| | | | | | | - | |
| Product Type | | | | | | | |
| Product Type Product | * | | | | Sele | et a Product | |
| Product Type Product | * | | | | Sele | ect a Product | |
| Product Type Product | * | | | | Sele | ct a Product | |
| Product Type Product | * | | | | Sele | et a Product | |
| Product Type Product | * | Value : | Apply to Sub A | ccounts? Lock Sub Accounts? | Cilent Can Override? | Restrictions | What Changed? |
| Product Type Product | * | Value Select a Value | Apply to Sub A | Lock Sub Accounts? | Cilent Can Override? | Restrictions | What Changed? |
| Product Type Product Ids Pretur * Account Type* Client Account Client Account | * | Value Select a Value | Apply to Sub A | Lock Sub Accounts? | Sele Cilent Can Override? | Restrictions | What Changed? |
| Product Type Product // Preduct // Preduct // Preduct // Client Country Client ID | * | Value Selecta Value | Apply to Sub A | Lock Sub Accounts? | Sele Client Can Override? | Restrictions | What Changed? |
| Product Type Product P | * | Value Select a Value | Apply to Sub A | ccounts ⁷ Lock Sub Accounts? | Sele Cilent Can Override? | et a Product Restrictions | What Changed? |
| Product Type Product Adds Filely a Clearing Account Client Country Client ID Client ID Client ID Client ID Type | • | Value Selecta Value Selecta Value | Apply to Sub A | ccounts/ Lock Sub Accounts? | Cilent Can Override? | Restrictions | What Changed? |
| Product Type Product Nds Pieter - Account Type* Clearing Account Client Country Client D (House) Client D Type Comodity Derival | * etive Indicator | Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | ccounts? Lock Sub Accounts? | Sole | Restrictions | What Changed? |
| Product Type Product Nds Product Nds Product Produc | * ative Indicator | Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | Lecounts ⁷ Lock Sub Accounts ⁷ | Sele | Restrictions | What Changed? |
| Product Type Product Adds Product Adds Account Type* Clearing Account Clear Country Clear D Clear D (House) Clear D (House) Clear D (House) Clear D (House) Clear C (House) Clear C (House) Clear C (House) | * * stive indicator : anding instruct | Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | ccounts Lock Sub Accounts? | Sale | Restrictions | What Changed? |
| Product Type Product Ids Part - Account Type* Clearing Account Clearing Account Clearing Account Clearing D (Clearing Clearing) Clearing D (Clearing D) Clearing D (Clearing D) Clearing Account Clearing Account Account Account Account Clearing Account Accoun | * stve indicator : andling instruct | Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | ccounts? Lock Sub Accounts? | Sale | Restrictions | What Changed? |
| Product Type Product | * * | Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | ccounts Lock Sub Accounts? | Sale | Restrictions | What Changes? |
| Product Type Product | * * style Indicator : andling Instruct ccess ccess ccens | Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | ccounts Lock Sub Accounts? | Sale | Restrictions | What Changed? |
| Product Type Product | * * the Indicator coss coss country ID | Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | Accounts/ | Sale | Restrictions | What Changed? |
| Product Type Product Idea 7 Field - Clearing Account Clearing Account Clearing Account Clearing Account Clearing Account Clearing Account Clearing Account Clearing Account Clearing Account Customer Account Direct Electronic Ac Electronic Acto Electronic Acto Bisectron Decision | * tive indicator inding instruct cosss in Country in D in D | Value Select a Value Select a Value Select a Value Select a Value Select a Value | Apply to Sub A | LCCOUNTY LCCK SUb Account? | Sale | Restrictions | What Changes? |
| Product Type Product | * stive indicator : andling instruct ccess : Country : D : Cualifier | Value Selecta Value Selecta Value Selecta Value Selecta Value Selecta Value | Apply to Sub A | | Sale | Restrictions | What Changed? |

Refer to <u>https://library.tradingtechnologies.com/user-setup/lme-ntp-adding-an-account.html</u> and <u>https://library.tradingtechnologies.com/user-setup/lme-ntp-configuring-user-access.html</u> for more information on the user and account fields. See below for the list of mandatory fields required for order entry.

4.6.1 Mandatory User/Account Fields

Member Admins are responsible for populating the following mandatory order tag default parameters to enable successful trade bookings in LMEtrader:

| Field Name | Field Format |
|--------------------------------|----------------------|
| Account Type | Select from dropdown |
| Broker Client ID | String (<=16) |
| Direct Electronic Access | Select from dropdown |
| Execution Decision ID | Int (8 bytes) |
| Order Capacity | Select from dropdown |
| Commodity Derivative Indicator | Select from dropdown |
| Order Origination Trader | String (<=40) |

5 LMEptrm Member Risk Admin Setup

LMEptrm Risk Users will still be managed by LME Trading Operations under the LME Company.

There will be an interim setup for LMEptrm from Go-Live until a specified time targeted for Summer 2025 in which LMEptrm will be configured with one LME Company. Member companies will be configured as a subaccount, as configured in LMEtrader v9. Exchange Admins at the LME will be setting up Member Risk Admin Users.

This will have no impact on Member Risk Admin ability to access LMEptrm and set limits as required. The only limitation will be that Member Risk Admins will only be able to log into the LME Company with the email used and will not be able to use the same email to log into LMEtrader to look at user-based risk settings or account settings. The Company Member Admin in the new Member Company in LMEtrader will be able to set Broker Client ID in account settings/OTDs as required. These values will need to be communicated to the Company Member Admin by the Member Risk Admin, as neither will have access to each other's Company.

5.1 Member Risk Admin (RA) Setup

Member Risk Admin email address should be sent to LME Trading Operations via the LMEprtm New User Form.

Trading Operations will perform the following steps:

- 1. Create the User in the LME Company.
- 2. Ensure the User is added to the Account representing the correct Member Firm. No additional information will be needed, as the account parameters do not need to be populated.
- 3. Create the Connection, using the LMEptrm credentials (CompID, password and contact email) requested by the Member and add the account to the connection.

Member Risk Admins will then perform the following steps:

- 4. Create Risk Groups and End Clients as needed and set the required limits.
- 5. Communicate the End Client names to a Company Member Admin in the LMEtrader Member Company so End Clients can be mapped to Broker Client ID.

The diagram below shows how LMEtrader and LMEptrm configurations will be different for the Go-Live and interim period:





| Exchange Admin (TOps) 'Full Admin' Access Level Permissions Tab set to 'Admin' | |
|--|---|
| | Member Risk Admin 'User' Access Level Permissions Tab set to 'None' Account Admin Tab used for permissions |

Appendix A: Permissions per User Role

A.1 LMEtrader Company Member Admin (MA)

- 1. On the Settings tab in the Status section, select Trade Mode as TT Standard (View Only).
- 2. On the **Permissions** tab, set user permissions.

| Section | Description |
|----------------------|---|
| Admin Permissions | Select Admin (Access Level = Full Admin) |
| Trade Permissions | Select Disable Trading & Request for Quote |
| Algo Permissions | Deselect Requires Permission to Run Own Algos & Algo Approver |
| TT SCORE Permissions | Not in scope for v10 |
| KRM22 Permissions | Not in scope for v10 |
| LMEptrm Permissions | Set to Not Set |

A.2 LMEtrader Trading Admin (TA)

- 1. On the Settings tab in the Status section, select Trade Mode as TT Standard (View Only).
- 2. On the **Permissions** tab, set user permissions.

| Settings | Description |
|----------------------|---|
| Admin Permissions | Select Admin (Access Level = Full Admin) |
| Trade Permissions | Select Disable Trading |
| Algo Permissions | Deselect Requires Permission to Run Own Algos & Algo Approver |
| TT SCORE Permissions | Not in scope for v10 |
| KRM22 Permissions | Not in scope for v10 |
| LMEptrm Permissions | Set to Not Set |

If more granular restrictions are needed for Trading Admins, the Account Administration settings can be used, see <u>https://library.tradingtechnologies.com/user-setup/aa-adding-an-account-administrator.html</u> for more information.

A.3 Trading User (GT)

- 1. On the Settings tab in the **Status** section, select Trade Mode as TT Standard.
- 2. On the **Permissions** tab, set user permissions.

| Section | Description |
|----------------------|---|
| Admin Permissions | Select None |
| Trade Permissions | Deselect Disable Trading |
| Algo Permissions | Deselect Requires Permission to Run Own Algos & Algo Approver |
| TT SCORE Permissions | Not in scope for v10 |
| KRM22 Permissions | Not in scope for v10 |
| LMEptrm Permissions | Set to Not Set |

3. On the **Exchanges** tab, select LME_NTP from dropdown. In **Subscriber Market Data** tab, select Allow and select 1 Session.

| Section | Description |
|------------------------|--|
| Subscriber Market Data | Settings Permissions Accounts Exchanges Limits Access Lines Account Administration Change Logs |
| | LME_NTP Subscriber Market Data Order Routing |
| | Subscriber Market Data Permissions Allow Deny Sessions |
| | All Market Data |

- 4. Click Save Changes.
- 5. Select Accounts on the navigation pane and select the account in the data grid.
- 6. On the **Users** tab, configure Order Permissions as shown below:

| Order Permissions | |
|--|--|
| Undete positions (a.g. create manual fills) Opping A | |
| | |
| | |
| | |
| | |
| Only Allow Price Improvements on Child Orders (based on the parent limit price) | |
| Manage Staged Orders without Claiming | |
| Manage Own Staged Orders | |
| Manage Orders Staged by Others | |
| Unclaim Orders Owned by Others | |
| Modify clearing account on working orders (ASX only) Denied X | |
| Modify clearing account on fills | |
| ✓ Delete Orders | |
| Modify Orders | |
| Submit Native Orders | |
| Will allow user to directly submit exchange-supported order types, with the exception of Market orders | |
| Market | |
| GTC / GTDate | |
| Mobile Denied X | |
| Autospreader Denied X | |
| Aggregator Denied X | |
| TT Algo SDK Denied X | |
| ADL Denied X | |
| ADL Algo Approval Required Denied X | |
| TT Synthetic Order Types | |
| | |
| TT Stop Denied X | |
| TT If-Touched Denied X | |
| TT Trailing Limit Denied X | |
| TT With-A-Tick Denied X | |
| TT OCO Denied X | |
| TT Bracket Denied X | |
| TT iceberg | |
| TT Order By Volatility Danied X | |
| TT Autohedger Denied X | |
| TT Time Sliced / TT Time Duration Danied X | |
| TT Volume Sliced / TT Volume Duration Danied × | |
| TT Retry Denied X | |
| TT TWAP Denied X | |
| Bid/Ask Theo Denied X | |
| BrackeTT Denied X | |
| Conditional Denied X | |
| Direct Entry Denied X | |
| Market Base Denied X | |
| MinVol Denied × | |
| OCO (OMA) Denied X | |
| OCO 2 (OMA) Denied X | |
| Reference Market Denied ^x | |
| Single Theo Denied X | |
| TT Multi-Level Bracket Denied X | |
| TT Sniper Denied X | |
| ☐ With A Tick (OMA) Denied [×] | |
| TT Premium Order Types* | |
| TT TWAP+ Denied X | |
| TTVWAP+ Denied X | |
| TT POV Denied X | |
| TT Scale POV Denied X | |
| TT Brisk Denied × | |
| TT Close Denied X | |
| | |
| TT Splicer Denied X | |
| | |

7. Click Save Changes.

A.4 Trading Supervisor (GS)

- 1. On the Settings tab in the **Status** section, select Trade Mode as TT Standard.
- 2. On the **Permissions** tab, set user permissions.

| Section | Description |
|----------------------|---|
| Admin Permissions | Select None |
| Trade Permissions | Deselect Disable Trading |
| Algo Permissions | Deselect Requires Permission to Run Own Algos & Algo Approver |
| TT SCORE Permissions | Not in scope for v10 |
| KRM22 Permissions | Not in scope for v10 |
| LMEptrm Permissions | Set to Not Set |

3. On the **Exchanges** tab, select LME_NTP from dropdown. In **Subscriber Market Data** tab, select Allow and select 1 Session.

| Section | Description |
|------------------------|--|
| Subscriber Market Data | Settings Permissions Accounts Exchanges Limits Access Lines Account Administration Change Logs |
| | LME_NTP Subscriber Market Data Order Routing |
| | Subscriber Market Data Permissions Allow Deny Sessions |
| | All Market Data |

- 4. Click Save Changes.
- 5. Select Accounts on the navigation pane and select the account in the data grid.
- 6. On the **Users** tab, configure Order Permissions as shown below:

| Order Permissions |
|--|
| |
| Update positions (e.g., create manual fills) |
| Contirm Fills |
| Ubmit Block Orders Denied * |
| Ubmit Cross Orders Denied A |
| Ubmit Staged Orders |
| Only Allow Price Improvements on Child Orders (based on the parent limit price) |
| Manage Staged Orders without Claiming |
| Manage Own Staged Orders |
| Manage Orders Staged by Others |
| Unclaim Orders Owned by Others |
| ☐ Modify clearing account on working orders (ASX only) <i>Denied</i> ^X |
| Modify clearing account on fills |
| Delete Orders |
| Modify Orders |
| Submit Native Orders |
| Will allow user to directly submit exchange-supported order types, with the exception of Market orders |
| Market Denied X |
| GTC / GTDate |
| |
| |
| |
| TT Algo SDK $\mathcal{D}_{enied}^{\chi}$ |
| \square ADL period $^{\chi}$ |
| |
| |
| |
| TT Stop Denied X |
| |
| TT Trailing Limit Denied X |
| TT With-A-Tick Penied X |
| |
| TT Bracket Denied X |
| |
| TT Order By Volatility <i>Denied</i> ^X |
| TT Autohedger Denied X |
| TT Time Sliced / TT Time Duration <i>Denied</i> ^X |
| TT Volume Sliced / TT Volume Duration Denied X |
| TT Retry Denied X |
| TT TWAP Denied X |
| Bid/Ask Theo <i>Denied</i> ^X |
| BrackeTT Denied X |
| Conditional Denied X |
| Direct Entry Denied X |
| Market Base Denied X |
| MinVol Denied X |
| OCO (OMA) Denied X |
| OCO 2 (OMA) Denied X |
| Reference Market Denied X |
| Single Theo Denied X |
| TT Multi-Level Bracket Denied X |
| TT Sniper Denied X |
| With A Tick (OMA) Denied X |
| TT Premium Order Types* |
| TT TWAP+ Denied X |
| TT VWAP+ Denied X |
| |
| TT Scale POV Denied X |
| TT Brisk <i>Denied</i> ^X |
| TT Close Denied $^{\chi}$ |
| TT Prowler Denied X |
| TT Splicer Denied X |

* Permission has been restricted by the account or any parent account -

7. Click Save Changes.

A.5 Backoffice User (GB)

- 1. On the Settings tab in the **Status** section, select Trade Mode as TT Standard (View Only).
- 2. On the **Permissions** tab, set user permissions:

| Section | Description |
|----------------------|---|
| Admin Permissions | Select None |
| Trade Permissions | Select Disable Trading |
| Algo Permissions | Deselect Requires Permission to Run Own Algos & Algo Approver |
| TT SCORE Permissions | Not in scope for v10 |
| KRM22 Permissions | Not in scope for v10 |
| LMEptrm Permissions | Set to Not Set |

3. On the **Exchanges** tab, select LME_NTP from dropdown. In **Subscriber Market Data** tab, select Allow and select 1 Session.

| Section | Description |
|------------------------|--|
| Subscriber Market Data | Settings Permissions Accounts Exchanges Limits Access Lines Account Administration Change Logs LME_NTP • Subscriber Market Data Order Routing |
| | Subscriber Market Data Permissions Allow Deny Sessions All Market Data Image: Colspan="2">Image: Colspan="2" Image: C |

4. Click Save Changes.