

LMEtrader - Functional Guide LMEselect v9

Please respond to:

Trading Operations

tradingoperations@lme.com

+44 (0)207 113 8200

THE LONDON METAL EXCHANGE

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Document History

Version	Date	Change Description	
0.1	2 nd Feb 2021	Initial Draft – created for LMEselect v9 and based on LMEtrader – Functional Guide v0.4, dated 2 nd Sep20 • Tailor for LMEselect v9 only • Include 12 new widgets added to SOW	
0.2	1 st Mar 2021	 Updated following business review, to include: Removal of references to Options in the Overview section which are out of scope for v9 	
0.3	14 th Jan 2022	 Updated to include: Account Admin functional description Final agreement regarding Merged Order Book behaviour Preparation for externalisation 	
0.4	24 th Jan 2022	 Updated following final team review, to include: Terminology definition Merge 3.2.1 and 3.2.1.1 into a single section and condense the wording Risk Groups wording elaborated Clarification regarding product/contract scope Added a section regarding Workspace Import/Export 	
0.5	8 th Mar 2022	Updated to include links to TT Help Library relevant to Sweep Average Pricing and managing the Cash Balance	
0.6	14 th Mar 2022	Updated by Marketing team to ensure document branding	
0.7	1 st Apr 2022	Externalisation with technical author	
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Preface

LMEtrader is the new LME Trading GUI powered by Trading Technologies (TT).

This document provides a guide to the functionality available to users of LMEtrader connecting to the existing LMEselect v9 trading platform.

Whilst aiming to be comprehensive in scope, this guide is a lightweight overview that does not provide full details of each function. References to the TT Help Library are made throughout which offers more descriptive text, screenshots and videos.

Important: LMEtrader is a bespoke configuration of the TT software and does not support all functionality offered by TT through their standard and advanced GUIs. This <u>must</u> be considered when referencing the TT Help Library.

Terminology

Due to the appearance of the LMEtrader displays and the references made into the TT Help Library, this document standardises on those terms used by TT.

It must be noted that these terms differ to the standard terminology adopted across the LME.

Term	Description
Exchange	The <u>trading venue</u> - always 'LME '.
Product	The <u>underlying metal</u> on which each derivative is listed. Examples include ' AH ', ' CA ', ' NI '.
Туре	Type will be either 'Future' or 'Spread'
Contract	The <u>individual instrument</u> (order book) to be traded. Examples include ' AH MAY23 ', ' CA TOM-NEXT ', and 'NI C-MAY23 '.
Instrument	See <u>Contract</u>

The table below highlights the important terms used within this document.

Target Audience

The document is aimed at all users of LMEtrader in conjunction with the TT Help Library.

1 Introduction

LMEtrader is a specially customised version of the TT Standard product for the LME.

As a customisation of an existing TT product, LMEtrader is built on a mature code base, offering a stable GUI that is familiar to a significant number of existing market participants.

All customisations were guided by the overarching principle that it must provide a 'Low Barrier Entry Point' to the LME electronic trading platform. Further, it must provide members and their clients with quick and easy access, via both browser based and mobile devices, to the entire LME product suite including all future product launches.

LMEtrader has been designed to support both LMEselect v9, the existing trading platform and LMEselect v10, the new trading platform.

This guide focuses on LMEtrader for LMEselect v9.

2 Overview

LMEtrader contains the functionality required to support an individual trading user's activity on the LME.

A set of easy to access trading tools is available allowing individual trading users to:

- view real-time and historical market data for the lifetime of a contract
- submit and manage LME Futures orders
- view orders and positions in real-time

Note: only Outright Futures and simple Calendar Spread Futures will be supported on the LMEselect v9 electronic trading platform.

An administration toolset is provided allowing member firm administrators to manage their trading account structure and their risk management function in addition to more general administrative tasks.

Refer to: https://library.tradingtechnologies.com/user-setup/aa-account-administrators-overview.html

2.1 Access

LMEtrader is built on a software-as-a-service (SaaS) framework requiring no client-side software.

Users are granted access on creation of a User Account following the completion of the LME onboarding process.

Users can connect via a browser using Google Chrome, Firefox or Microsoft Edge, or via a mobile app over iOS and Android.

Refer to: https://library.tradingtechnologies.com/trade/ttp-tt-platform-overview.html

2.2 User Roles

LMEtrader is designed to support two primary user roles:

- Trading Users
- Administrator Users

Note: users of LMEtrader include individual Traders, Member Administrators, Risk Managers and Exchange Operations Managers, each of whom must exist in the system and be identifiable via their own individual and unique user account.

Refer to: https://library.tradingtechnologies.com/user-setup/gs-user-roles.html

2.3 Workspaces

LMEtrader supports the creation and sharing of common, persisted workspaces that are made available at each log on.

A single workspace can be created for all trading needs or multiple workspaces can be created with windows and widgets suited to more specific purposes.

Each workspace can comprise one or more windows containing those widgets required to suit a specific preference or function.



Note: whilst each Workspace can have multiple Windows, it is only possible to view a single window at any one time.

Refer to: https://library.tradingtechnologies.com/trade/win-workspaces-overview.html

2.3.1 Workspace Sharing

LMEtrader supports the saving and sharing of workspaces via the Import/ Export function.

A chosen workspace can be exported to a single export file, saved to a common file share location then imported into a workspace by other users in the organisation.

Refer to: https://library.tradingtechnologies.com/trade/ttw-importing-and-exporting-workspaces.html

2.4 Excel Integration

LMEtrader supports communications with Microsoft Excel spreadsheets in two ways:

- Excel Linking incorporate spreadsheet calculations into the LMEtrader displays
- Excel RTD display live LMEtrader data in Excel spreadsheets

Refer to: https://library.tradingtechnologies.com/trade/xl-excel-integration-with-tt-overview.html

2.4.1 Excel Linking

Link Microsoft Excel spreadsheets to LMEtrader widgets allowing spreadsheet data to be leveraged.

Spreadsheets used to drive trading strategies can have the results of the spreadsheet calculations fed into LMEtrader with the widgets updating automatically when the spreadsheet calculations change.

Refer to: https://library.tradingtechnologies.com/trade/xl-excel-linking-overview.html

2.4.2 Excel RTD

Display live data via LMEtrader in an Excel spreadsheet.

Populate the cells of an Excel spreadsheet with market data for selected instruments which dynamically update in response to market activity.

Refer to: https://library.tradingtechnologies.com/trade/xl-excel-and-the-tt-rtd-server-overview.html

3 Individual Trading Users

The following sections provide a brief description of the functionality available to individual trading users of LMEtrader.

Note: unless stated otherwise, only a <u>single instance</u> of each widget referenced below can be displayed at any one time across all windows within an LMEtrader Workspace.

3.1 Viewing Market Data

3.1.1 Market Grid

View Market Data for one or more contracts simultaneously in a single market grid or via **<u>multiple</u> <u>instances</u>** of the market grid for different contracts.

View Market Depth for each contract by expanding the market grid then submit trades quickly by clicking the required price to trigger an Order Ticket or MD Trader display.

Refer to: https://library.tradingtechnologies.com/trade/mg-introduction-to-market-grid.html

3.1.2 Watchlist

Manage and monitor market data for selected contracts.

Create user-defined strategies via the Strategy Creation widget and "send" to Watchlist before submitting to the exchange.

View a strategy then send it to the Strategy Creation widget to modify and submit to the exchange.

Submit orders to the exchange directly from the Watchlist.

Refer to: https://library.tradingtechnologies.com/trade/wl-watchlist-overview.html

3.1.3 Spread Matrix

View market data for multiple outright contracts and the spreads created between them.

View market data and quickly enter orders for all contract expiries in a product via a single screen.

View and trade all outrights and custom carries for a single product.

View market data for contracts in two different products and their associated spreads.

Refer to: https://library.tradingtechnologies.com/trade/sm-overview.html

3.1.4 Time & Sales

View time and sales information for one or more contracts, simultaneously, via a single Time & Sales widget or via **multiple instances** of the Time & Sales widget for different contracts.

Real-time and historical trade details, including date, time, price and quantity, are displayed for the selected contracts.

Note: historical data is available for each contract's lifetime.

Refer to: https://library.tradingtechnologies.com/trade/ts-time-and-sales-overview.html



3.1.5 Depth

View Level 2 Aggregated Top 15 depth for a single contract.

Refer to: https://library.tradingtechnologies.com/trade/dep-depth-widget-overview.html

3.1.6 Charts

View charts and analytics blended from historical time series data and continuous real-time market data updates.

All displayed data matches that used by the other market data widgets, ensuring consistency throughout.

Refer to: https://library.tradingtechnologies.com/trade/chrt-charts-overview.html

3.2 Creating Market Data

3.2.1 Strategy Creation

Create user defined custom carries and broken date spreads according to LME rules.

Use the Calendar Picker to easily identify and select each required value characterising the strategy.

Submit orders directly to the exchange immediately following successful strategy creation.

Note: strategies are created and validated locally until an order is submitted, at which point LMEselect v9 is triggered to create the contract and broadcast it over the LME market data feed.

Refer to: <u>https://library.tradingtechnologies.com/trade/sc-strategy-creation-overview.html</u> https://library.tradingtechnologies.com/trade/sc-lme-strategy-creation.html

3.3 Order Entry

3.3.1 MD Trader

Submit orders for a particular contract in a single-click whilst displaying market depth against a static, vertical price axis.

The static price display offers a visual sense of market movement over a period of time.

Refer to: https://library.tradingtechnologies.com/trade/mdt-overview.html

3.3.2 Order Ticket

Submit orders for a particular contract by selecting price, quantity, trading account, order type and time-in-force using Order Ticket from the Market Grid, Time & Sales and Positions widgets.

Refer to: https://library.tradingtechnologies.com/trade/ot-order-ticket-overview.html



3.4 Order Management

3.4.1 Order Book

View working order status, cancel orders, modify order price, modify order quantity, place orders on hold and retrieve the historical activity of an order.

Refer to: https://library.tradingtechnologies.com/trade/ot-order-ticket-overview.html

3.4.2 Fills

View parent, child and administrative order fills from current and previous sessions.

Fills are displayed for the last 7 days and sorted in reverse chronological order so the most recent appear at the top of the list.

Refer to: https://library.tradingtechnologies.com/trade/fls-overview.html

3.4.3 Positions

View positions (both SOD and current day transactions) plus the P/L across all accounts.

Customise how the grouping and ordering of positions with a simple click to access **Settings** from the context menu.

Refer to: <u>https://library.tradingtechnologies.com/trade/pos-positions-overview.html</u> <u>https://library.tradingtechnologies.com/trade/pos-how-pl-is-calculated.html</u>

3.4.4 Orders & Fills

Easily monitor and manage working orders and fills via a single widget that combines the features and functionality of the Order Book, Fills and Positions widget.

Show / hide the Fills and Positions panes as required.

Refer to: https://library.tradingtechnologies.com/trade/of-orders-and-fills-overview.html

3.4.5 Audit Trail

View details of all order activity, exchange announcements and error messages.

Details are gathered and displayed in real-time and stored permanently, supporting the retrieval of the entire activity history.

Auditing is always on regardless of users being logged on.

Refer to: https://library.tradingtechnologies.com/trade/at-audit-trail-overview.html

3.4.6 Account List

Manage a long list of pre-defined accounts (see section 4) and tailor a workspace for trading needs.

- Quickly seed order entry screens.
- Filter order and fill management widgets with specific accounts.

Refer to: https://library.tradingtechnologies.com/trade/al-account-list-overview.html



3.4.7 Trader Analytics

View a comprehensive statistics report to help analyse the current day's trades plus historical trade data.

Pinpoint an exact contract, account and/or time frame for analysis.

Gauge trader performance over a week, a month or particular time of day as well as during specific market conditions.

Analyse performance data to help:

- Distinguish between winning and losing trade characteristics
- View statistics on all trades, long trades and short trades
- Pinpoint trading weaknesses and strengths
- Evaluate vital performance statistics
- Find the most profitable times of day for trading

Refer to: https://library.tradingtechnologies.com/trade/ta-trader-analytics-overview.html

3.5 LME Specific Functionality

3.5.1 Merged Order Books

The LME prompt date structure for futures is such that two different contracts can share the same actual prompt date on specific trading dates. For example, on the 3rd Wednesday of a month, a 3M rolling prompt will have the same prompt date as the static monthly prompt.

On the trading date that the contracts share the same prompt date, the order books for each contract will be <u>merged</u> on the trading platform.

LMEtrader supports trading in <u>each</u> contract subjected to a Merged Order Book scenario, resulting in all contracts being displayed and orders accepted into each, for example:

Day1 – 2nd Feb 2021:

3M-Dec21 where **3M** rolling prompt equates to **2May21**

3May21-Dec21

Each of the two carries are displayed on LMEtrader and are tradable in their own right.

Day2 – 3rd Feb 2021 – Merged Order Book:

3M-Dec21 where **3M** rolling prompt equates to **3May21**

3May21-Dec21

Despite sharing the same underlying characteristics and therefore considered <u>merged</u>, each of the two carries are displayed on LMEtrader and are tradable in their own right. In such circumstances, the market data details for each of the carries will match.

Day3 – 4th Feb 2021:

where **3M** rolling prompt equates to **4May21**

3May21-Dec21

3M-Dec21

Each of the two carries are displayed on LMEtrader and are tradable in their own right.



3.5.2 Daily Prompt Dates

Trade all LME daily prompt dates as either outrights or custom carries.

3.5.3 Sweep Average Pricing

Select one or more filled orders and see a simple average price for the selection including the details of the exact price levels for each completed order.

Refer to: <u>https://library.tradingtechnologies.com/trade/of-orders-and-fills-overview.html</u> <u>https://library.tradingtechnologies.com/trade/fls-views.html#summary</u>

3.5.4 Implied Trading

A distinction between direct prices and implied prices is **not** supported by LMEtrader for LMEselect v9.

Whilst implied trading is fully supported, there is currently no indicator available to allow LMEtrader to distinguish between implied orders and direct orders, therefore, implied orders are merged with direct orders at each price level and displayed as such.

3.5.5 Deactivate & Reactivate Orders

De-activate resting orders by pulling them from the order book and storing within LMEtrader.

View Inactive Orders and resubmit at any point with a single click.

Refer to: https://library.tradingtechnologies.com/trade/ob-placing-orders-on-hold.html

3.5.6 User Logoff / Disconnect

LMEtrader, as a server-based solution, manages all orders within a server core.

Upon disconnection from LMEtrader, client orders are managed on the server.

Note: on a controlled disconnect, i.e. User Logoff, the user is reminded of any active orders and asked to confirm log off.

4 Member Account Administrator Functionality

As a Member Account Administrator of LMEtrader, manage the Trading, Regulatory and Risk administrative functions for your member firm

Note: user accounts configured for Member Account Administrators do <u>not</u> have trading permissions. If a Member Administrator requires the ability to trade on the LME, a trading user account is required <u>in addition</u>.

Refer to: https://library.tradingtechnologies.com/user-setup/aa-account-administrators-overview.html

4.1 Trading Administration

Fully manage a member firm's trading function.

4.1.1 Managing Trade Accounts

Create and manage the trade and sub-account structure requirements of a member firm.

Send account details to the exchange trading platform to assist with downstream order and trade identification.

Ensure accounts are configured with the necessary details to adhere to the regulatory requirements of the exchange.

Note: accounts are required for order routing purposes when using the **Trade** application on LMEtrader and may represent an individual or a client company of a broker firm or clearing member.

Refer to: https://library.tradingtechnologies.com/user-setup/ac-accounts-overview.html

4.1.1.1 Creating Trade Accounts

Manage trade accounts by creating, naming and configuring their settings according to account type and order routing purposes.

Clone existing accounts to create duplicates and delete or move accounts as member requirements change.

Refer to: https://library.tradingtechnologies.com/user-setup/ac-creating-a-new-account.html

4.1.1.2 Assigning Users to Trade Accounts

Manage the assignment of individual user accounts to order routing (trade) accounts, by adding existing users to accounts and moving existing users between accounts.

Manage the permissions/restrictions of an individual user on each specific account to which it has been assigned.

Refer to: https://library.tradingtechnologies.com/user-setup/ac-assigning-a-user-to-an-account.html

4.1.1.3 Assigning Trade Accounts to Exchange Connections

Manage the assignment of order routing (trade) accounts to existing exchange trading platform connections.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-administering-account-</u> <u>connections.html</u>



4.1.1.4 Managing Trade Account Restrictions

Manage the restrictions imposed on all users of a particular trade account, for example, whether orders can be modified, positions manually updated or specific order types prevented.

Refer to: https://library.tradingtechnologies.com/user-setup/ac-setting-account-restrictions.html

4.1.1.5 Change Audit Logs

Access a comprehensive audit trail by viewing and downloading all changes made to each of the trade accounts or user accounts within a member firm.

Refer to:

https://library.tradingtechnologies.com/user-setup/ac-viewing-an-account-detailed-change-log.html https://library.tradingtechnologies.com/user-setup/us-viewing-a-user-detailed-change-log.html

4.1.1.6 Order Profiles

Create order default settings that seed order entry widgets on LMEtrader.

Note: trading users can define and apply their own custom order profiles and local default settings or can use those defined by the Member Account Administrator.

Refer to: https://library.tradingtechnologies.com/trade/op-order-profiles-overview.html

4.1.1.6.1 Order Tags

Define the key fields used to find a best match when selecting default order profiles for a user.

Configure profiles that individual trading users can apply to orders based on the best match of the key fields defined.

Note: Individual trading users can specify their own values at order entry time or can use the order profiles defined by the Member Account Administrator.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/us-order-tag-defaults.html</u>

4.1.1.7 User Groups

Create and manage groups of users and associate a subset of order routing accounts to each group.

Refer to: https://library.tradingtechnologies.com/user-setup/us-administering-user-groups.html

4.2 Regulatory Administration

Fully manage a member firm's regulatory obligations with respect to exchange order submissions and trading.

4.2.1 Assigning Regulatory Properties to Trade Accounts

Configure the LME specific account properties required for both exchange processing requirements (e.g. account code mappings and clearing instructions) and also regulatory requirements (e.g. MiFid identifiers, LEIs, Client Identifiers).

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-configuring-account-exchange-properties.html</u>

4.3 Risk Administration

Fully manage a member firm's risk function by setting risk limits for accounts and users, price and quantity limits for users, position and credit limits for accounts and defining actions to take when credit limits are exceeded or when orders cross in the same account.

Configure product-specific position limits, product-specific order size limits and exchange-specific margin limits per account.

Note: these limits apply to the account and all the sub-accounts in aggregate. Orders submitted with an account are checked against the limits of the account, as well as any limits on any parent accounts (i.e. risk is based on the combined positions and working orders of all accounts in the hierarchy).

Important: the LMEtrader risk administration function supported for the LMEselect v9 electronic trading platform is 'local' GUI side administration only. In other words, the configuration is applied within LMEtrader **prior to** exchange submission.

4.3.1 Risk Accounts

Create and manage 'local' risk accounts using the account hierarchy structure to facilitate the grouping of individual trading users according to perceived levels of risk.

Define risk limits across each of the risk account structures to limit the risk exposure of a group of individual trading users.

Define risk limits at any level in the hierarchy from 'member firm' level, through 'risk group' account level, 'end client' level to 'trading account level'.

By way of example, the structure below shows a 'risk group' account under member firm 'GCM' split to include three 'end client' accounts to which 'trading accounts' are assigned, thus 'grouping' all individual trading users assigned to trade on each trading account.

Risk limits as well as account restrictions can then be configured at the 'risk group' account level the 'end client' level or the 'trading account' level. These limits are then applied at the level configured and down through the sub-accounts, thus limiting the risk exposure of those individual trading users assigned to the trading accounts.



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4.3.2 Risk Limits

4.3.2.1 Managing Account Risk Limits

Enable or disable trade and/or risk account limit checks.

Define risk limits at trade and/or risk account level to add an extra level of pre-trade risk management.

Create product and instrument limit definitions specific to one or more trade or risk accounts.

Add a wide range of position limits for a parent and/or child trade account for a chosen product or instrument.

Add order size limits and number of order limits for a parent and/or child trade account for a chosen product or instrument.

Define market depth checks to control the number of price levels at which an order can be filled.

Define price constraints and price reasonability checks to control the price at which orders can be submitted.

Define margin percentage checks to specify a percentage above or below the margin that a trader must trade the product or instrument.

Refer to: https://library.tradingtechnologies.com/user-setup/ac-setting-account-position-limits.html

https://library.tradingtechnologies.com/user-setup/rl-account-position-limits.html

4.3.2.2 Managing Account Position Reset Settings

Define whether to reset position records at the start of each business day or create position records according to the previous exchange session.



Define whether rolling contracts roll into their underlying position or into their new rolling contract at the daily reset time.

Override position reset time to determine a specific reset time for an account.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-configuring-sod-settings-and-credit-limits.html</u>

4.3.2.3 Managing Account Credit Settings

Determine whether to apply credit limit checks to all orders.

Set a daily credit limit that a specified account can have during a given trading session.

Select the preferred method for calculating available credit.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-configuring-sod-settings-and-credit-</u> limits.html

4.3.2.4 Managing Account Credit Loss Adjustment Settings

Define whether to trigger an action if the available credit falls below a specified percentage.

Define the action to trigger if the available credit falls below a specified percentage:

- Disable Trading trading for the account and its sub-accounts is automatically disabled
- Cancel Working in addition to disabling trading, cancel all working orders.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-configuring-sod-settings-and-credit-limits.html</u> - see Configuring Credit Loss Adjustments and Account Liquidation

4.3.2.5 Managing the Cash Balance

Add or modify cash balance values to support Account Cash Balance uploads.

Refer to: <u>https://library.tradingtechnologies.com/user-setup/ac-configuring-sod-settings-and-credit-limits.html</u> - see Configuring Credit Loss Adjustments and Account Liquidation

Appendix

Document	Location	Contact
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