

LMEtrader - New Functionality and Key Differences





1 Overview

1.1 LMEtrader Key new functionality

- ✓ Web based GUI
- ✓ Fully customisable user layouts with the ability to save and share custom workspaces
- ✓ Charting functionality with advanced technical analysis capabilities
- ✓ MD trader ladder tool for quick order entry
- ✓ Ability to link widgets together for trading and analysis
- ✓ Alternative themes and the ability to edit the colours of various features
- ✓ Excel plug in

1.2 LMEtrader Key differences vs the existing LMEselect v9 Trading Client GUI¹

- For carry contracts, a contango price is displayed as negative number and backwardation price is displayed as positive number.
- LMEtrader will not support LME Options or trade-at-settlement ("TAS") functionality².
- The "Settle" column shows the previous day's Closing Prices. Values for carries are unadjusted therefore for any carry, that involves Cash or 3M the "Settle" value will be where it was valued the night before (not adjusted based on today's rolling prompt dates).
- The order entry ticket will not auto populate with last night's valuation for carries, and when creating new custom carries (not auto listed or created previously) a separate widget needs to be used.
- Trader users cannot modify all of the MifiD / LEI parameter in LMEtrader while placing the order.

1.3 Key differences vs TT full account

- LMEtrader can only be used for trading LME products (no access to other exchanges).
- LMEtrader will not support synthetic/complex order types, TT algo trading functionality or the auto spreader tool.
- LMEtrader only allows multiple widgets for "time and sales" and "market grid" components. All other widgets will only allow a single instance.

¹ See section 1 for a full detailed breakdown of the major differences including screenshots

² TAS contracts will be supported in LMEtrader with LMEselect v10 (new trading platform) go live, and LME Options (premium quoted) once launched in LMEselect v10.



2 LMEtrader Key differences vs LMEselect v9 GUI (detail)

| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|--------------------------------------|---|--------------------------------|
| Carry | Backwardation = b | Backwardation = + |
| Contango and Backwardation | Contango = c | Contango = - |
| Product Types | LMEselect supports | LMEtrader supports for v9 |
| | Options | Spreads |
| | • TAS | • Futures |
| | Spreads | Merged Order Books |
| | Futures | For v10, it will also support |
| | | Spreads |
| | | • Futures |
| | | • TAS |
| Trade Executions (all market) | Trade Ticker or within the Trade History search | Time & Sales Widget |
| | | Blue Color - Buy |
| | | Red Color – Sell |
| | | Note, colours are configurable |
| Amend - Uptick/Downtick orders | Order Depth Ladder \rightarrow Right click | Order Book Widget |



| Order Entry | Trading \rightarrow Enter Outright/Carry/Option Order | Orders can be place via linked/unlinked/floating Order Tickets or N | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|--|
| | 🔝 Enter Order — 🗆 🗙 | | | | | | | | |
| | Outright O Carry O Option O TAPO O TAS Outright O TAS Carry Contract | Order Ticket | | | | | | | |
| | Product None V Prompt Date 1: None V | Floating Order ticket can be accessed via Market Grid, Depth Spread Matrix widgets. Click on any market column inside (bid, as) | | | | | | | |
| | Price Quantity | bidqty, askqty) or position column when there is an open position | | | | | | | |
| | +1/4 +1 +5 +10 -1/4 -1 -5 -10 | Linked Order ticket can be accessed via Market Grid (Right click → Launch Linked), Unlike a floating order ticket, a linked Order Ticket | | | | | | | |
| | Iceberg Discretionary Open Qty +5 +20 +50 +100 0 -5 -20 -50 -100 0.000 -1/4 -1 -5 -10 | remains open after you place an order. Note : The yellow borde around the Order Ticket indicates that the ticket will not close whe | | | | | | | |
| | Scaling Stop Order | you place an order. | | | | | | | |
| | Incr +1/4 +1 Orders: □ Trigger +1/4 +1 +5 +10 0.00 ↓ -1/4 -1 2 ↓ 0.00 ↓ -1/4 -1 -5 -10 | 💶 LME AA 230922 MODY INC. EUROPE DESK 1 👘 🥝 🗕 🗙 | | | | | | | |
| | Valid | CERTIFICATION | | | | | | | |
| | Day ~ | 1 5 10 ^ <default> v</default> | | | | | | | |
| | Client | | | | | | | | |
| | Client ID *Sub Acc Client Account Code | | | | | | | | |
| | | Clear V Clearing Acct> | | | | | | | |
| | *Trading Capacity *Execution Decision Within Firm Client Branch Country DEAL | <invest decision=""> <exec decision=""> <client id=""> Limit 🔻</client></exec></invest> | | | | | | | |
| | Decision Maker Client Short Code | Day | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | Buy . | | | | | | | |
| | Commodity Derivative indicator | 🗌 Stage 🕶 🔁 | | | | | | | |
| | Optional Legal Entity Identifiers | Buy Sell CDI> | | | | | | | |
| | \bigcirc | | | | | | | | |
| | Buy Sell | Unlinked Order ticket can be launched via Market Grid, Time and Sales and Positions Widget. Right click → Click Open → Order Ticket | | | | | | | |



| DY INC. | EURO | PE DESI | K 1 | 0 | - × |
|-------------|---|---|---|---|--|
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| - | | 1676.5 | 0 6 | 1 | |
| | | 1676.0 | 0 3 | - | |
| | | 1675.5 | 0 6 | | |
| | | 1675.0 | 0 3 | | |
| | | 1674.5 | 0 | | |
| | 2 | 1674.0 | 0 | 4 | |
| | 5 | 1673.5 | 0 | | |
| | 3 | 1673.0 | 0 | | |
| | 6 | 1672.5 | 0 | | |
| | 6 | 1672.0 | 0 | | |
| 8:0 W:5 | 7 | 1671.5 | 0 | | |
| | 7 | 1671.0 | 0 | | |
| | 8 | 1670.5 | 0 | | |
| | 8 | 1670.0 | 0 | | |
| 8:0 W:5 | 5 | 1669.5 | 0 | | |
| 8:0 W:5 | 5 | 1669.0 | 0 | | |
| B:0 W:10 | 10 | 1668.5 | 0 | | |
| | | 1668.0 | 0 | | |
| | 0 | 1667.5 | 0 | | |
| | 2 | 1667.0 | 0 | | |
| | | 1666.5 | 0 | | |
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| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|----------|---------------------------------|---|
| | | 2. To enter a BUY order, click the Bids column at the desired price |
| | | 3. Select a profile |
| | | 4. Select an account |
| | | 5. Select Order Type |
| | | 6. Select TIF |
| | | 7. Enter an order quantity or |
| | | 8. select one from an order quantity box |
| | | 9. Default order quantity |
| | | 10. Cancel working orders |
| | | 11. Compliance fields |
| | | |

Carry Order Entry

| C-3M | C-None | C- | -SEP22 | SE | P22-0CT22 | OCT22-N | IOV22 | NC |)V22-3N | |
|----------------------|-----------------|--------|-----------|----------|----------------|---------|-------|----------|----------|---|
| | | - | | | | | | | | |
| Val: LV Price | ۲L | | | | Quantity | | | | | |
| | C +1/4 | +1 | +5 | +10 | addinity | | | +5 | +20 | |
| 0.5 | LVL -1/4 | -1 | -5 | -10 | | 1 | 0 🗘 | -5 | -20 | |
| Iceberg | | | | | Discretiona | ry | | | | |
| Open Qty | +5 | +20 | +50 | +100 | Cap Pric | e | С | +1/4 | +1 | |
| | 0 🗘 -5 | -20 | -50 | -100 | | 0.50 🗘 | b | -1/4 | -1 | |
| Scaling | | | | | | | | | | |
| Incr | +1/4 | +1 | Orders | | | | | | | |
| 0.0 | 01 🗘 -1/4 | -1 | | 2 🗘 | | | | | | |
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| Client ID | | | SubAcc | | | ~ | Clien | t Accour | naun | |
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| *Trading Capacity | | * | Executio | n Decisi | on Within Firm | | Clien | t Branch | n Countr | y |
| DEAL | | ~ | 123 | | | | 1 | | | |
| Decision Maker | | | Client Sh | ort Code | • | | | | | |
| | | | | | | ~ | | | | |
| *Commodity Derivativ | e Indicator | | | | | | | | | |
| 0 | | \sim | | | | | | | | |
| Optional Legal Entit | ity Identifiers | | | | | | | | | |

Carry order entry functionality is different in LMEtrader as compared with the existing LMEselect v9 GUI. The existing LMEselect v9 GUI offers the carry order entry ticket in the same place as for outright order entry.

For LMEtrader, a subset of carries will be available on the market grid every morning and the explore function can be used to add additional carries that have already been created but are not on your market grid. However if users would like to create custom carries that have not been created previously, they can use Strategy Creation widget.

LME allows users to create carries, which consist of any two prompt date legs of the same product, with the following stipulations:

- A custom carry can contain only intra-product futures contracts.
- A custom carry contract must always have 2 legs with a ratio of 1 x -1.
- For the purposes of set up only the front leg must be a buy order, and the back leg must be a sell order. This is for the definition only of the carry. This does not interfere with buying or selling the carry in order entry.
- The front leg must have an earlier expiration date than the back leg.



| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|---------------|---|---|
| | | © LMEtrader File Edit Widgets Search Explore → (1) Main → Strategy Creation |
| | | Image: Constraint of the second se |
| | | B Create Cover Seed Exchange Strategy Trade Block Watch RF0 Status Message ✓ LHE AA 070922-280922 9 2 Created 2 ✓ LHE CA 140922-190922 1 2 2 1 2 ✓ LHE CA 140922-5EP22 1 2 2 1 2 1 |
| | | 1. Define a strategy with two legs in the strategy definition grid per the rules outlined. |
| | | 2. Submit the strategy to LME, which creates the contract and makes it available for trading |
| | | 3. Use templates to customize your own strategies |
| | | 4. Save as a user-defined strategy. |
| | | The strategy name is seeded based on the legs and can be customized |
| | | 6. Leg 1 is B, Leg 2 is S for the purposes of defining the carry. Ratio will be 1. |
| | | 7. Select a product type, product and contract for each leg |
| | | 8. Click Create to submit the strategy to the Exchange. |
| | | 9. Click Trade to trade the newly created carry. |
| Scaling order | The existing LMEselect v9 GUI allows user to enter multiple orders (max ten) to enter the market at defined increments. | Functionality not available in LMEtrader |



| Function | LMEselect v9 | Trading C | Client | GUI | | LMEtrader |
|---------------------------|------------------|--|--------|--------|-------------------|---|
| Viewing Live Positions | Orders/Trading – | → Trade Stati Trade: All Total: 70 / 20 / 584 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1 | stics | ut 292 | CARRY PER ORDER O | Positions Widget LMEtrader v9 will show daily live positions on Positions widget. If the 'Create start-of-day (SOD)' records checkbox is ticked in Accounts → SOD/Credit tab (Setup App), it will rollover positions from previous day. However, this will not be accurate representation of the account/trader positions as LMEtrader only takes into account trades entered via UI with an assumption that the post trade process was successfully completed . Member Admins will be advised to always uncheck 'Create start-of-day (SOD)' records checkbox. This will ensure the positions are not rolled over from previous day. |
| Market Statistics | Shown | | | | | Functionality not available in LMEtrader |



| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|-----------------|--|---|
| Order History | Available | Functionality not available in LMEtrader ³ |
| Trade History | Available | Functionality not available in LMEtrader ⁴ |
| Column mappings | Val VWAP Agg/Inst | Settle Average price P/A (Passive/Aggressive) |
| Open Column | Always populated | Populated where it has traded |
| Close Column | Close column refers to last traded price. This is different to LAST column as 'LAST' only shows todays last traded price | Close column displays last traded price from the last session. The last session intra-day is yesterday or that day's session if it the market has already closed. If the contract did not trade in the last session then it will be blank. |
| High Column | Today's high. Populated where it has traded | Today's high. Populated where it has traded |
| Low column | Today's low. Populated where it has traded | Today's low. Populated where it has traded |
| Val/Settle | Val column displays last nights close, carries are adjusted based on today's Cash and 3M dates (with prices interpolated based on the previous night's vals) | Settle column displays last nights close |

³ LMEtrader users can view the history of all their own orders using the audit widget

⁴ LMEtrader users can view the history of all their own orders trades using the audit widget



| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|-------------------|---|---|
| Last | Last trade price today | Last trade price today |
| User Roles | GUI Trader (T) GUI VIP Trader (V) Back Office view (B) Back Office Supervisor (S) VIP Supervisor (VS) | Member Trading Admin Member Risk Admin Member Full Admin (Trading + Risk) Trading User (T) Back Office (Trading View Only User) (B) Trading Supervisory User (Back office + cancel) (S) There are no notions of VIP with increased privilege associated hierarchically. |
| Account Hierarchy | In the existing v9 GUI, the hierarchy is : Members \rightarrow Member Unit \rightarrow Users | In LMEtrader, the hierarchy is: LME Head Account \rightarrow Member Parent Account \rightarrow Member Child Accounts |



| Comp IDs | In the existing LMEselect v9 GUI, every user has a comp Id | In LMEtrader, every routing account has an active connection (Account \rightarrow Connection tab) |
|----------|--|--|
| | User → Comp ID | |
| | Schedule Change | Account → Connection |
| | User Details | + New Account @jiace #1/#35- |
| | | O Name A T Company Type Trading Disabled Disabled by Auto-Equidation Disabled by Marc Order Limit Trading Disabled Sub Order Cross Create SODs |
| | First Name Himani | MODY INC. EUROPE DESK 1 London Metal Excha Routing (external clearin |
| | Last Name Mody | |
| | E-mail | |
| | Phone Number | |
| | □ Valid From 07/09/2022 ‡ □ Valid To 07/09/2022 ‡ | Account: MODY INC. EUROPE DESK1 Parent: MODY INC. EUROPE |
| | - Deler | Settings Users Limits SOD/Credit Connections Exchanges FIX/Sessions Restrictores Sharing ChangeLogs |
| | CTS BackOffice | Corrections X1mme +40 |
| | CTS_Clearer_PTRM_Manager | # Exchange Connection Inherited . |
| | CTS_Fix_DropCopy | 1980 LME TONE AAA - Base Metals |
| | CTS_Fric_ModeProxy | |
| | CTS_Fix_PostTrade | |
| | CTS_Fix_Ptrm | |
| | | |
| | CIS_LEL_Manager | |
| | CTS_rrive_readonity | |
| | CTS_Trader_PTRM_Manager | |
| | CTS_VIP_Supervisor | |
| | CTS_VIP_Trader | |
| | SUBSCRIBING_SUPER_USER_EXTERNAL_TRADES_ONLY | |
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| Function | LMEselect v9 Trading Client GUI | LMEtrader | | |
|----------|---------------------------------|-----------------------------|--|--|
| | | Connection | ightarrow Comp ID in LMEselect v9 GUI (see next) | |
| | | Name Exchange Type | Connection Enabled Up TONY: AAA - Base Metals LME Base Connection Disabled (TT Override) | |
| | | dditional Settings | | |
| | | Primary IP * | 213.86.73.237 | |
| | | Primary Port * | 5655 | |
| | | Sender Comp ID * | AAAHDFIX10 | |
| | | Session Password * | | |
| | | FAX Key * | FA43B0FAEED18EA750A8602CE39E148B38245108D34C154DD1056BE444A92C5A | |
| | | Max Order Rate (orders/sec) | Number (optional) | |
| | | Contact Email | Email (optional) | |
| | | Primary IP * | lb. | |
| | | Primary Port * | Number | |
| | | | | |
| | | | | |



| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|--------------|--|---|
| Trade Status | Order History (Column Header – Action) 1. Entered - Order is placed & is working in the market 2. Partially Filled - Order is Partially Filled 3. Cancelled – Order is cancelled in LMEselect 4. Entered – Order is placed & is in working state in the market | Order Book 1. Working – Order is placed & is working in the market 2. Partially Filled - Order is Partially Filled 3. Hold - Order is on Hold in LMEtrader 4. UnHold – Order is released from Hold State 5. Filled - Order is Fully Filled |
| | Filled - Order is Fully Filled Cancelled - Order is cancelled | 6. Cancelled – Order is cancelled |
| | Watch List When a contract is highlighted in red color, it means the contract is in trade halt state | Market Grid Unknown - The trading state is 'Unknown' to LMET. Once an order is placed, LMEtrader will query select to get the Trading State Open - The trading state is 'Open' which means orders can be placed |
| | Note – An order on 'Hold' in LMEtrader is displayed as 'Cancelled' in LMEselect. On clicking 'unhold' LMEtrader, the order is booked as new | Freeze - The contract is in Trade Halt state in CStraw |



Charts Widget Graphs/Charts Users can open chart widget using any of the below methods: • Search for a product or instrument in the title bar, select it and then click on Chart icon • Click Explore in the title bar, select an expiry, and then click on the Chart icon. Select **Chart** from the <u>Widgets</u> menu in the title bar. ٠ Launch as a linked widget for an instrument in an open Market • Grid widget. 🔲 📈 (1) Main 🔻 4:00:44 AA 3M - Aluminium Alloy, 1 Min: Candle Q Search for instruments Explore 🕶 ७ Ł Ó Day trading (T+O) Mon 5 Sep 13:53 1670.0 1688.0 1670.0 1688.0 3 → ib 1 AA 3M 1 Min 1. Daily Value Box 2. Chart Menu

3. Time Axis

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| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|-----------------------|---|---|
| | | 4. Price Axis 5. Market Data |
| | | Technical indicators and analysis are available. |
| Inbox App | Broadcasted messages are persisted until EOD | 1. Broadcasted messages are available until End time as set by Exchange Admins |
| | | Broadcasted messages disappear once user clicks on from Hello Bar. The message will also disappear from the Message Centre once user logs out and logs in Broadcasted messages also disappear from the Message Centre once the user clicks & open the message |
| Mifid field overwrite | Trader user can overwrite the values. | Trader user cannot modify all of the MIFID / LEI parameter in LMEtrader while placing the order. They can only modify some if permissioned via Admin user. |
| Thick vs Thin client | LMEselect Trading client GUI is a thick client | LMEtrader is a web based GUI |
| VWAP | Calculated using Trade Ticker in the existing LMEselect v9 GUI Can be calculated on the fly across multiple fills | VWAP is calculated at Order level (For filled orders) LMEtrader does not provide functionality to calculate VWAP on the fly |
| Order Types | Users can book - Iceberg Stop Limit | Users can book - Iceberg Stop Limit |



| Function | LMEselect v9 Trading Client GUI | LMEtrader |
|---|--|--|
| Order Validities | Day, GTC, GTD, IOC and Ring 1 | Day, GTC, GTD and IOC Note: Order entry with 'Ring 1' time validity i.e. until 11:40am not supported in LMEtrader |
| Connection Lost (TT Server side down etc.) | All orders are pulled from the Market including Day, GTC, GTD The orders are visible and in 'Inactive' state in the users OrderBook in case they want to reactivate once systems are operational again | No orders are pulled from the Market including Day, GTC, GTD The orders are visible and in 'working' state in the users OrderBook and in the Market grid |
| TT server re- connected after server side down | TT sends an order cancel request for all orders to LMEselect and orders are shown in ' Cancelled' state | TT sends an order cancel request to LMESelect but orders are shown in ' Hold' state |
| Graceful Logout of the UI | Only Day orders will be pulled from the market in case of clean log off | No orders are pulled from the Market including Day, GTC, GTD The orders are visible and in 'working' state in the users Order Book and in the Market grid |
| Ungraceful Logout of UI/Kill application/browser (Server side is up and running successfully) | Only Day orders will be pulled from the market in case of clean log off | No orders are pulled from the Market including Day, GTC, GTD The orders are visible and in 'working' state in the users Order Book and in the Market grid |
| Auto log out | LMEselect auto logs out all users every night after trading system goes down | LMEtrader will not auto log out all users from the system. Every morning, users will be asked to manually logout and login again and refresh their workspace to ensure they have removed any stale data from the GUI |