

LCH RepoClear Margin Calculator

Optimise your margin requirements with
near real-time margin analytics

LCH's enhanced RepoClear Margin Calculator provides access to near real-time margin information that enables you to manage your clearing portfolios proactively, and identifies the main drivers of margin and portfolio sensitivities as a guide to potential optimisation opportunities.

THE CHALLENGE

01.

Market Pressures and Resource Management

Increased pressure to optimise margin requirements and collateral use.

02.

Expensive Collateral

Liquidity provision for potential unexpected cash calls.

03.

Missed Opportunities

With end-of-day views only, the majority of risk systems lack timely information for accurate risk calculations, and optimisation of initial margin (IM) and funding.

04.

Cost vs Value

Inhouse margin calculators and analytic tools are costly to develop and maintain, may contain inaccurate pricing and can introduce errors into margin calculations.

THE SOLUTION

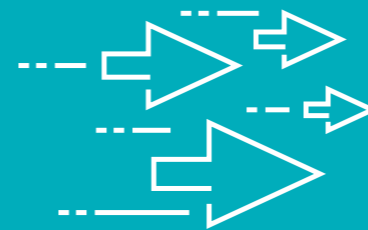
LCH RepoClear Margin Calculator is part of our suite of data, analytics and optimisation services. Developed for and with the markets, this enhanced digital tool helps members and clients drive potential cost and capital savings through more efficient resource allocation.



Gain deeper insight into LCH RepoClear's margin calculations and the positions that drive it to provide IM optimisation opportunities.



Access intermediate margin calculations giving a near real-time insight into the cleared portfolio's risk.



Facilitate easier investigation of margin changes as additional historic margin runs are available simultaneously.



Identify the drivers of margin requirements and an advance warning of margin increases.



Integrate RepoClear Margin API into existing risk and trading systems to access up to date margin calculations using LCH's risk engines.

01.

Repo Trading

- Faster Information allowing proactive management of cleared book
- Near real-time portfolio and margin updates
- Top contributions to margins to quickly identify optimisation opportunities

02.

Margin Management

- Historical comparison of margin across EoD and ITD
- Forecasting capability to see the impact of future settlements on margin requirements

03.

Risk Management

- History of margins and margin rates, sensitivities and stress views
- Sensitivity and time bucketed views of cleared portfolio

04.

Treasury

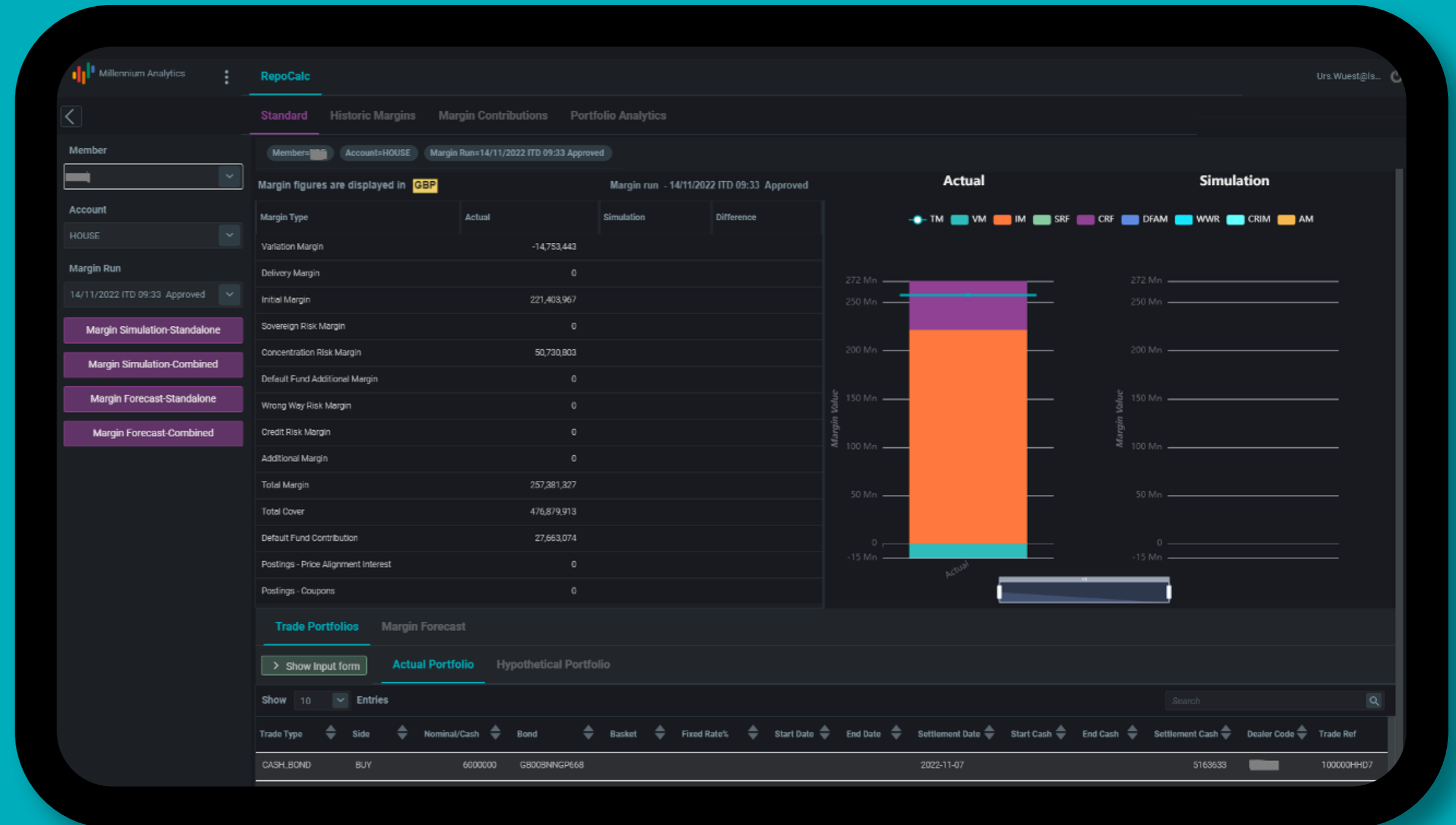
- Predict margin requirements and assess, which positions are driving the largest PV01
- View current exposures per membership

IN ACTION

01.

Access Essential Margin Calculator

- Access intermediate margin calculations for near real-time insight into your cleared portfolio's risk.
- Summarised dashboard information is available across all margin types, each allocated cost and margining performance by market.



IN ACTION

02.

All ITDs

Access all ITDs (Intra-day) and previous EoDs (End of days) for historical margin information.

The screenshot displays the LCH RepoClear Margin Calculator interface. At the top, a table lists various margin components:

Delivery Margin	0	0	0
Initial Margin	253,893,467	245,925,296	-7,968,171
Sovereign Risk Margin	0	0	0
Concentration Risk Margin	82,382,171	80,478,575	-1,903,596
Default Fund Additional Margin	0	0	0
Wrong Way Risk Margin	0	0	0
Credit Risk Margin	0	0	0
Additional Margin	31,682,055	31,682,055	
Total Margin	366,136,920	356,265,153	
Total Cover	425,400,813	425,400,813	
Default Fund Contribution	19,723,913	19,723,913	
Postings - Price Alignment Interest	0	0	
Postings - Coupons	0	0	

Below the table are tabs for 'Trade Portfolios' and 'Margin Forecast'. The 'Actual Portfolio' tab is active, showing a table of trade entries:

Trade Type	Side	Nominal/Cash	Bond	Basket	Fixed Rate
CASH_BOND	BUY	35503769	GB00BMGR2791		
CASH_BOND	BUY	37000000	GB00BL68HJ26		2022-11-29
CASH_BOND	BUY	50000000	GB00B54QLM75		2022-11-28
CASH_BOND	BUY	8000000	GB00B7Z53659		2022-11-29
CASH_BOND	BUY	3000000	GB00BHFH458		2022-11-29
CASH_BOND	BUY	50000000	GB00BRHNP05		2022-11-29

A 'Margin Run' modal is open, displaying a list of margin runs:

- 14/11/2022 ITD 09:33 Approved
- 14/11/2022 ITD 09:33 Approved
- 14/11/2022 ITD 09:42 Unapproved
- 14/11/2022 ITD 09:52 Unapproved
- 14/11/2022 ITD 10:02 Unapproved

IN ACTION

03.

Simulation of Additional Trades

- Ability to manage, create and tailor your own portfolio and trade allocation to optimise resources.
- Visualise settlement and sensitivity breakdowns.

The screenshot displays the LCH RepoClear Margin Calculator interface. It features a 'Margin Forecast' table, a 'Trade Portfolios' section with tabs for 'Actual Portfolio' and 'Hypothetical Portfolio', and a list of trades. A modal window is open, showing details for selected trades.

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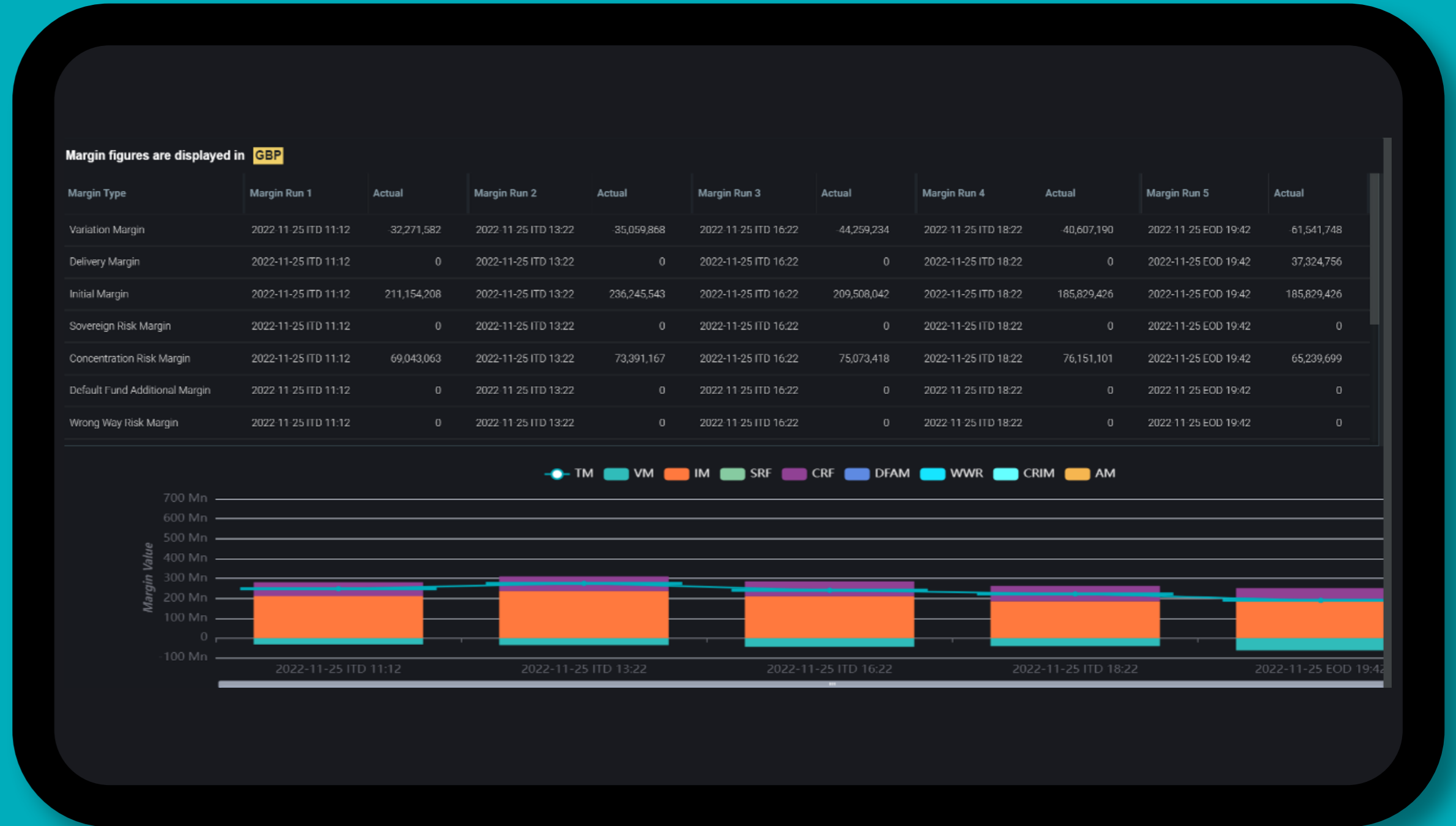
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CASH_BOND	BUY	8000000	GB00B7Z53659		
CASH_BOND	BUY	3000000	GB00BHBFH458		
CASH_BOND	BUY	50000000	GB00BDRHNP05		

Settlement Date	Start Cash	End Cash	Settlement Cash	Dealer Code	Trade Ref
2022-11-28			34318075	000	100000I4CWR
2022-11-29			33697873	000	100000I5A7
2022-11-28			60896115	000	100000I5HTZ2000
2022-11-29			7978186	000	100000I63X
2022-11-29			2938293	000	100000I6P0
2022-11-29			45848900	000	100000I7H9Z2000

04.

Powerful Margin Analytics

- Benefit from near real-time and historical statistics and graphs on margining performance by market.
- LCH RepoClear Margin Calculator's API is able to feed into core systems to integrate with your workflow.

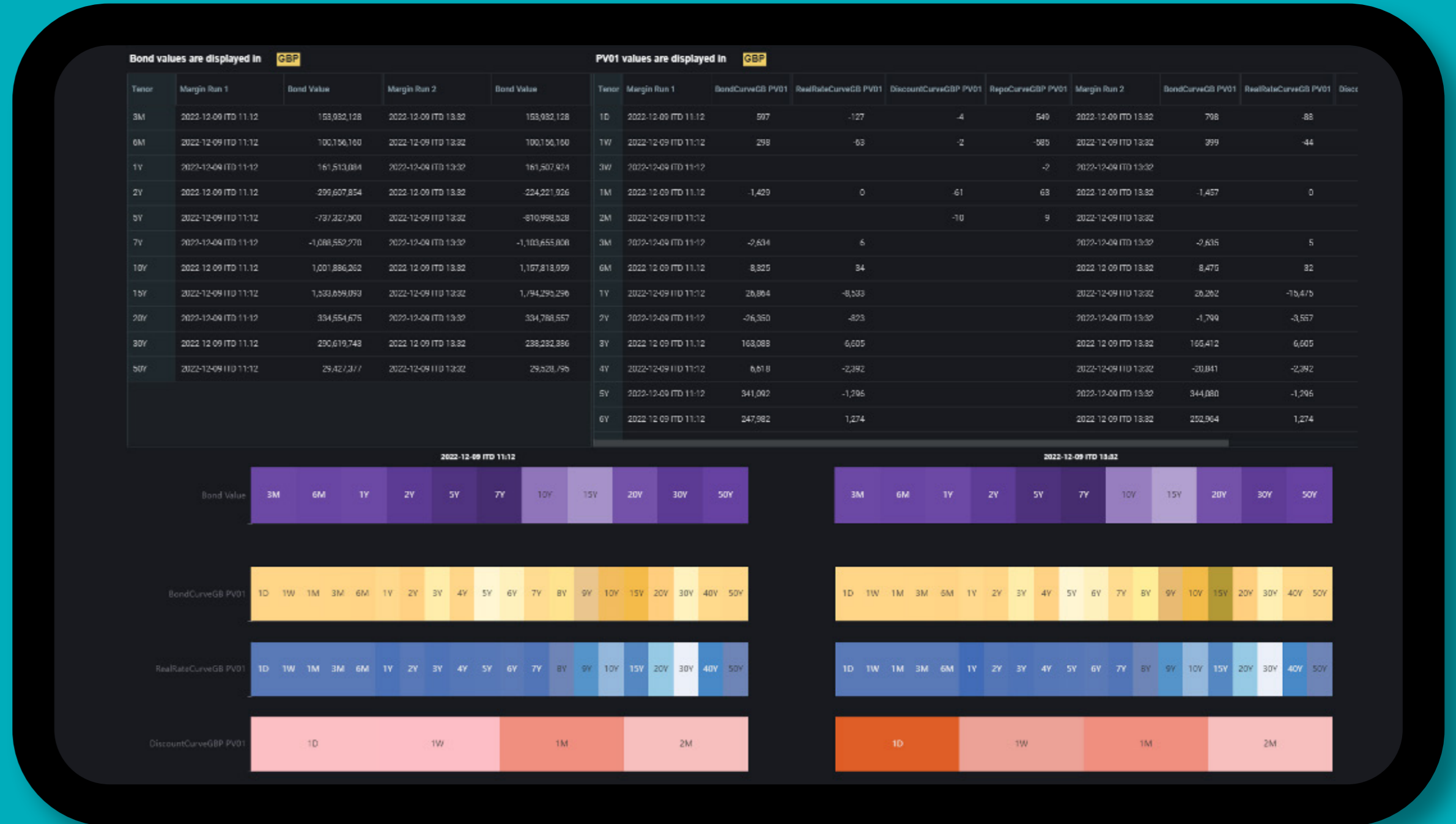


IN ACTION

05.

Margin Optimisation

The tool allows a quick assessment of a portfolio's characteristics in terms of maturities and sensitivities that allow for quick identification of optimisation opportunities.



FEATURE COMPARISON

Key Features

RepoClear Margin Calculator

- Access essential Margin Calculator
- EoD and One ITD
- Will continue to be available for free to all Members and Agents
- Simulation of additional trades

Add ons

- Access to all Margin calculator features
- EoD and all ITD
- Additional analytics

Features

	REPOCLEAR MARGIN CALCULATOR	ADD ONS
Rest API	NO	YES
Margin Simulations	YES	YES
Multi-day Margin Forecast	NO	YES
Number of Simulated Trades for GUI	600	UP TO 6000
Near Real-time Intermediate Margins Runs	NO	YES
Margin Breakdown to Driving ISIN	NO	YES
Risk Sensitivities	NO	YES

ACCESS TODAY

Start optimising your margin today.

**LCH members can now access the LCH RepoClear Margin Calculator via the LCH Portal.
Add-on analytics can be requested by contacting us our Sales team.**

RepoClearGroupSales@lch.com

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