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Bridge Manual

Explore the ins and outs of Centroid Bridge with our easy-to-follow online manual. We break down all the modules, components, columns, and fields, explaining them in plain language and accompanying the details with helpful screenshots, images, and diagrams.

This manual has moved online from the old PDF version, making it simpler for you to grasp the system and how to use it. It's not a one-time thing – we'll be updating it regularly to keep you in the loop. Get started and uncover the straightforward power and features of your Centroid Bridge!

What's Inside:

- **Clear Instructions:** Follow step-by-step guidance to navigate through Centroid Bridge effortlessly.
- **Visual Assistance:** Learn with ease using screenshots, images, and diagrams that accompany every explanation.
- **User-Friendly Design:** Our online format ensures easy navigation, allowing you to find information quickly.
- **Search Functionality:** The search button is your handy tool to locate specific information swiftly, ensuring a seamless learning experience.

Why Online?

We've transitioned from the traditional PDF to an online manual to make your learning experience smoother and more accessible. No more flipping through pages – everything you need is just a click away. Dive into the simplicity of Centroid Bridge and stay tuned for regular updates, keeping you informed about the latest features and improvements. Happy exploring!

Changelogs

Welcome to our Changelogs, the pulse of updates and improvements for Centroid Bridge. In this ever-evolving landscape, staying current is key. Our changelogs provide a snapshot of the enhancements, fixes, and additions we've made, ensuring you are always informed about the latest features and optimizations. Dive into the details below to discover how Centroid Bridge is continually evolving to meet your needs.

Bridge Changelog

Release Date	Bridge Version	Release Notes
04/12/2025	v2.0.1	**New Features & Integrations** • Integrated NatWest Dropcopy • Integrated Aldar (ZagTrader) • Integrated 360T Maker • Introduced Min & Max Spread Variable configuration under Markup Model • Introduced Position Comparison Dashboard under Reports (UI) • Added Upload Option for Dividends Adjustment (UI) **Improvements & Bug Fixes** • Optimized Synthetic Symbol Calculation • General optimization to improve connectivity and utilization • Improved UI for Maker and Taker Config Tables (UI) • Fixed minor issue with Symbols filter across components (UI)
03/15/2025	v2.0.0	**New Features & Integrations** • Integrated Unity Finance Maker • Integrated FastMatch - Euronext Maker • Integrated xSyphon Maker **Improvements & Bug Fixes** • Optimized Refinitiv Maker Connection • Fixed Markup in Hedge Trade Order from Hedge Trade Rule
02/01/2025	v1.9.9	**New Features & Integrations** • Integrated Vulkan • Integrated 24Exchange • Integrated Matchtrade latest FIX API to support PartyId **Improvements & Bug Fixes** • Added symbol identifier for OKX to differentiate Spot and Perpetual trading • Added safety feature for multiple Pending Orders • Upgraded WebSocket library • Fixed Stale Rules inactive session issue • Fixed unexpected legs that are violating a_step on the Maker level affecting a few makers
01/11/2025	v1.9.8	**New Features & Integrations** • Introduced Tiered Margin under Limit Symbol Groups, now exclusively available in Demo Bridge for evaluation • Integrated Edgewater Markets **Improvements & Bug Fixes** • Enhanced ID generation of Taker Execution Rules per Taker

		• Extended character supports for Taker Execution Rules filters
		  ◦ Securities
		  ◦ Symbols
		  ◦ Logins
		  ◦ Groups
		• Updated Login validation for Hedge Trade Rule. Login can now be optional for FIX API trades.
		• Improved fail-safety of Synthetic symbol with incorrect formula
		• Improved the Risk Account Statement (Reports) to support displaying

11/30/2024	v1.9.7	**New Features & Integrations** • Integrated Brokeree Maker • Implemented instant activation for Use Execution Rule by removing the need for restart • Implemented a failover mechanism for Taker Execution Rules to handle scenarios with no valid rules **Improvements & Bug Fixes** • Added a warning message to the Maker API Link component for empty tag values • Implemented validation to ensure the Limit Symbol Group cannot be deleted if linked to Account Groups • Restructured the components under the Takers (Side bar) • Enhanced trade rejection alerts with more details • Divided Logs and Monitoring into distinct sections • Fixed the issue with the availability of the download button for uncompressed logs • Fixed Taker Feed remapping upon Taker deletion • Fixed a minor issue with the Notification settings • Resolved the issue with saving Markup Model WL values • Resolved the issue with search filters across multiple components
11/09/2024	v1.9.6	**New Features & Integrations** • Integrated Autex Refinitiv • Integrated SNB Capital • Integrated Bybit Crypto Exchange • Introduced excluding FIX tag via Maker API Link **Improvements & Bug Fixes** • Increased Conversion Rate Precision • Enhanced the Taker and Maker status (UI) • Updated pop-up notifications to the new toast style (UI) • Resolved a minor bug in the Risk User Trade component (UI) • Simplified Symbol Format options in Trade Copier, Giveup Rule, and Hedge Trade Rule (UI)
10/20/2024	v1.9.5	**New Features & Integrations** • Introduced a New feature, "Taker Execution Rules (Beta!)" under Takers, that supports trade routing for all taker types using customizable filters. • Integrated Wintermute Crypto • Integrated Mahi Markets • Integrated Arqaam Capital • Integrated IG's latest FIX API • Integrated Mubasher's latest FIX API

		Improvements & Bug Fixes • Revamped the Risk User creation form to include Risk Account information configured using the Taker Risk Filter (UI) • Improved the Order History Report for Risk User by adding a new 'Reason' column, which can be configured via the Resource column under Permissions in Bridge and is disabled by default (UI) • Resolved the issue with closing trades involving decimal volumes from the positions report for Risk Account type (UI) • Addressed a minor UI bug affecting Maker selection in give-up rules (UI) • Increased allowed Book Construction under the Liquidity Model • Enhanced Maker Alerts and Status
09/14/2024	v1.9.4	**New Features & Integrations** • Integrated Bloomberg FIXNet • Integrated Onyx MarketData • Integrated Bita Index Pricing • Integrated Fortex's latest FIX API • Integrated Huobi Crypto Trading • Introduced new filter and function under Maker API Link ◦ Message Type (New Order, Cancellation, Modification, and Any) • Added Auto-Optimization feature **Improvements & Bug Fixes** • Increased allowed Taker Execution Model under Maker API Link • Optimized Stale Price Module • Optimized Action Scheduler Module • Optimized Liquidity Model Module • Optimized Bridge Performance and Caching • Fixed high-precision volume display in system logs • Fixed trading data reconnection • Resolved issue with missing symbol descriptions in the Taker Execution Model (UI v1.2.7)
08/31/2024 UTC	v1.9.3	**New Features & Integrations** • Integrated CMC's latest FIX API and Products • Integrated SoftWiz Maker • Integrated VCT Technologies • Enabled custom TransactTime configurations for each Maker **Improvements & Bug Fixes** • Added Markup Model in the report module • Enhanced trade copier fail-safety against unexpected values • Reverted MinSpread & MaxSpread calculation on both price adjustment
07/27/2024 UTC	v1.9.2	**New Features & Integrations** • Integrated Leverate Maker • Re-integrated with the latest CMC version • Added new Book Construction mode in the Liquidity Model ◦ **VWAP** - The VWAP (Volume Weighted Average Price) mode involves defining specific quantity levels, where the system generates these levels and their corresponding prices based on maker depth. The price for each level is calculated using the VWAP of the levels.

		◦ **VWAP_CUM_QTY** - In the VWAP_CUM_QTY mode, cumulative quantity levels are defined, and the system creates these levels and their prices based on liquidity provider depth, using the VWAP of all contributing levels. ◦ **CUM_QTY** - The CUM_QTY mode involves defining cumulative quantity levels, where the system generates these levels and their prices based on liquidity provider depth, using the worst price of the last contributing level without averaging. **Improvements & Bug Fixes** • Added alerts for filled Risk Stopout orders • Improved synchronization of Risk Account and Taker Execution Model • Enhanced Action Scheduler fail-safety against unexpected values • Improved symbol filtering for faster UI data fetching • Fixed issues with Margin Call rejections
06/28/2024 UTC	v1.9.1	**New Features** • Added Order Delayed Confirmation under Taker Execution Model ◦ Brokers now have the option to delay the confirmation of an order on both Abook and Bbook using 'ODelay' parameters • Added BLast Resort Option under Taker Execution Model ◦ Brokers may now opt to execute rejected Abook trades as BBook using 'BLast Resort' parameter **Enhancements & Bug Fixes** • Enabled Synthetic Symbol to Use Source Symbol last known price ◦ The bridge will now use the last known price of the source symbol to ensure that the synthetic symbol price remains stable and accurate, preventing unexpected price swings • Enhanced MinSpread & MaxSpread calculation on both price adjustment and execution • Added External information in REST API open orders ◦ External Login ◦ External Group ◦ External Order ID • Enhanced trade rejection alert messages
05/18/2024 UTC	v1.9.0	**Enhancements & Bug Fixes** • Added ZAR as Risk Account Currency • Enforced Maker Scaling Rule over Scale Size • Fixed Maker Scaling with Maker Step settings • Refined duplicated ticks filtration ◦ Filtration will only work if the price and volume on both sides are all the same when received from the Maker
05/11/2024 UTC	v1.8.9	**Enhancements & Bug Fixes** • Fixed Trade Copier volume issue • Improved validation for Hedge Trade Rules • Minor System Enhancement
05/04/2024 UTC	v1.8.8	**New Features & Integrations** • Integrated Binomial Crypto Maker • Introduced Hedge Trade Rule ◦ Copy or hedge a trade with a customizable delay, specified in milliseconds, to optimize timing and potentially minimize slippage.

		◦ Copy or hedge a trade with a refined mechanism for securing a better price while maintaining control over the acceptable deviation from the ideal price point, thereby managing risk more effectively. • Introduced Hedge Trade Order ◦ To monitor all waiting or rejected hedge orders, ensuring real-time visibility and proactive management to optimize trading strategies and mitigate potential risks. • Introduced Upload Position feature for Risk Accounts ◦ Streamlining the process of managing positions within risk accounts, we've implemented a convenient feature allowing users to migrate or add/reduce positions effortlessly. This is achieved by simply uploading an Excel file following a predefined template, simplifying data entry, and ensuring accuracy and efficiency in position management. **Enhancements & Bug Fixes** • Enhance support of Binance Resting Orders • Refined various logic when updating Maker Symbols • Improved Timeout Error logging • Refined how Bridge handles duplicated ticks
03/23/2024 UTC	v1.8.7	**New Features & Integrations** • Integrated Saxo Maker(FX products) • Integrated Huobi Crypto Maker • Integrated Binance Futures Funding Rate • Introduced Upload Position feature for Taker execution model **Enhancements & Bug Fixes** • Auto re-subscribe when updating Maker symbol for various Makers • Improved volume handling with high-precision Volume Digits • Fixed Action Scheduler when reverting values
03/02/2024 UTC	v1.8.6	**New Features & Integrations** • Integrated Crossover CROSSx technology • Integrated Exness Maker • Integrated Accelpix Maker • Enhanced Maker API Link to send FIX tag as a header • Optimized system performance
02/03/2024 UTC	v1.8.5	**New Features** • Redesigned Maker Price Failover feature ◦ Updated core logic from tick counts to maker last update ◦ Added Warning Timeout (sec) ◦ Added Error Timeout (sec) ◦ Enhanced the alerts and logs • Added Stale price alerts • Added Rejected trade alerts **Bug Fixes** • Fixed Volume Splitting with high-precision Volume Digits
01/18/2024	v1.8.4	**New Features & Integrations** • Integrated LMEX Crypto Maker

UTC		• Added multi-routing of trades with multiple Taker API Link rules
		Improvements & Bug Fixes
		• Increased character limit for the following components and columns:
		  ◦ Concentration Per Login - Symbols
		  ◦ Filtration Pool - Symbols
		  ◦ Action Scheduler - Symbols & Components
		  ◦ Taker API Link - Taker Execution Models
		• Enhanced Symbol upload
		• Fixed Trade Copier issues with high-precision Volume Digits
		• Fixed restart issues affecting Action Scheduler settings
		• Optimized system performance

12/30/2023 UTC	v1.8.3	**New Features** • Added Price Failover feature (**Beta!**) - Added Failover Makers under the Liquidity Model component - Added Symbols Profile component - Added Stale Price component • Implemented Trade Pattern Detection and Re-routing to a different Taker Execution Model via Taker API Link. - Added new column Order Repetition Interval - Added new column Order Repetition Counter
12/09/2023 UTC	v1.8.2	**Improvements & Bug Fixes:** • Enhanced rejection for internalized orders • Added new required logic for IBKR orders • Fixed Confirm_by_request_price with BDelay
11/18/2023 UTC	v1.8.1	**New Features & Integrations** • Integrated Blockfills Maker • Added Taker Risk Account map filter • Added Negative Slippage Absorption settings • Implemented Scalper detection and Trades Re-routing to a different Taker Execution Model • Extended character support for Groups and Symbols under Trade Copier and Giveup Rule **Improvements & Bug Fixes** • Enhanced liquidity book consumption for internalized trades • Enhanced rejection of unsupported order types • Enhanced Action Scheduler logic for reverting values and improved logging • Fixed giveup trades issues with FXCM Maker type
11/04/2023 UTC	v1.8.0	• New Feature: Realized commission per deal on Risk Account • New Feature: Reject trades per login based on net volume • Enhancement: Book snapshot after BDelay • Enhancement: Increased decimal support for risk accounts statements and positions • Enhancement: Removed default max spread on new markup model with pre-configured markups

10/14/2023 UTC	v1.7.9	**Aggregator** • Enhancement: Consistency with Price Adjustment when Min/Max Spread violation is active • Enhancement: Inverted prices are now allowed but will be adjusted with the help of Min Spread value within the Markup model • Maker Integration: IG Maker partially filled orders • Bug Fix: Book construction with Min/Max Spread Violation
09/09/2023 UTC	v1.7.8	**Aggregator** • New Feature: GMA Websocket Market Data Integration • New Feature: Solid FX Integration • New Feature: StoneX Integration • New Feature: MT4/MT5 Swap Uploader via Centroid Bridge • Enhancement: Taker API Link - Exec Report will no longer return modified external values by default • Bug Fix: Min Spread adjustment for Odd Values **Centroid New UI** • New Feature: MT4/MT5 Swap Uploader via Centroid Bridge under Operations • Enhancement: New UI Memory enhancement
08/12/2023 UTC	v1.7.7	**Aggregator** • New Feature: Maker/Taker Integration with Integral • Enhancement: Disabling the taker no longer disable all the assigned Taker Feed • Bug Fix: DB File lock issue on Bridge Restart
08/05/2023 UTC	v1.7.6	**Aggregator** • Enhancement: Market order to PXM maker type will now include tag 44 with TOB • Enhancement: Validation of Spread with min spread value • Enhancement: Pre-Agg Markup support for all Maker type

07/29/2023 UTC	v1.7.5	**Aggregator**
		• New Feature: Min Spread Execution Mode
		• New Feature: Interactive Brokers Market Data Integration
		• New Feature: AutuMarket Data
		• Improvement: Integral Maker to add base CCY on FIX tag 15
		Centroid UI
		• Max Spread Exec Mode changes
		  ◦ SLIP has been updated to PASS with the same logic
		  ◦ ACCEPT has been updated to ABSORB with the same logic
		• Added Min Spread Exec Modes
		  ◦ ABSORB (default) - Positive slippage will be absorbed by the broker
		  ◦ PASS - Positive slippage will be shared with the client

		◦ INVALIDATE - Prices will be invalidated ◦ REJECT - Price will be adjusted and trades will be rejected ◦ INVALIDATE & REJECT - Prices will be invalidated and trades will be rejected
07/15/2023 UTC	v1.7.4	**Aggregator** • Bug Fix: Risk Account: Margin and P/L Conversation Rate
06/24/2023 UTC	v1.7.3	**Aggregator** • New Feature: Maker scaling (volume and price multiplier) • New Feature: cTrader maker integration • Improvement: IG integration indicative price • Improvement: OKCoin/OKX batch subscription • Improvement: Add more takers under the taker feed • Improvement: Increased supported value for quote currency from 3 to 4 characters • Improvement: IBKR reconnection when TWS forcibly restarted • Bug Fix: Taker execution model (TTL) with trade copier • Bug Fix: MinQty for specific maker with trade copier • Bug Fix: Maker symbol price feed mode **Centroid UI** • New Feature: Maker scaling added under Makers
04/02/2023 UTC	v1.7.2	**Aggregator** • New Feature: New Commission Types (Fixed per lot / Fixed per vol) • New Feature: OKCoin/OKX Integration • Improvement: BierBaumPro Integration - Quote Types • Improvement: Binance Futures - Symbol resubscription • Bug Fix: Duplicated giveup request • Bug Fix: B2C2 Limit order (1.7.1 special release) • Bug Fix: Maker Symbol Price Feed Mode • Bug Fix - Limit Orders Module Deadlock **Centroid UI** • Bridge Restart Alerts • New Report Column: Concentration Value and Comment • New Report Column: Order Ext Info for MT5 Custom Data
02/10/2023 UTC	v1.7.0	**Aggregator** • New Feature: Risk Account Statement (Branding) • Improvement: Synthetic symbol average formula • Improvement: Log representation for partial A/B book trades • Improvement: Added new rejection message for maker step violation • Improvement: Trade Copier issue for duplicated maker execution report • Bug Fix: Symbol Deletion with Limit Symbol Group

		Centroid UI • Improvement: Multi-edit for taker symbol and maker symbol now takes universal symbol name and added extension • New Feature: Added Branded Statement Section • Bug Fix: Action Scheduler issue with spaces
01/27/2023 UTC	v1.6.9	**Aggregator** • Improvement: Concentration Per Login Account - Handling of Fractional Value and minor bug fixes • New Feature: BierbaumPro Integration • Bug Fix: CCY for Risk Account Balance Transaction **REST API** • New Feature: Upload Hub aggregation model symbols endpoint • New Feature: Upload Maker symbols Endpoint • New Feature: Upload Taker feed symbols Endpoint • New Feature: Upload Taker execution symbols Endpoint **Centroid UI** • New Report: Login Spread Report
01/07/2023 UTC	v1.6.8	**Aggregator** • Bug Fix: Concentration Per Login Account - Fixed High Volume Precision • Bug Fix: Action Scheduler Markup Model Parameter • Improvement: Refined TakeProfit Technology Maker Integration

UI Changelog

Release Date	UI Version	Release Notes
04/12/2025	v1.3.7	**New Features:** • Introduced Position Comparison Dashboard under Reports • Added Upload Option for Dividends Adjustment **Improvements**: • Improved UI for Maker and Taker Config Tables • Fixed minor issue with Symbols filter across components
03/01/2025	v1.3.6	**Improvements** • Enhanced Swaps group selection functionality, now supporting an unlimited number of groups for selection and updates • EOD Risk Account Statement time can now be aligned with Market EOD time (backend configuration required) • Added a new option under Risk User to enable Monthly Statements alongside the existing Daily Statement • Introduced Swaps Groups Logs under Operations to track the progress and changes made within the Swaps Groups module • A minor update has been made to the Dividends Adjustment (MT5) under Operations • Enhanced Market Watch to reduce the loading time in the Symbols dropdown menu
02/15/2025	v1.3.5	**No Public News** • Internal updates
02/01/2025	v1.3.4	**New Features** • Introduced Profile under Market Watch, allowing you to create, save, and switch between predefined symbol sets for quick access and seamless monitoring **Improvements** • Refactored Symbols column search filtering by implementing a tree selection system for more structured filtering and smoother navigation (UI) • Market Watch Caching is now enabled, preserving your last selected symbols for easy access (UI)
01/11/2025	v1.3.3	**Improvements** • Improved the Risk Account Statement (Reports) to support displaying historical data for Open Positions and Account Balances • Separated the Taker Feed column from the Taker Symbol column in Market Watch List mode • Enhanced Taker Execution Rules by moving Export/Import functionality to the taker level • Introduced Spanish to the list of supported languages • Enhanced the selection style for Market Watch Modes
11/30/2024	v1.3.2	**Improvements & Bug Fixes** • Added a warning message to the Maker API Link component for empty tag values • Implemented validation to ensure the Limit Symbol Group cannot be deleted if linked to Account Groups

		• Restructured the components under the Takers (Side bar) • Divided Logs and Monitoring into distinct sections • Fixed the issue with the availability of the download button for uncompressed logs • Fixed a minor issue with the Notification settings • Resolved the issue with saving Markup Model WL values • Resolved the issue with search filters across multiple components
11/09/2024	v1.3.1	**Improvements & Bug Fixes** • Enhanced the Taker and Maker status (UI) • Updated pop-up notifications to the new toast style (UI) • Resolved a minor bug in the Risk User Trade component (UI) • Simplified Symbol Format options in Trade Copier, Giveup Rule, and Hedge Trade Rule (UI)

10/26/2024	v1.3.0	**Improvements**
		• Added Rounding Modes and Precision in the Dividends Adjustment
		  ◦ **No Rounding**: Rounding is handled entirely by the MT platform.
		  ◦ **Round Up**: Dividends rounded up before pushing to MT.
		  ◦ **Round Down**: Dividends rounded down before pushing to MT.
		  ◦ **Client**: Rounding is adjusted in favor of the client.
		  ◦ **Broker**: Rounding is adjusted in favor of the broker.
		  ◦ **Standard**: Follows standard rounding rules
		• Optimized User Interface
		• Various internal improvements to boost efficiency and reliability

10/21/2024	v1.2.9	**New Features & Integrations** • Introduced a New feature, "Taker Execution Rules (Beta!)" under Takers, that supports trade routing for all taker types using customizable filters. **Improvements & Bug Fixes** • Revamped the Risk User creation form to include Risk Account information configured using the Taker Risk Filter (UI) • Improved the Order History Report for Risk User by adding a new 'Reason' column, which can be configured via the Resource column under Permissions in Bridge and is disabled by default (UI) • Resolved the issue with closing trades involving decimal volumes from the positions report for Risk Account type (UI) • Addressed a minor UI bug affecting Maker selection in give-up rules (UI) • Enhanced Maker Alerts and Status
10/05/2024 UTC	v1.2.8	**New Features** • Introduced Branded Logo ◦ Brokers will have the option to upload their logo, which will be displayed to their Risk Users. The logo can be uploaded from Branded Logo section available under Risk Users from the Bridge **Improvements** • Added Tickets Type for the Risk User's Market Watch • Enhanced the Market Watch List Mode for both Bridge and Risk Users • Implemented an option that allows users to manage the visibility of Last Traded Price, Last Traded Volume and Maker Name on the Bridge Market Watch for Tickets Type • Added a button to expand and collapse the Market Watch search bar

09/13/2024 UTC	v1.2.7	**Improvements and Bug Fixes** • Resolved issue with missing symbol descriptions in the Taker Execution Model

09/07/2024 UTC	v1.2.6	**New Features**
		• Enhanced all component creation forms
		• Enabled exporting of Bridge manual contents
		• Introduced new REST API endpoints for GET, POST, PUT, and DELETE operations on the following Bridge components:
		  ◦ Giveup Rules
		  ◦ Taker Feeds
		  ◦ Taker Execution Models
		  ◦ Risk Users
		Improvements and Bug Fixes
		• Added a confirmation button for uploading symbol files
		• Improved and streamlined the user account window
		• Fixed the default landing page for Bridge

08/31/2024 UTC	v1.2.5	**No Public News** • Internal updates

08/17/2024 UTC	v1.2.4	**New Features**
		• Added a New Feature for Scheduling Bridge Restarts:
		  ◦ A new module has been introduced under Actions Scheduler - Advanced Actions, which now supports scheduling Bridge Restarts.
		  ◦ The existing Action Scheduler Rules have been relocated to Component Actions under the Actions Scheduler.
		  ◦ Advanced Actions Logs have been introduced under Monitoring to display the outcomes of actions scheduled within the Advanced Actions module.
		Improvements
		• Included milliseconds in the timestamp for the Taker Send Time column in the reports.

07/27/2024 UTC	v1.2.3	**New Features**
		• Added New Modes for Book Construction under the Liquidity Model:
		  ◦ VWAP
		  ◦ VWAP_CUM_QTY
		  ◦ CUM_QTY
		Improvements and Bug Fixes
		• Enhanced performance by calibrating the Symbols loading for the following components:
		  ◦ Liquidity Model
		  ◦ Markup Model
		  ◦ Makers
		  ◦ Limit Symbol Group
		• Fixed a minor bug in Risk User's MarketWatch for symbols containing special characters
		• Resolved the file Upload issue for the Liquidity Model, Markup Model, and Makers

07/20/2024 UTC	v1.2.2	**No Public News** • Internal updates

06/29/2024 UTC	v1.2.1	**New Features**
		• Introduced Notification Sounds for Bridge Alerts
		  ◦ Brokers can now set Notification Sounds from the Account section
		  ◦ Supports Custom Sound Upload
		• Added New columns under Taker Execution Model:
		  ◦ ODelay Min
		  ◦ ODelay Max
		  ◦ BLast Resort
		• Implemented Operation Logs to track Swaps and Dividend changes
		Improvements and Bug Fixes
		• Enhanced the One-Click Maker deployment process
		• Fixed minor issues with the White Theme and Maker Status
		• Resolved the error in the Workspace for Hedge Trade components

06/08/2024 UTC	v1.2.0	**New Features** • Introduced One-Click Maker deployment process for Centroid to Centroid connections (Manual will be published soon) • Introduced new REST API and WebSocket to GET Positions under Reports • Added Classic theme to the existing list of themes **Improvements and Bug Fixes** • Added Security column to Symbols Profile • Fixed multiple issues with the White theme • Fixed the bug where cells remained highlighted even after saving • Resolved a minor issue related to Dividends for the MT4 Operations Plugin • Enhanced the Trading API by introducing external login, group, and orderID fields to the open_orders endpoint
05/25/2024 UTC	v1.1.9	**Improvements and Bug Fixes** • Major Update to Swaps & Dividends Operations with enhanced performance • Added a checkbox under the Maker API Link to include a tag as a header in the FIX message • Fixed the Incorrect Loading in components where rules does not exist • Optimized the Symbol Loading for Taker Execution Model • Fixed the issue where language and theme settings were reverting upon logout • Resolved a minor issue with Push ticks
05/11/2024 UTC	v1.1.8	**Improvements and Bug Fixes** • Implemented validation & Enhanced the UI for Hedge Trade Rule • Fixed Session Wizard when creating a new Stale Rule • Improved External Markup precision in various Reports • Enhanced the Password Reset process • Removed BBOOK as Maker from Stale Rules • Resolved a minor issue with the Notification Alerts • Added Risk Account Template Button for Position Upload

04/27/2024 UTC	v1.1.6	**Improvements and Bug Fixes** • Enhanced the scrollbar functionality when using the Liquidity Model dropdown menu • Fixed the decimal precision for Prices and Spreads in the MarketWatch • Adjusted default permissions of Users • Fixed volume precision within Trading Platform

04/06/2024 UTC	v1.1.5	**New Features**
		• Implemented new Permissions for read-only Broker users
		  ◦ Permission to Download Reports
		  ◦ Permission to Download Logs
		Improvements and Bug Fixes
		• Improved UI side pane when minimizing all modules
		• Improved all upload wizard preview
		  ◦ Uploaded file will be removed after a successful upload
		  ◦ Uploaded file will be retained after a failed upload to review
		• Fixed the Liquidity Model limitation within the Taker Execution Model
		• Adjusted UI MarketWatch to display price precision based on Symbol Digit settings
		• Fixed MarketWatch with read-only Broker users
		• Fixed Session Wizard of the Action Scheduler

03/23/2024 UTC	v1.1.4	**New Features**
		• Revamped and Enhanced Market Watch with the following new features:
		  ◦ Redesigned UI for improved user experience
		  ◦ Ability to capture Screenshots at the Symbol or Global level
		  ◦ Option to display Depth on Symbol level or Global level
		  ◦ Easily toggle the Play or Pause button while reviewing prices
		  ◦ Export option available for list view
		• Enhanced Symbol Session Wizard and added the following new features:
		  ◦ Timeline & Text Mode
		  ◦ 24-hour clock notation
		• Implemented a new feature for uploading Taker Execution Model Positions
		  ◦ Added option to download the template in Positions Report
		  ◦ Added option to upload Excel file containing new positions in Positions Report
		Improvements and Bug Fixes
		• Restructured Risk Account component arrangement
		• Fixed minor issues with saved columns in the Reporting module
		• Fixed minor issues when sending Daily statements
		• Fixed the Book Construction upload issues under the Liquidity Model

03/09/2024 UTC	v1.1.3	**New Features**
		• Introduced Two-Factor Authentication to Elevate UI Security.
		  ◦ Introduced Depth in MarketWatch for Risk Users.
		• Added new REST API endpoints to GET, POST, PUT, and DELETE for the following Bridge components:
		  ◦ Account Groups
		  ◦ Limit Symbol Group
		  ◦ Risk Account

		◦ Taker Risk Filter **Improvements & Bug Fixes** • Enhanced Symbol filtration for Risk User's Trading Platform. • Enhanced Page Summary Panel for Reports Module
02/24/2024 UTC	v1.1.2	**New Features** • Integrated new channels for Centroid Bridge alerts ◦ Telegram Messenger ◦ Slack • Added relevant fields for new channels under the profile ◦ Telegram Notification ◦ Slack Notification • Implemented a new design for UI alerts ◦ Added bell icon for historical alerts ◦ Added a news ticker at the bottom of the page for live critical alerts **Improvements & Bug Fixes** • Added bulk edit option for Swaps Symbols under Operations • Enhanced Taker Execution Model validation for Min & Max Volumes • Enhanced Taker API Link validation for Min & Max Size • Fixed "View Results" in the Reporting module • Moved MT4/MT5 download folder to the Online Manual
02/10/2024 UTC	v1.1.1	**Improvements & Bug Fixes** • Sorted Symbols in alphabetical order for all components • Enhanced Symbol Profile Module ◦ Added Warning message for validations ◦ Updated URL link ◦ Fixed Warning and Error timeout validation • Fixed Book Construction validation during creation • Minor update on Trading API Reference
02/03/2024 UTC	v1.1.0	**New Features** • Added Workspace for creating a customized dashboard • Added new REST API endpoint to GET Taker Feed information • Added new REST API endpoint to GET Taker Execution Model information **Improvements** • Replaced columns under Symbol Profile ◦ Added Warning Timeout (sec) ◦ Added Error Timeout (sec) • Redesigned and simplified the bridge Search button
01/27/2024 UTC	v1.0.9	**Improvements & Bug Fixes** • Added validation of mandatory fields for Balance Transaction • Enhanced Risk Account creation wizard • Enhanced Taker Risk Filter creation wizard • Added export button for Risk User

		• Enhanced general UI pages and component tables

01/18/2024 UTC	v1.0.8	**New Features & Integrations**
		• Added the following Online Documentation:
		  ◦ Centroid Bridge Manual
		  ◦ Config Rest API and WS
		  ◦ Trading Rest API and WS
		• Added Risk User Permissions
		• Added URL "bridge.centroidsol.com" for Rest API & WS endpoints
		Improvements & Bug Fixes
		• Enhanced grid for the following components:
		  ◦ Filtration Pool
		  ◦ Giveup Rule
		  ◦ Limit Symbol Group
		  ◦ Maker API Link
		  ◦ Taker API Link
		  ◦ Trade Copier
		• Fixed missing actions when editing Concentration Per Login

01/13/2024 UTC	v1.0.7	**New Features & Integrations** • Added option to save and reset predefined columns for Reports • Added new REST API endpoint to GET Symbol information • Added new REST API endpoint to GET Limit Symbol Group information **Improvements & Bug Fixes** • Enhanced Action Scheduler Grid • Redesigned the pattern picker • Renamed Enabled Multiplier to Multiplier Mode • Enhanced deletion response with Accounts Groups • Removed BBOOK as Maker from various components and filters
12/30/2023 UTC	v1.0.6	**New Features** • Added Failover Makers under the Liquidity Model component • Added two new components: Stale Price & Symbols Profile • Added two new columns for Trade Pattern Detection within the Taker API Link: Order Repetition Interval & Order Repetition Counter. • Added a 'Read-Only' option for users within the Bridge. **Improvements and Bug Fixes** • Enhanced the column arrangement in both the Taker Risk Filter and Taker API Link Component. • Enhanced the column layout across various components within Bridge. • Enhanced the presentation of taker symbols within the Risk User interface • Enhanced the Search Window functionality across different components in Bridge, enabling the input of values • Fixed the UI Time Display

11/18/2023 UTC	v1.0.5	**New Features** • Added new component "Taker Risk Filter" • Added new columns within the Taker Execution Model for Negative Slippage Absorption • Added new columns or filters within the Taker API Link for Volume and Scalper Detection **Improvements & Bug Fixes** • Added summary box in Maker Notional Chart • Fixed Report date selection filter • Fixed default Risk Alias account in Risk User • Fixed Expiry Date allowed values in Maker Symbol settings
11/11/2023 UTC	v1.0.4	• Enhancement: Sidebar icons when using collapsed mode • Enhancement: Exported details of "Trade Statement" within Risk User • Enhancement: Removed not supported components in the workspace within Risk User • Bug Fix: Reset password link • Bug Fix: Deleting FIX taker
11/04/2023 UTC	v1.0.3	• New Feature: Quick Navigation Search to easily find modules and components • New Feature: Highlight values with Markdown or Negative Markup in the Markup Model • Enhancement: Aligned the "Add Risk account" table under the Risk User • Bug Fix: Taker Config Feeder displaying incorrect information • Bug Fix: Monitoring page getting stuck after clicking Dividends Completed Jobs
10/28/2023 UTC	v1.0.2	• Enhancement: Text Style, Sidebar, and Filtrations • Enhancement: Hide components and columns that are no longer supported (Exposure Multiplier, Asset Class Group and Markets) • Enhancement: Detailed leg report with Total USD • Enhancement: Action Scheduler Wizard • Enhancement: Color Indicator under Alerts Status Page • Enhancement: Redesigned Risk Account Selection for Risk Users • Enhancement: Edited Values Highlights • Bug Fix: Restart Email for Brokers • Bug Fix: UI crashes due to Popovers • Bug Fix: Password Reset Page
10/21/2023 UTC	v1.0.1	• New Feature: Trading Risk UI is now available for Broker-Clients • New Feature: Added "Delete" confirmation to all components when deleting an item or settings • Enhancement: Redesigned Risk Account Selection for Risk Users • Bug Fix: Closing Position from Trading Risk UI using Taker Symbol

10/14/2023 UTC	v1.0.0	• New Feature: New Report: Detailed Leg Report • New Feature: Broker-Read-Only Access • New Feature: Default Maker Column in Liquidity Model for newly added symbol • Enhancement: Liquidity model is no longer allowing Bbook as a Maker • Enhancement: Renamed "Maker Sessions" as "Makers" • Enhancement: Maker Scaling is no longer allowing Security as a Symbol • Enhancement: Auto re-sizing of monitoring logs windows • Enhancement: Added scrollbar within monitoring logs folder • Bug Fix: Fixed "Save All" action • Bug Fix: Fixed book construction mode selection • Bug Fix: Trading Platform - One Click Trading

Workspace

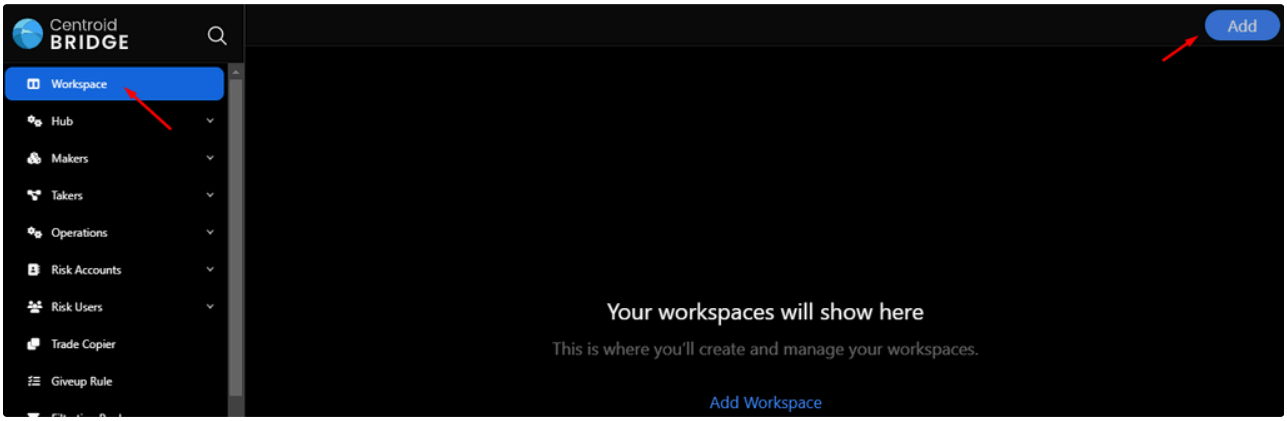
Overview

Workspaces are virtual environments that provide users with a personalized and organized area to manage and interact with content. Users can customize their Workspaces by arranging relevant modules and components to streamline their workflow. This feature enhances efficiency by allowing users to centralize resources and tailor their workspace to suit individual preferences and tasks.

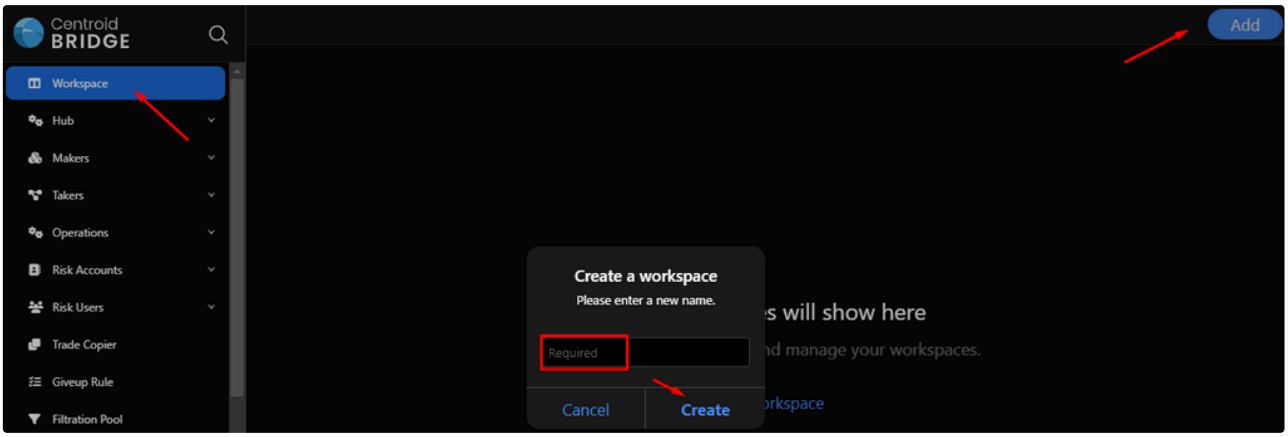
Creating a Workspace

To create a Workspace

1. Locate **Workspace** and then click the **"Add"** button



2. Fill out the required field **"Workspace Name"**

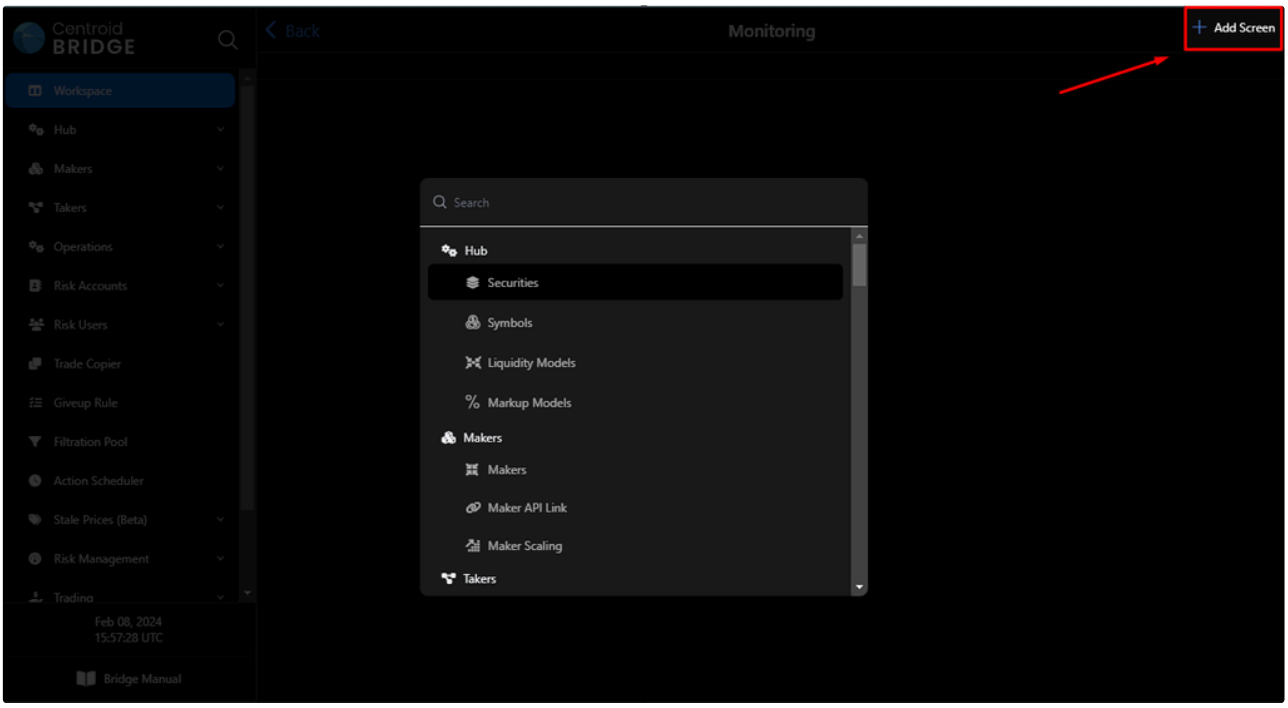


3. Click **"Create"** to create the workspace

Arranging your Workspace

To arrange your Workspace

1. Click "**Add Screen**" and select the components that you want to display in your workspace.

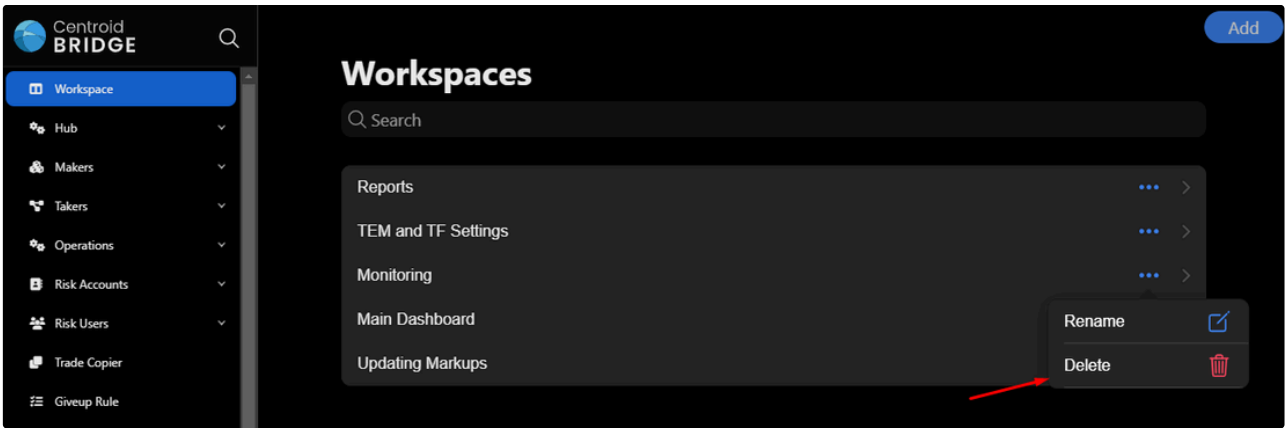


Notes: Workspace can allow up to 4 screens or components

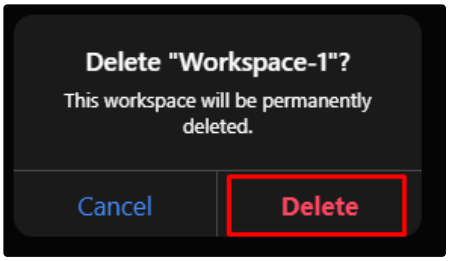
Deleting a Workspace

To delete a Workspace

1. Click on the **"Delete"** option available

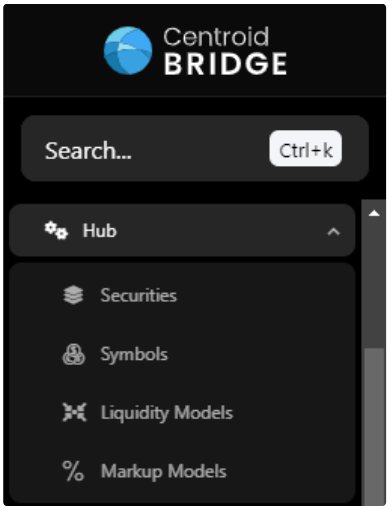


2. Click the "**Delete"** button to confirm the deletion.



Hub

The Hub Module allows to create and configure Security groups, core Symbols, Aggregation Modes, and Markup Profiles. Upon clicking the “Hub” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.



Securities

Overview

Security is a grouping of symbols that can be categorized into different types such as FX, CFD, Futures, Equities, and Crypto.

test caption for metadata purposes

As seen above, the Securities component displays all configured Securities in the Centroid Bridge.

Within this module, you have the capability to:

- **Update Descriptions:** Modify the description of a specific security or multi-update descriptions for multiple securities.
- **Sort Columns:** Arrange certain columns in ascending or descending order by clicking the field name.
- **Export Securities:** Save the list of securities to an Excel file or CSV file.

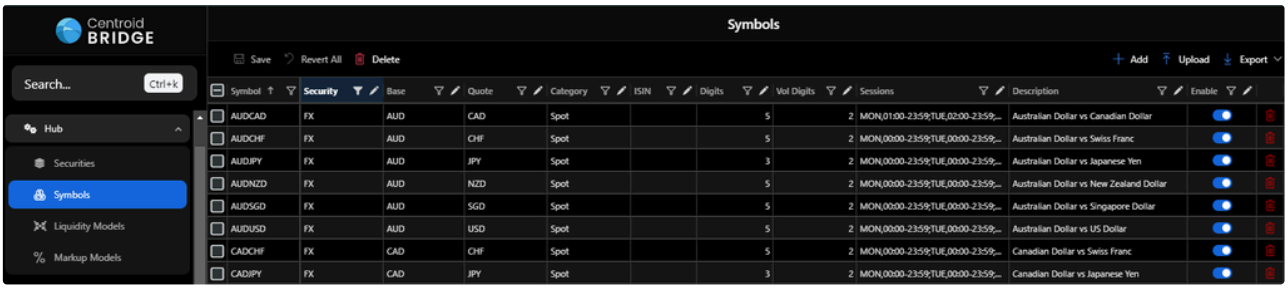
Field	Editable	Possible Values	Description
Security	No	FX, CFD, CRYPTO, EQUITIES, FUTURES	The name of the Security as defined in the Centroid Bridge
Description	Yes	Foreign Exchange Market, Contract For Differences, Cryptocurrencies, Stocks, Futures Markets	A short description for reference purposes

Symbols

Overview

In this component, you can include symbols for trading on the Centroid Bridge which is explained as the top level here. Any modification made to the symbol at this main level will impact the symbol at all the other levels or components.

All Symbols defined in the Centroid Bridge and their respective configuration settings are displayed in this component.



Within this module, you have the capability to:

- **Add a New Symbol:** Use the new Symbol wizard to add a new Symbol.
- **Add or Update Symbols:** Upload a bulk of Symbols from an Excel file or CSV file.
- **Filter and Look Up Symbols:** Search for specific Symbols by different lookup criteria to ease configuration.
- **Configure Bulk Symbols:** Edit a bulk of Symbols by clicking the Edit icon for all or a group of filtered Symbols.
- **Sort Columns:** Arrange certain columns in ascending or descending order by clicking the field name.
- **Enable/Disable Symbols:** Manage the active status of particular Symbol(s) in the Centroid Bridge.
- **Configure Per Symbol:** Edit and configure specific fields on a per Symbol basis.
- **Delete a Symbol:** Remove a Symbol from the system.
- **Multi-delete Symbols**: Select multiple symbols and delete them simultaneously.
- **Export Symbols:** Save the list of Symbols to an Excel file or CSV file.

Field	Editable	Possible Values	Description
Symbol	No	*EURUSD, XAUUSD, AAPL, BTCUSD*	The name of the Symbol to be added and used. **Note:** You may have multiple suffixes on your Taker/MT4/MT5. However, while creating a symbol, the only focus is to create the base symbols. So you will only be adding Plain Symbols in this window. Suffix can be added later with the help of Taker Feed component.
Security	No	*FX, CFD, EQUITIES*	The Security into which the underlying Symbol is grouped.
Base	Yes	*EUR, GBP, DAX*	The base currency of the Symbol. • For FX, it's the first currency of the pair. • For non-FX such as CFDs, it's the full name of the Symbol.

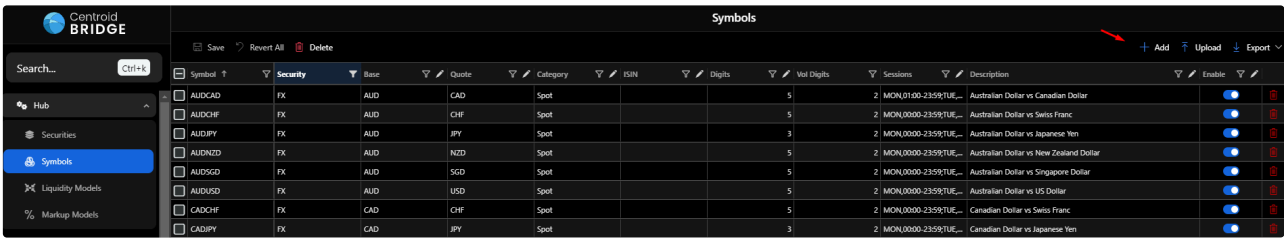
Quote	Yes	*USD, EUR, GBP*	The quote currency by which the Symbol is denominated. • For FX, it's the second currency of the pair. • For CFDs, it's the currency in which the Symbol is quoted. (e.g., FTSE is quoted in GBP)
Category	Yes	*Spot, Futures*	Represents another level of categorization to further categorize a Symbol.
ISIN	Yes	*US0378331005*	The ISIN code of the underlying instrument. For reference purposes only and is not mandatory. (e.g., Symbol: AAPL, ISIN: US0378331005)
Digits	Yes	*5*	The number of decimals in the quoted price of the underlying Symbol.
Vol Digits	Yes	2	The number of decimals allowed to be traded of the underlying Symbol. Default value is **2**. This allows up to **0.01** volume of trade. To allow **0.00000001** volume of trades for Crypto symbols, Vol Digits must be updated to **8** and all the min size and step settings must also be adjusted on Taker Execution Model and Maker Symbol settings with consideration to allowed ABook and BBook minimum volume. **Note:** Vol Digits setting can only be changed by Centroid Support Team.
Sessions	Yes	*MON,00:00-23:59*	Defines the time when the symbol is **Active** i.e. sending prices to the Taker and receiving the trades from the Taker. All days of the week should be included and separated by a semicolon "**;**" along with the time interval during the day. 00:00-00:00 represents a closure during a particular day.
Description	Yes		A short description for reference. This will also be used as the default description values for all the other components such as Liquidity Models, Markup Models, Makers, Taker Feeds, and Taker Execution Models. The description column can also be utilized to write rules whenever creating Synthetic Symbols.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Symbol is enabled or disabled. **Note:** Disabling a Symbol at this level implies that the Symbol will be disabled at all levels throughout the Centroid Bridge, hence no quoting or trading on that Symbol.

Adding a Symbol

To add a New Symbol from the UI

You can add a new Symbol any time you wish to introduce a new product to be traded via the Centroid Bridge. There are two ways of creating a Symbol, either by creating one Symbol at a time from the UI or by bulk creation i.e. uploading a list of Symbols from an Excel file or CSV format.

1. Click the "**Add"** button to create a symbol.



2. Fill out the Wizard with all relevant information and click the **"Submit"** button.

Uploading Symbols

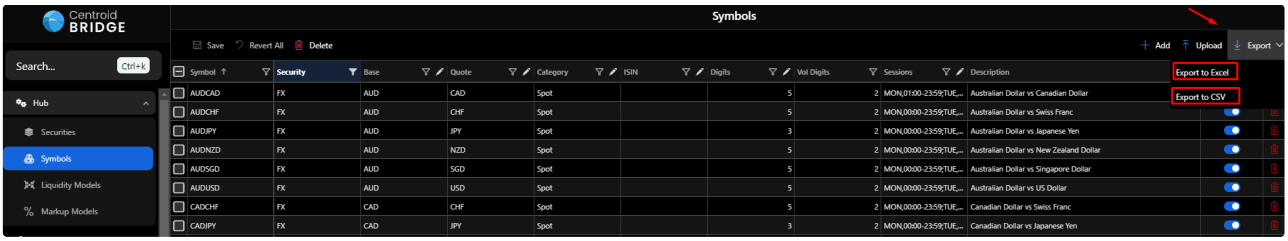
To upload Symbols from an Excel Sheet or CSV

An alternative method of creating Symbols from the UI is available which allows creating a bulk of Symbols all at once by uploading multiple Symbols from an Excel or CSV file format.

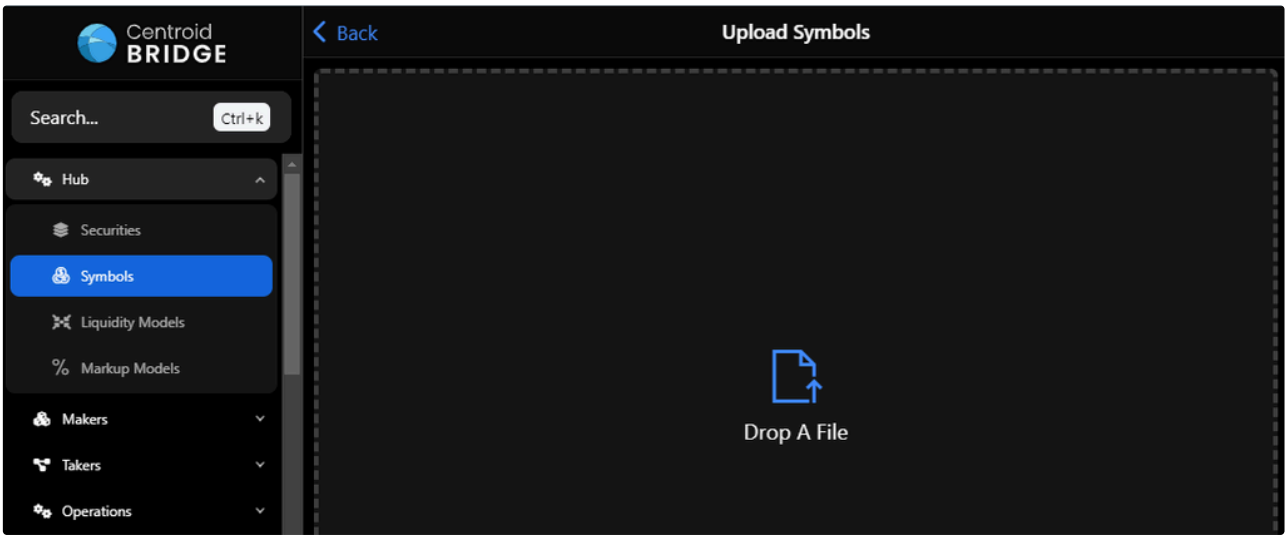
Note: *Please make sure to export the file first. Once you have the format, you will work on the same file and upload it with the same format to avoid errors. Kindly also avoid utilizing special characters.*

1. To get the correct format of the file or export your symbol settings list (via Excel or CSV), click the "**Export**" button and proceed to make the changes.

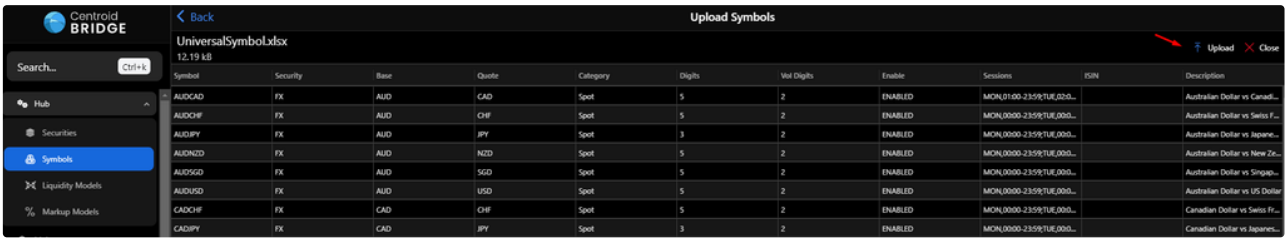
2. Click the "**Upload**" button if you want to upload multiple new symbols or to update existing symbols.



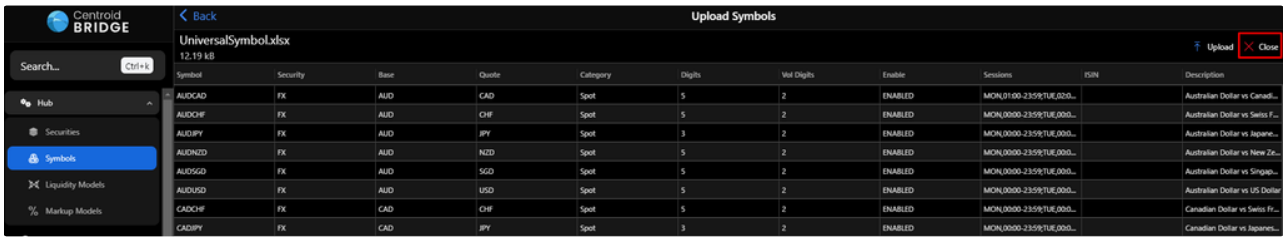
3. Click the "**Drop A File**" to browse and select the file or you can just easily drop the Excel or CSV file into the designated area.



4. Click the **"Upload"** button to submit and upload the file.



5. You also have the option to discard the bulk upload by clicking the **"Close"** Button.



Note: When using the bulk operation to upload all the symbols, you can perform the following or possible scenarios:

Case 1: Uploading a file to only add new symbols
- Export the Symbol file
- Remove all the existing symbols
- Add new symbols then upload the file

Case 2: Uploading a file to add new symbols and not modifying any existing symbols
- Export the Symbol file
- Do not remove the existing symbols
- Add the new symbols then upload the file

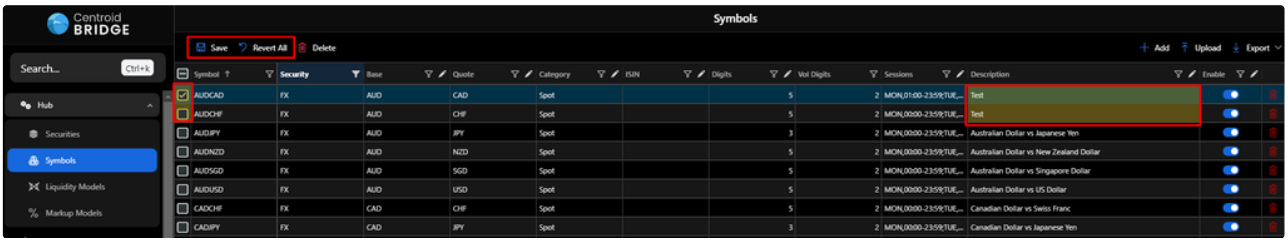
Case 3: Uploading a file to only modify existing symbols
- Export the file
- Modify the values then upload the file

Case 4: Uploading a file to add new symbols and modify existing symbols
- Export the Symbol file
- Modify the existing symbols
- Add new symbols then upload the file

Modifying a Symbol

To configure or modify an existing Symbol's configuration

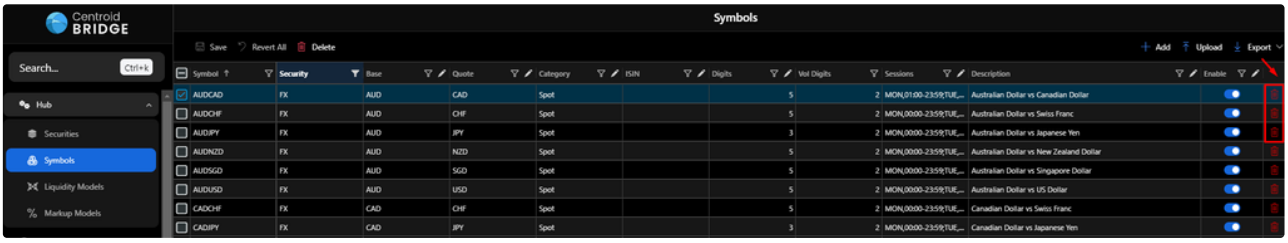
1. Double-click the editable field next to the desired Symbol. The rows configured are flagged by a brown-highlighted check box on the left and the edited field(s) are also highlighted in brown.
2. Click the **"Save"** button on the top left to deploy the changes or **"Revert All"** to discard the changes.
3. Another option to modify the Symbol(s) is mentioned on Uploading Symbols.

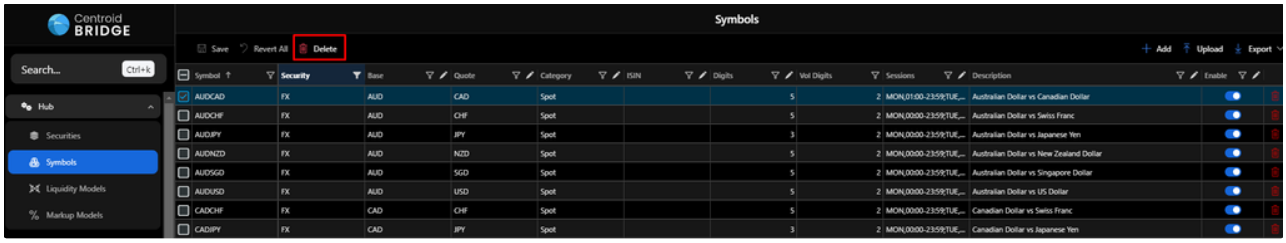


Deleting a Symbol

To delete an existing Symbol

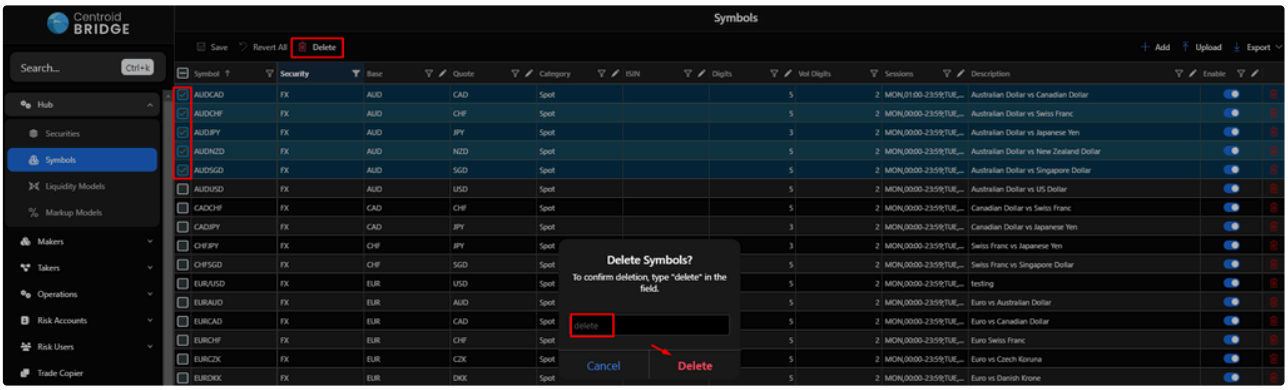
1. Click the **"Delete"** icon next to the desired Symbol or you may also tick the check box beside the symbol and click the **"Delete"** button on the top left.





To delete an existing Symbol in bulk

1. Tick the check box next to the specific symbol(s) you wish to delete and it will be highlighted. Multi-selecting symbols can also be done by ticking the check box on the top left of the Symbol column.
2. Click the **"Delete"** button to bulk delete.
3. Enter **"delete"** in the text field on the confirmation pop-up message and click the **"Delete"** button to confirm the deletion.


Centroid BRIDGE
Search...
Ctrl+k
Hub
Securities
Symbols
Liquidity Models
Markup Models
Makers
Takers
Operations
Risk Accounts
Risk Users
Trade Copier
Symbols
Save
Revert All
Delete
Add
Upload
Export
Symbol
Security
Base
Quote
Category
ISIN
Digits
Vol Digits
Sessions
Description
Enable
AUDCAD FX AUD CAD Spot 5 2 MON,01:00-23:59;TUE,... Australian Dollar vs Canadian Dollar
AUDCHF FX AUD CHF Spot 5 2 MON,00:00-23:59;TUE,... Australian Dollar vs Swiss Franc
AUDJPY FX AUD JPY Spot 3 2 MON,00:00-23:59;TUE,... Australian Dollar vs Japanese Yen
AUDNZD FX AUD NZD Spot 5 2 MON,00:00-23:59;TUE,... Australian Dollar vs New Zealand Dollar
AUDSGD FX AUD SGD Spot 5 2 MON,00:00-23:59;TUE,... Australian Dollar vs Singapore Dollar
AUDUSD FX AUD USD Spot 5 2 MON,00:00-23:59;TUE,... Australian Dollar vs US Dollar
CADCHF FX CAD CHF Spot 5 2 MON,00:00-23:59;TUE,... Canadian Dollar vs Swiss Franc
CADJPY FX CAD JPY Spot 3 2 MON,00:00-23:59;TUE,... Canadian Dollar vs Japanese Yen
CHFJPY FX CHF JPY Spot 3 2 MON,00:00-23:59;TUE,... Swiss Franc vs Japanese Yen
CHFSGD FX CHF SGD Spot 5 2 MON,00:00-23:59;TUE,... Swiss Franc vs Singapore Dollar
EURAUSD FX EUR USD Spot 5 2 MON,00:00-23:59;TUE,... testing
EURAUD FX EUR AUD Spot 5 2 MON,00:00-23:59;TUE,... Euro vs Australian Dollar
EURCAD FX EUR CAD Spot 5 2 MON,00:00-23:59;TUE,... Euro vs Canadian Dollar
EURCHF FX EUR CHF Spot 5 2 MON,00:00-23:59;TUE,... Euro Swiss Franc
EURCZK FX EUR CZK Spot 5 2 MON,00:00-23:59;TUE,... Euro vs Czech Koruna
EURDKK FX EUR DKK Spot 5 2 MON,00:00-23:59;TUE,... Euro vs Danish Krone
Delete Symbols?
To confirm deletion, type "delete" in the field.
delete
Cancel
Delete

Synthetic Symbols

Overview

The Synthetic Symbols offer the ability to create and price new products by combining one or multiple Symbols as well as using complex formulas to price the new Symbols. For instance, you can derive the price of Gold in KG out of the price of XAUUSD by setting a multiplier of 32.15. Similarly, you can make an Exotic FX Symbol by combining two currency pairs. The Exotic Symbol starts at the level of the Liquidity Model and follows the same flow other Symbols follow in terms of Markup Models which are applicable at the level of the Taker (Feed and Execution).

Format and Usage

The two main used operators are division and multiplication involving source symbols and numbers and should be written as follows:

- **Division:** @
- **Multiplication:** *

Additionally, you may use a variety of formulas as follows:

- **SQRT**– Square Root (1 parameter)
- **POW** – Power (2 parameters) - POW(x^y)
- **AVG** – Average (n parameters) - AVG(a,b,c,…)
- **SUM** – Sum (n parameters) - SUM(a,b,c,…)
- **ABS** – Absolute Value (1 parameter) – ABS(x)

All formulas need to be written between # # where b refers to the BID price and a to the ASK price, and can be applied differently as follows:

1. One-sided formula: #b=x@y# This obtains the BID price by dividing x BID price by y BID price and does the same to the ASK price.

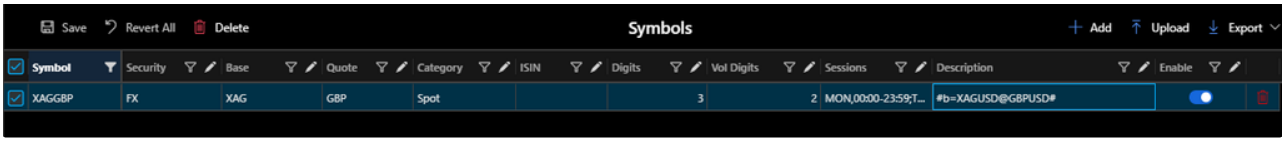
2. Two sided formula: #b=x*y#a=(x*y)+0.0001# This obtains the BID price by dividing x BID price by y BID price. As for the ASK price, it divides x BID price by y BID price and adds 0.0001 to it.

3. In terms of formula: #b=x*y*z#a=_b_+0.05# This obtains the BID price by multiplying x and y and z. As for the ASK price, the _ _ indicates that the BID price of the calculated Synthetic Symbol is taken and 0.05 is getting added to it, hence we increase the ASK price by 0.05 ensuring that spread constantly stands at 0.05

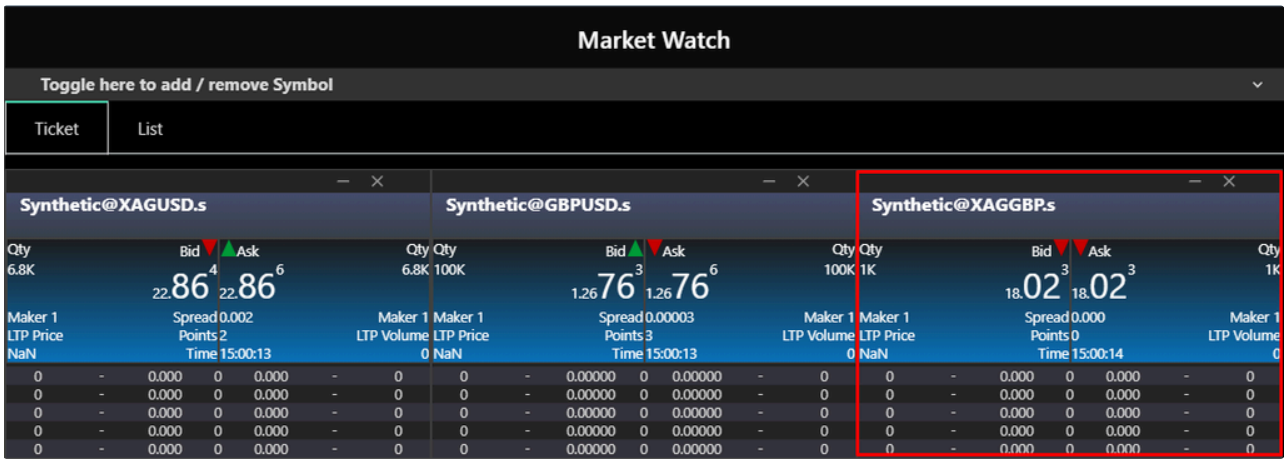
Note: x, y, and z in the above example are the source symbols.

Examples

1. Create XAGGBP Synthetic Symbol: This is done by simply creating the Synthetic Symbol XAGGBP as a Universal Symbol and then combining Symbols XAGUSD and GBPUSD where XAGUSD is divided by GBPUSD, by writing the formula in the description as follows:

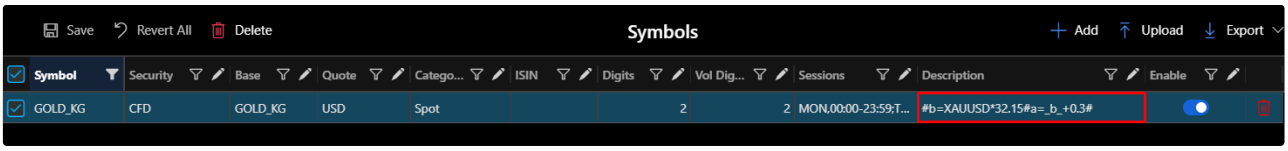


In the above example, we only applied the formula on the BID price which automatically simulates the same behavior on the ASK price. Once the formula has been written in the correct format and saved, the newly added symbol will start pricing instantly.

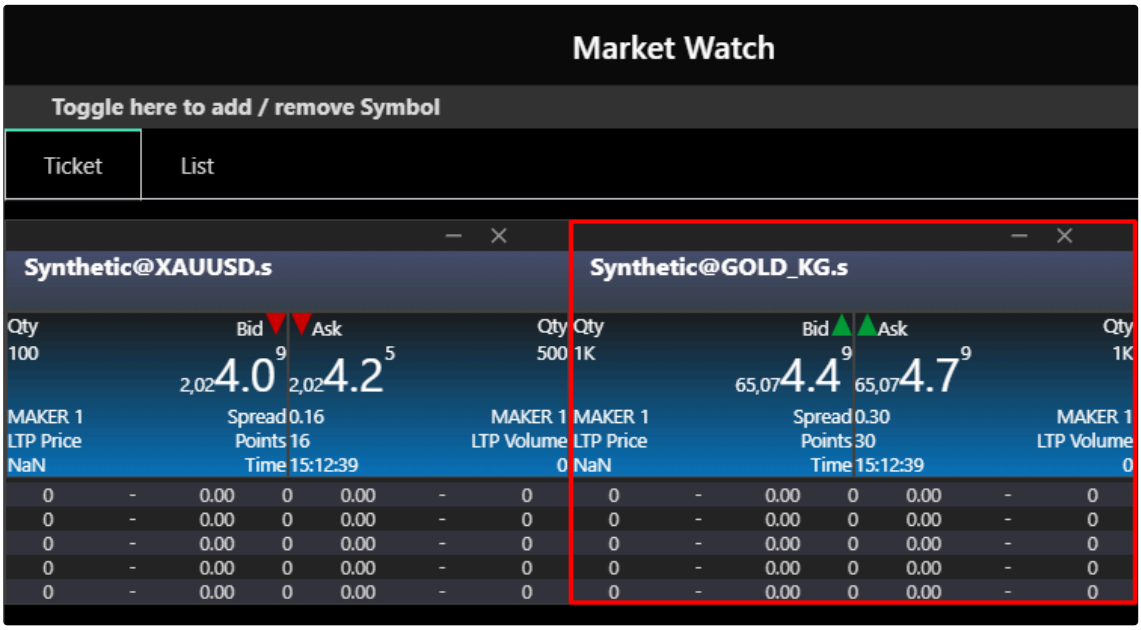


2. Create GOLD_KG Synthetic Symbol:

This is done by simply creating the Synthetic Symbol GOLD_KG as a Universal Symbol and then multiplying the source symbol XAUUSD by 32.15.



In the above example, we obtained the BID price by multiplying the BID price of the source symbol XAUUSD by 32.15 to convert from troy ounce to Kilo. As for the ASK price, we just used the same BID price we got and added 0.3 which fixed the spread at 0.3.



Notes:

- Synthetic Symbols can be used only for pricing and B Book execution at this stage
- You may increase the default volume of the Synthetic Symbols by using the Book Construction feature at the level of the Liquidity Model

Liquidity Models

Overview

We can picture the Liquidity Model as pools where one or more Liquidity Providers (Makers) come together. The Makers are the participants in this liquidity pool which we call the Liquidity Model and are responsible for sending prices and executing the orders.

The Liquidity Model can be a standalone model if it only contains one Maker (LP) or can be aggregated in case it contains more than one Maker (LP). In the case of aggregation, Centroid Bridge will advertise the top of the book or the best price and target the Maker that offers it during the execution. The selection of Liquidity Provider(s) or Maker(s) within the model can be configured on a per symbol basis offering a great degree of flexibility.

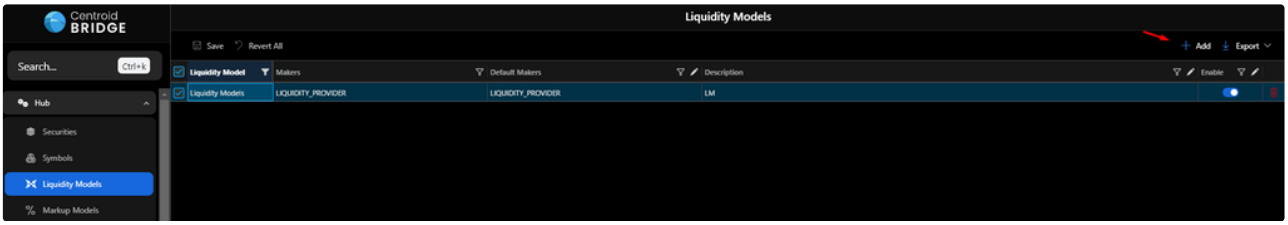
Within this module, you have the capability to:

- **Add a Liquidity Model:** Incorporate a new Liquidity Model.
- **Filter Liquidity Models:** Categorize Liquidity Models based on different criteria.
- **Enable/Disable Liquidity Models:** Manage the active status of the Liquidity Models in the Centroid Bridge.
- **Configure Global Liquidity Model:** Adjust the settings at a global level by enabling/disabling or adding a description.
- **Delete a Liquidity Model:** Remove an existing Liquidity Model.
- **Export a Liquidity Model:** Save the list of Liquidity Models to an Excel or CSV file.
- **Filter and Lookup Symbol Settings:** Search for Symbol settings by different lookup criteria to ease configuration.
- **Configure Bulk Symbols:** Click the “Edit” icon to modify bulk Symbols may it be all Symbols or a group of filtered Symbols.
- **Configure Symbol Settings (Pricing and Trading):** Fine-tune the settings of a Symbol within a Liquidity Model at the level of each Symbol.
- **Export Symbol Settings of a Particular Liquidity Model:** Save the configured Symbol settings of a specific Liquidity Model to an Excel or CSV file.
- **Upload Excel or CSV File:** Update or change bulk configurations of an existing Liquidity Model by uploading an Excel or CSV file.

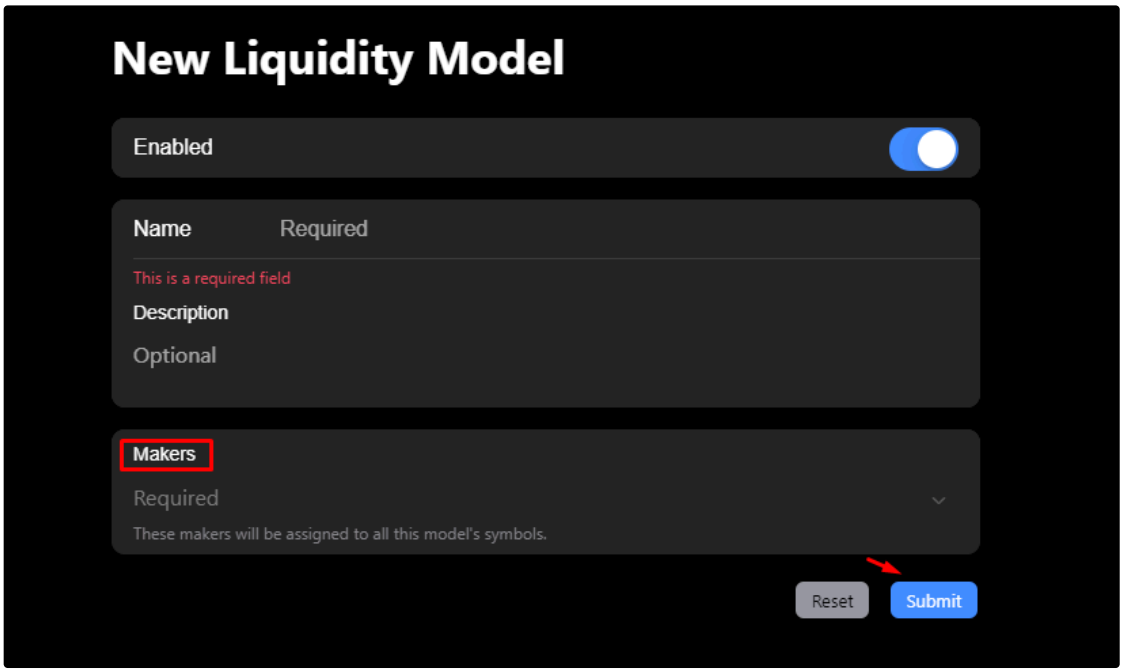
Creating a Liquidity Model

To create a Liquidity Model

1. Click the “**Hub”** module.
2. Click the “**Liquidity Models”** component.
3. Click the **“Add”** button to create a new Liquidity Model.



4. Fill out the wizard with all relevant information. You may refer to the field descriptions hereafter.
5. Click the **“Submit”** button to submit the changes.

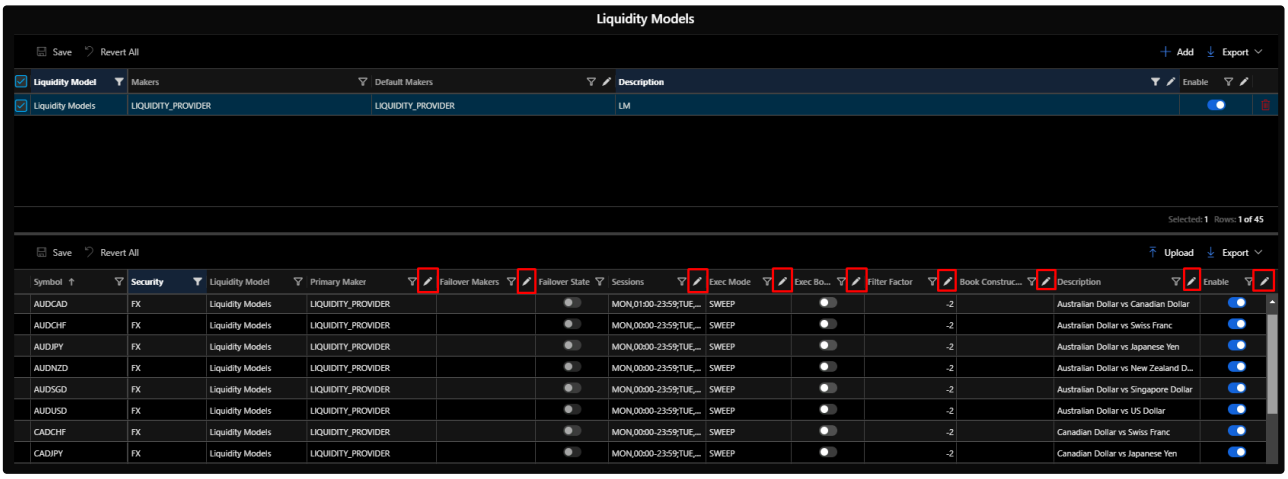


Field	Possible Values	Description
Enabled		This will determine whether the newly created Liquidity Model should be activated or deactivated upon creation.
Name	*MakerName_LM*	This is intended to recognize the Liquidity Model and determine the particular Maker being utilized in this Liquidity Model.
Description		A short description for reference purposes only.
Makers	*Liquidity_Provider -1*	In this process, you will designate a specific Maker for the newly created Liquidity Model. Essentially, this Liquidity Model will be responsible for interacting with the assigned Maker.

Configuring a Liquidity Model

To configure or modify a newly added or existing Liquidity Model on a per symbol basis

1. Click the little arrow on the Symbol column to have it sorted in an alphabetical order.
2. Configure the Liquidity Model by modifying the editable fields. All editable fields are represented by a **"Pen"** icon.
3. Click the **"Save"** button on the top left to apply the changes.
4. Click the **"Revert All"** button if you want to revert to the previous values.



Field	Editable	Possible Values	Description
Symbol	No	*EURUSD, XAUUSD*	The name of the Symbol to be configured as defined in Symbols.
Security	No	*FX, CFD, EQUITIES*	The Security into which the Symbol is grouped.
Liquidity Model	No	*Aggregated_LM*	The current Liquidity Model being configured.
Primary Maker	Yes	*PB1, Maker_1*	The Primary Maker or Liquidity Provider to source liquidity from by streaming quotes into the Liquidity Model and executing any flow routed through that Liquidity Model. You can select multiple Makers in case you wish to aggregate prices from different Makers to construct an aggregated liquidity book. The book is ordered by best prices on top. As for Orders, it will be routed to the Maker providing the best price at the time of execution.
Failover Makers	Yes	*Maker_2*	The Failover Makers to source liquidity in case of the Primary Maker stopped pricing. This column will only work if stated in Symbols Profile and Stale Rules.
Sessions	Yes	*MON,00:00-23:59*	Defines the time of the day during which the Liquidity Model will be available for trading. All days of the week should be included and separated by a semicolon “;” along with the time interval during the day. 00:00-00:00 represents a closure during a particular day.
Exec Mode	Yes	*SWEEP, SINGLE_IOC, SINGLE_FOK*	Defines the execution modes of the Symbol for all Orders routed via Liquidity Model. • **SWEEP**: the Orders will be executed by sweeping the book of quotes constructed by the Maker(s) making up that Liquidity Model (unless indicated otherwise in the Exec Boost parameter). • **SINGLE_IOC**: only one quote of the book will be targeted for execution even if it does not satisfy the full amount, hence may result in a partial fill. • **SINGLE_FOK** only one quote of the book will be targeted for execution provided that this quote can fill the requested volume entirely, hence no partial fills.

Exec Boost	Yes	*Enabled, Disabled*	Allows to boost the Order by sending the full requested amount at the TOB, rather than splitting it into Legs based on the available Liquidity Book. • If Enabled, the Order will be sent in full to the Maker at the TOB, irrespective of the available volume. • If Disabled, the Order will be executed by splitting it into different Legs if needed based on the available Liquidity Book. **Note:** For B Book Orders, the Order will be fully filled at TOB price if Exec Boost is enabled.
Filter Factor	Yes	*-2, -1, 10*	Indicates whether a filtration is applied to prices coming into the Liquidity Model or not. If filtration is enabled, it dictates how the filtration is applied as explained below: • (**-2**) means that no price filtration is applied to the Liquidity Model, hence all prices are allowed in. • (**-1**) means that filtration is being applied using the default parameters applied in the relevant Filtration Pool. • (Other positive value) means that this value is used as a Factor which would override the one defined in the Filtration Pool.
Book Construction	Yes		Allows to construct multi-layer books at the level of each Symbol and set markups at each layer. **Note:** Refer to the sub-section hereafter wherein construction of books at the level of each Symbol are discussed in-depth.
Description	Yes		A short description for reference purposes that is copied automatically from the description defined in Symbols.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Liquidity Model is enabled or disabled.

Adding a Failover Maker

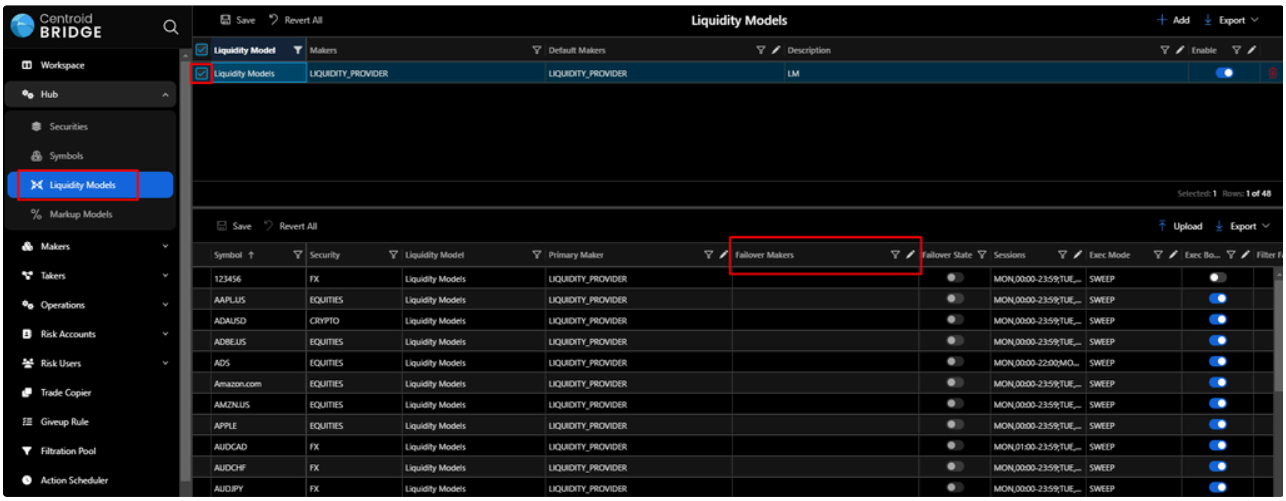
To add a Failover Maker

1. Click the "**Hub**" module.

2. Click the "**Liquidity Models**" component.

3. Select the desired **"Liquidity Model**" you wish to add a Failover Maker to it.

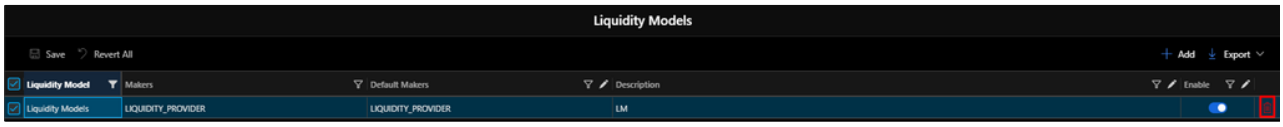
4. Add one or more Makers on the **"Failover Makers"** column

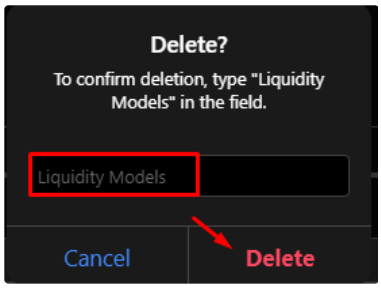


Deleting a Liquidity Model

To delete a Liquidity Model

1. Click the **"Delete"** icon next to the desired Liquidity Model.
2. Enter the Liquidity Model name in the text field on the confirmation pop-up window and click the **"Delete"** button to confirm the deletion.

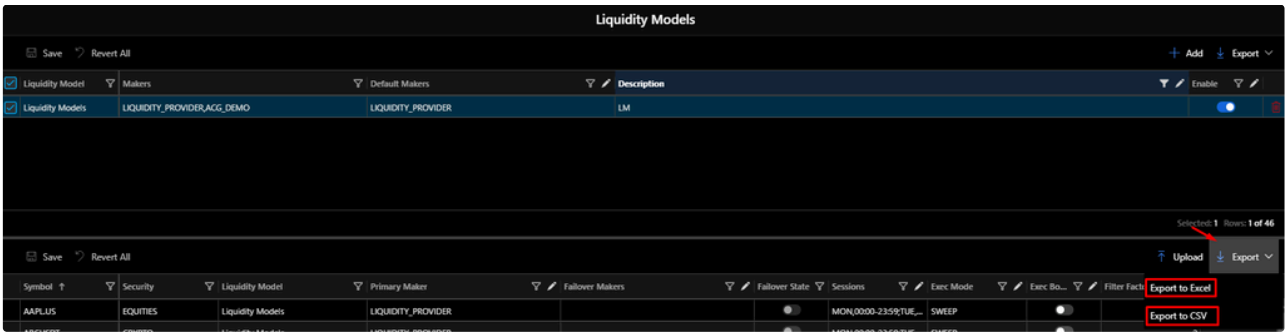




Exporting a Liquidity Model

To export a Liquidity Model

1. Select the desired liquidity model from the list.
2. Tick the checkbox to select a Liquidity Model.
3. Click the "**Export"** button and select "**Export to Excel**" or "**Export to CSV**".

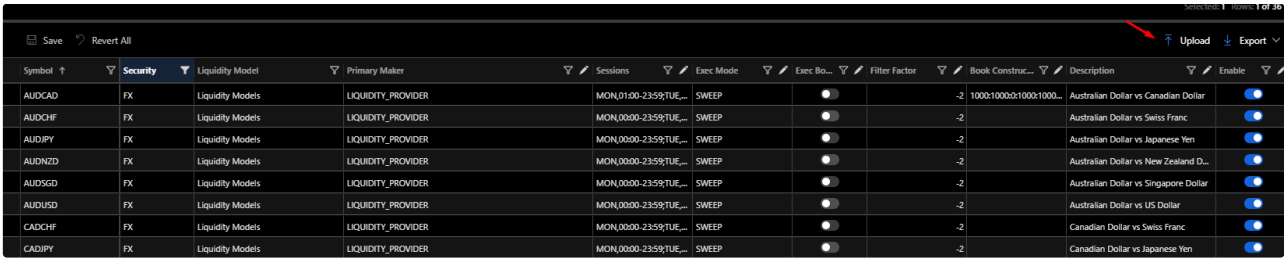


Uploading a Liquidity Model

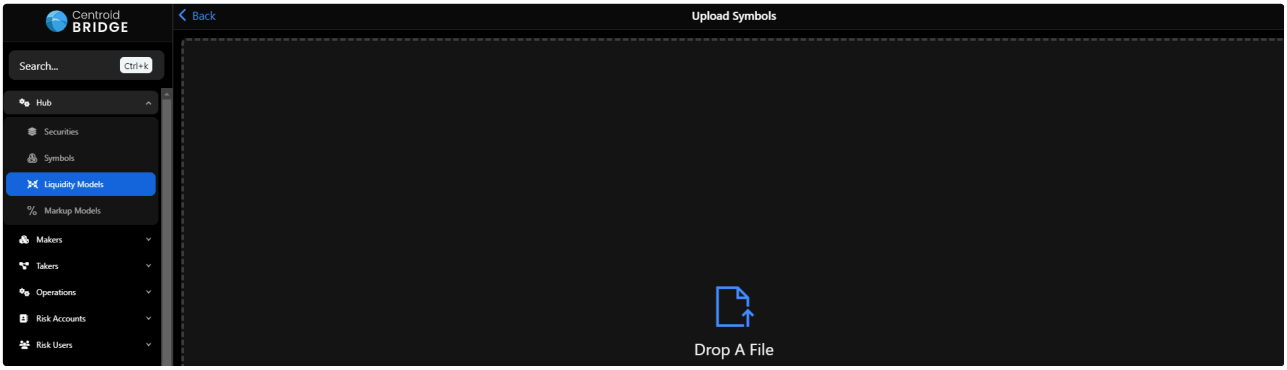
To upload a Liquidity Model symbol settings

1. To get the correct format, you need to use and follow the Exporting a Liquidity Model

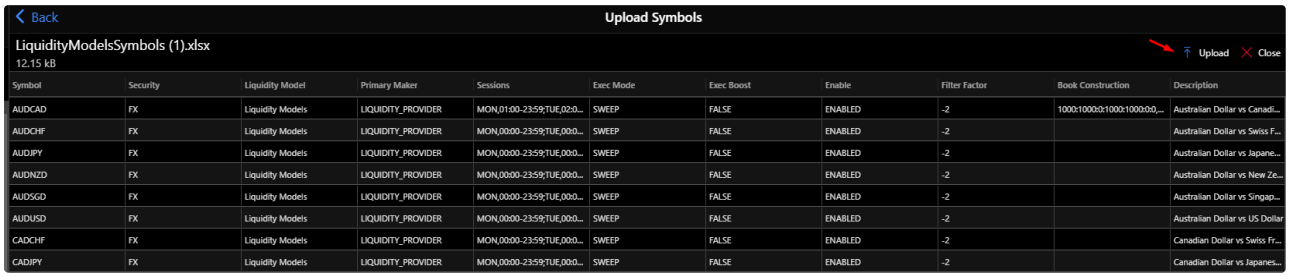
2. Click the **"Upload"** button.



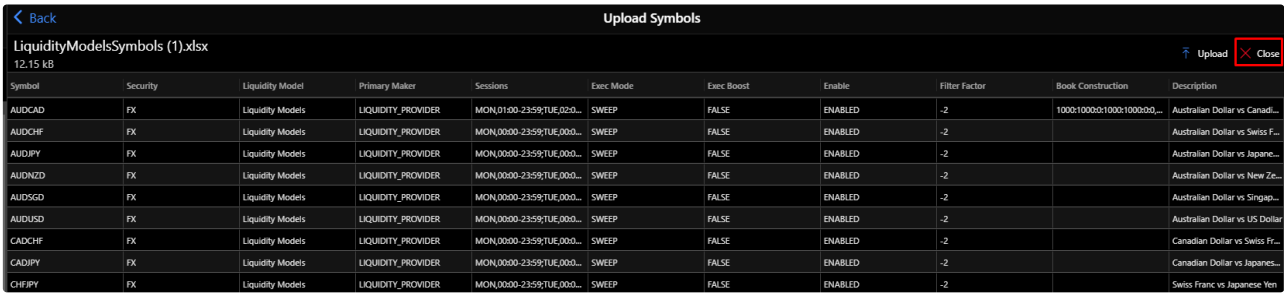
3. Click the "**Drop A File**" to browse and select the file or you can just easily drop the Excel or CSV file into the designated area.



4. To successfully upload the Liquidity Model values, click the **"Upload"** button.



5. You also have the option to discard the bulk upload by clicking the **"Close"** button.



Book Construction

The Book Construction is a feature within the Liquidity Model module that is configured at the level of individual Symbol through the Book Construction field. It allows the construction of a virtual liquidity book and customizes a multi-layered Liquidity Book based on own

preferences in addition to adding markups at the different levels of the constructed Liquidity Book.

Note: If you are creating a virtual book of 3 layers without any markup then it will be merged and streamed as one layer only. So to achieve a multi-layered virtual book, you need to add markups on each layer along with the volume.

When constructing a Book, the Centroid Bridge always takes the Top of the Book that is available to the Centroid Bridge whenever a new price update comes in. The Book is constructed using the artificial Volumes specified at each level in addition to the Top of the Book price to which the markup specified at each level is added. Volume can be randomized (using a range), fixed, or derived from the real Volume at the Top of the Book.

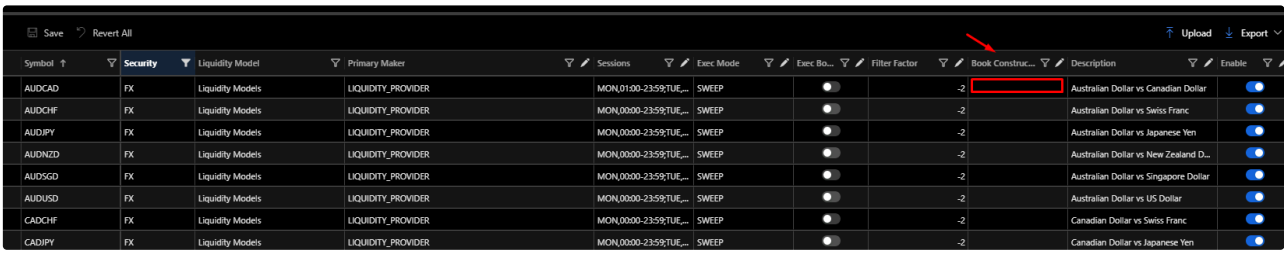
When it comes to execution, we have to differentiate A Book from B Book as follows:

A Book: For A Book execution, the entire Order will be sent to the Makers at the Top of the Book irrespective of the Volumes at the constructed Book.

B Book: For B Book execution, Orders will be filled based on the constructed Book by sweeping the Book from top to bottom until the Order is fully or partially filled. It's the same way the Centroid Bridge would execute any Order based on a real Liquidity Book.

Adding a Book Construction

1. Double-click the Book Construction field next to your desired Symbol.

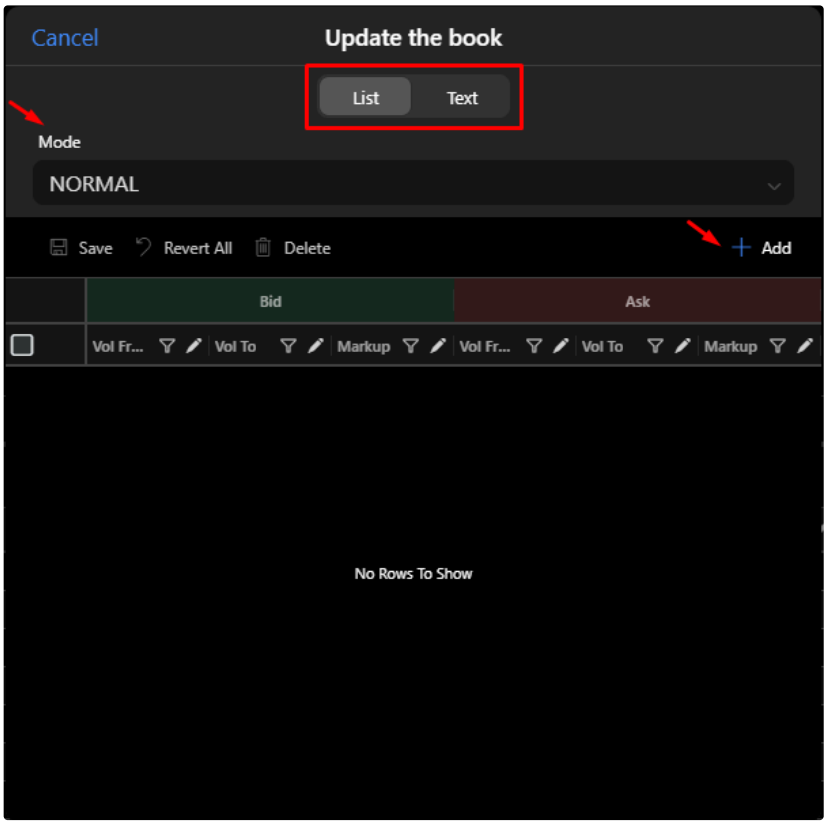


2. Select whether you like to create the Book through a List or Text.

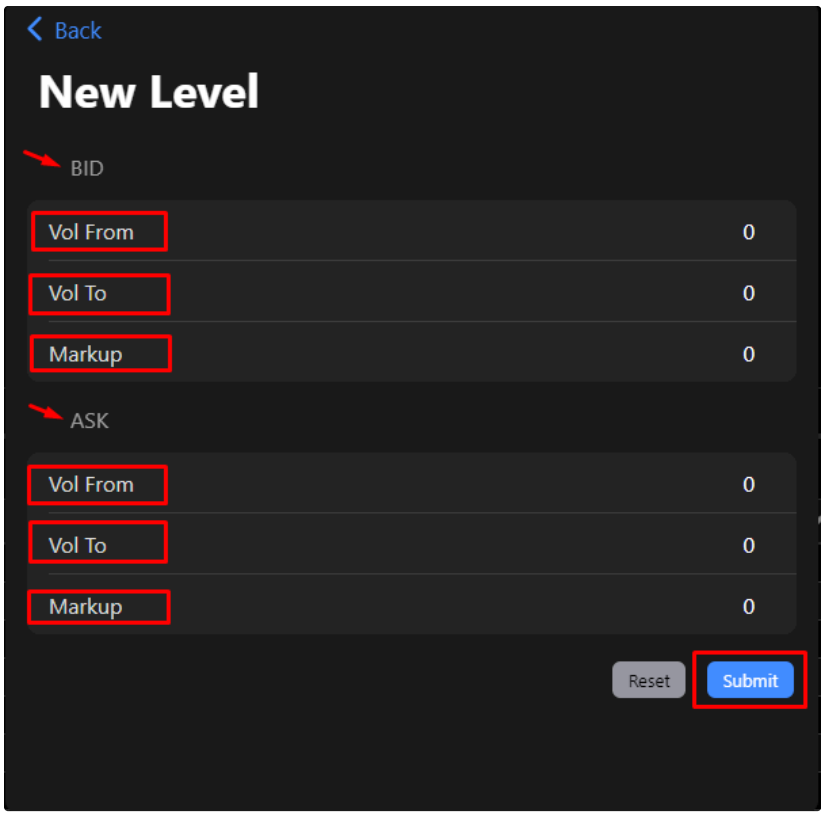
3. Select your preferred book construction mode as follows:

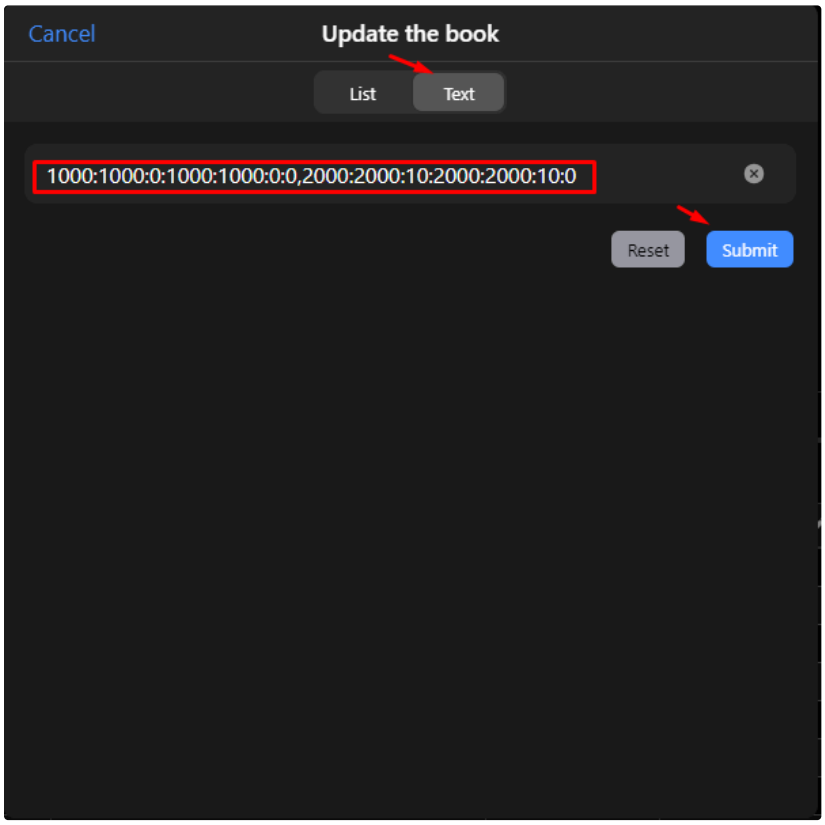
- **"Normal":** If you want to construct the Book based on the Bid and Ask.
- **"Midpoint":** if you want to construct the Book based on the midpoint price.

4. Click the **"Add"** button to start creating the Book Construction.



5. Fill out the wizard. Please note that the Markup shall be defined in points.

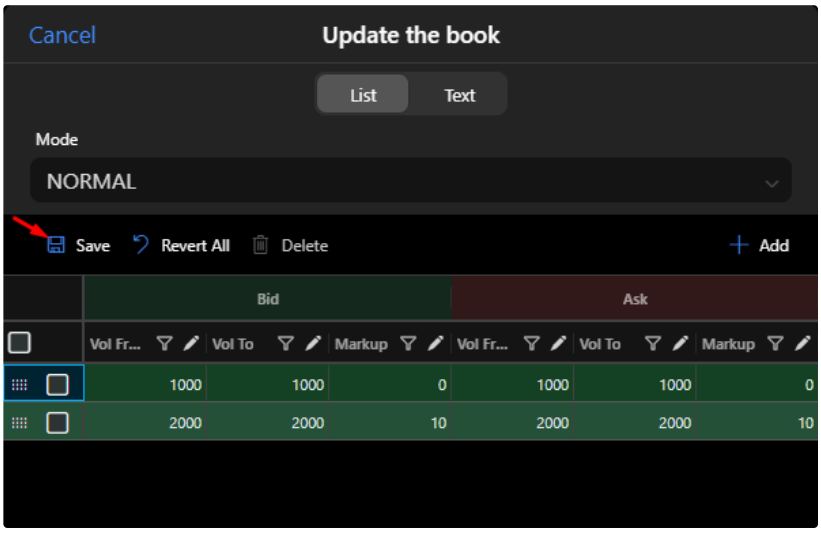




6. Click the “Submit” button once you have finalized the Book.

Note: *The above steps will be repeated depending on the number of levels the Book will be made of.*

7. Click the “**Save**” button to save the changes and finalize the Book Construction.



8. Click the **“Revert All”** button if you want to discard the changes made.

Book Construction

Overview

The Book Construction feature is an essential component of the Liquidity Model module, and its configuration takes place at the individual Symbol level through the dedicated Book Construction field. This feature facilitates the creation of a virtual liquidity book, enabling users to tailor a multi-layered Liquidity Book according to their specific preferences. Additionally, it provides the capability to incorporate markups at various levels within the constructed Liquidity Book. This means users have the flexibility to customize and enhance the liquidity representation based on their unique requirements, introducing personalized adjustments and markups at different tiers of the constructed Liquidity Book. When constructing a Book, the Centroid Bridge always takes the Top of the Book that is available to the Centroid Bridge

Constructing an Artificial Book

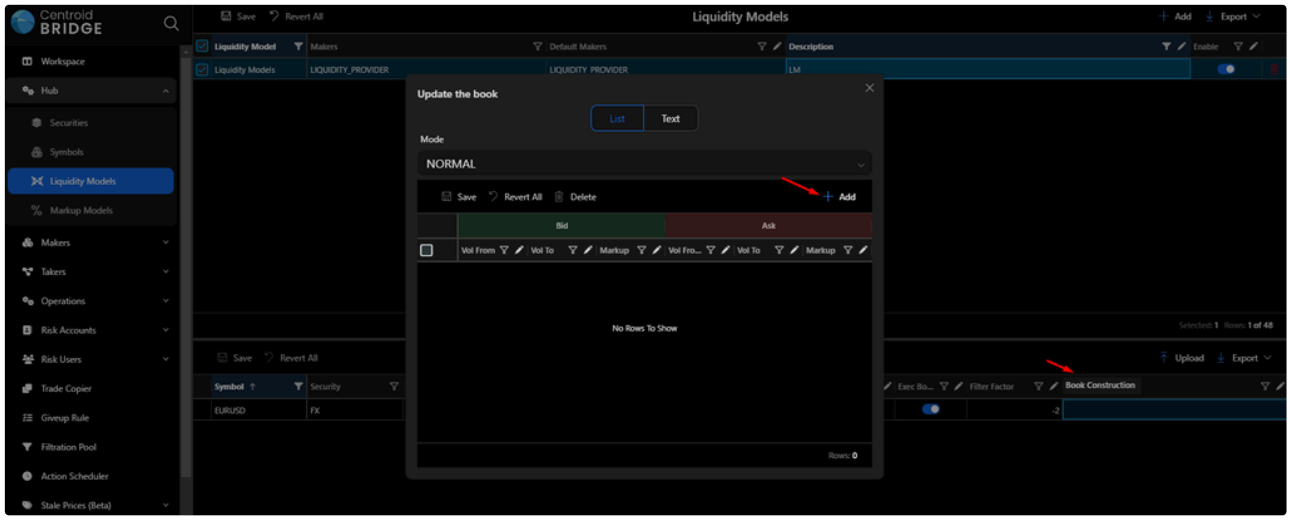
To construct an artificial book

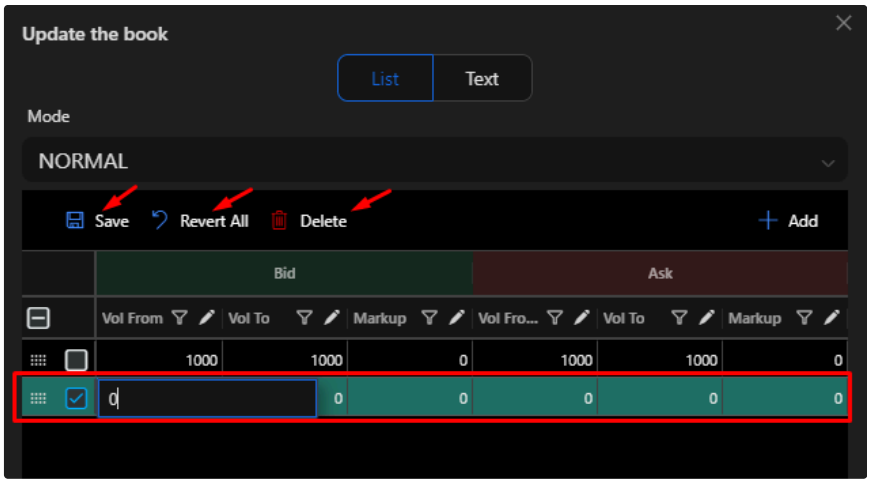
1. Click on **Hub > Liquidity Model > Desired Liquidity Model > Symbol > Book Construction > Add.**

2. . Select your preferred book construction **mode** as follows:

- **Normal:** The book is constructed using TOB Bid and TOB Ask Price from the maker.
- **Midpoint:** The book is constructed using the Midpoint price of the TOB Bid and Ask Price from the maker.

3. Configure the required values, You may refer to the field descriptions hereafter.

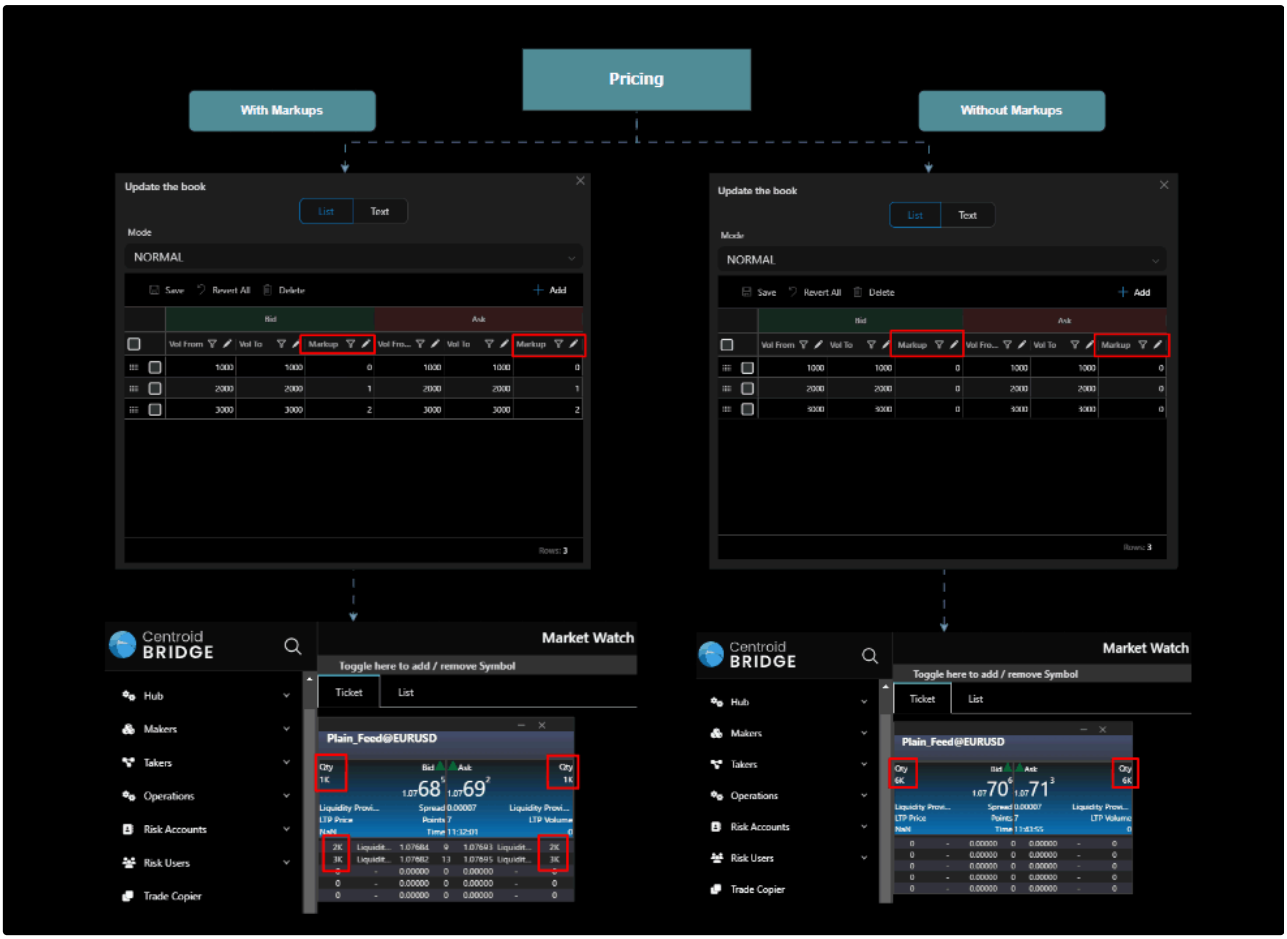




4. Click the **"Save"** button to save your configured values.

How pricing works when using the Book Construction

When constructing a Book, the Centroid Bridge always takes the Top of the Book that is available on the Centroid Bridge whenever a new price update comes in. The Book is constructed using the artificial Volumes specified at each level in addition to the Top of the Book price to which the markup specified at each level is added. Volume can be randomized (using a range), fixed, or derived from the real Volume at the Top of the Book.



Field	Possible Values	Description
Mode	*Normal, Midpoint*	Normal: The book is constructed using TOB Bid and TOB Ask Price from the maker. Midpoint: The book is constructed using the Midpoint price of the TOB Bid and Ask Price from the maker.
Bid Vol From	*1000,15000*	Clients can specify starting volume in the "Vol From" for Bid side
Bid Vol To	*1000,1500*	Clients can input the same volume in "Vol From" for a fixed range, or a different volume to establish a variable volume range for the Bid layer.
Markup	*0,10,15*	Markups can be added on each layer in points for Bid Volume
Ask Vol From	*1000,15000*	Clients can specify starting volume in the "Vol From" for Ask side
Ask Vol To	*1000,1500*	Clients can input the same volume in "Vol From" for a fixed range, or a different volume to establish a variable volume range for the Ask layer.

Markup	*0,10,15*	Markups can be added on each layer in points for Ask Volume

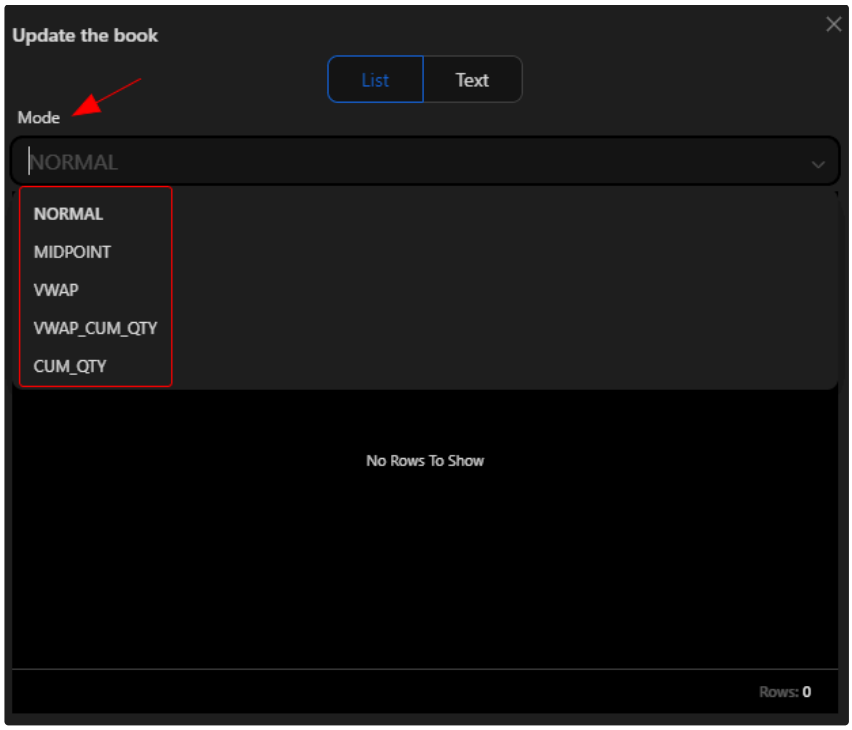
Note: If you are creating a virtual book of 3 layers without any markup then it will be merged and streamed as one layer only. So to achieve a multi-layered virtual book, you need to add markups on each layer along with the volume.

How execution works when using the Book Construction

When it comes to execution, we differentiate A Book from B Book as follows

Book Execution Type	Execution Mode
A Book	The entire Order will be sent to the Makers at the Top of the Book irrespective of the Volumes at the constructed Book.
B Book	Orders will be filled based on the constructed Book by sweeping the Book from top to bottom until the Order is fully or partially filled. It's the same way the Centroid Bridge would execute any Order based on a real Liquidity Book.

Modes Of Book Construction



Normal Mode:

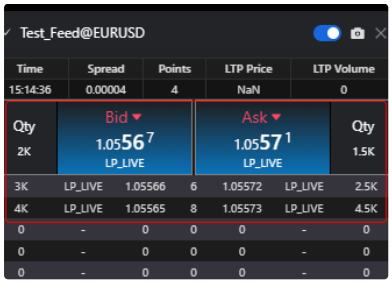
When creating a book using the Normal mode for Book Construction, the system utilizes the TOB Bid Price and TOB Ask Price provided by the maker(s) in the liquidity model or pool, in conjunction with the volumes you specified in the book construction process. This approach ensures that the book is constructed based on the most recent bid and ask prices available.

Example:

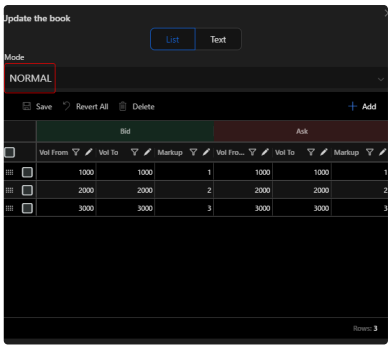
Raw Book from the Maker (1.1)

Number of Layers	Bid Prices	Bid Volumes	Ask Prices	Ask Volumes
1	1.055**67**	2000	1.055**71**	1500
2	1.055**66**	3000	1.055**72**	2500
3	1.055**65**	4000	1.055**73**	4500

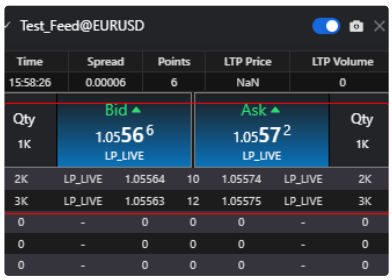
Market Watch Raw Book from the Maker (1.1)



Constructed Artificial Book (1.2)



Market Watch Utilizing the Book Construction (1.3)



Summary:

- In the process of constructing the book using normal mode, we initially referenced the raw TOB Bid and Ask Prices *(see Image 1.1)*.
- We then performed the requisite markup adjustments and incorporated the volume data, as outlined in *Image 1.2*.
- The resultant prices and volumes, as shown in *Image 1.3*, confirm that the final output meets our anticipated criteria.

Midpoint Mode:

When using the Midpoint mode for Book Construction, the system calculates the book values based on the midpoint between the TOB Bid Price and TOB Ask Price provided by the maker(s) in the liquidity model or pool. Additionally, any markups you apply are incorporated along with the volumes you specify during the construction process. This approach ensures that the book accurately reflects the adjusted pricing and the volumes you have entered.

Example:

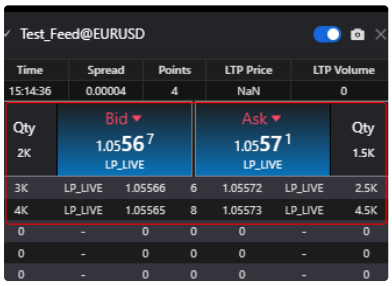
Raw Book from the Maker (2.1)

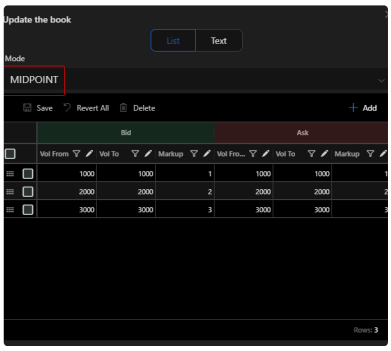
Number of Layers	Bid Prices	Bid Volumes	Ask Prices	Ask Volumes
1	1.055**67**	1000	1.055**71**	1500
2	1.055**66**	2000	1.055**72**	2500
3	1.055**65**	4000	1.055**73**	4500

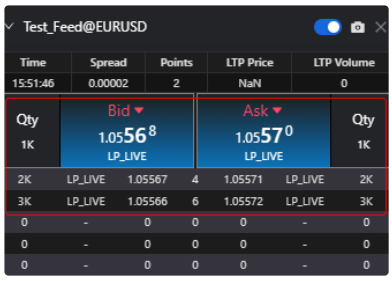
Market Watch Raw Book from the Maker (2.1)

Constructed Artificial Book (2.2)

Market Watch Utilizing the Book Construction (2.3)







Summary:

- During the book construction using midpoint mode, we first used the raw TOB Bid and Ask Prices to determine the Midpoint (Average) (refer to *Image 2.1*).
- After calculating the average from the TOB Bid and Ask Prices, we applied the necessary markup adjustments and incorporated the volume data, as detailed in *Image 2.2*.
- The resulting prices and volumes, illustrated in *Image 2.3*, verify that the final output aligns with our expected criteria.

VWAP Mode:

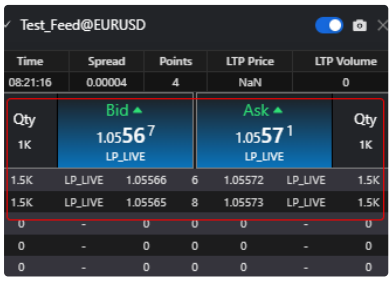
In VWAP Mode for Book Construction, the system considers the pricing from all layers provided by the maker(s) in the liquidity model or pool, as well as the volumes the maker(s) is streaming. The book is constructed based on the volumes you specify. If necessary, the system will use pricing and volumes from two layers provided by the maker to build one layer of your artificial book. The construction of the second layer will begin where the first layer concluded. Further details will be provided with an example. The price displayed for the book will be the Volume-Weighted Average Price (VWAP).

Example:

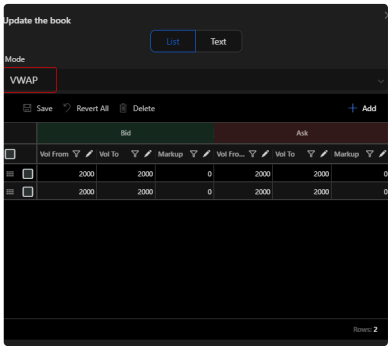
Raw Book from the Maker (3.1)

Number of Layers	Bid Prices	Bid Volumes	Ask Prices	Ask Volumes
1	1.055**67**	1000	1.055**71**	1000
2	1.055**66**	1500	1.055**72**	1500
3	1.055**65**	1500	1.055**73**	1500

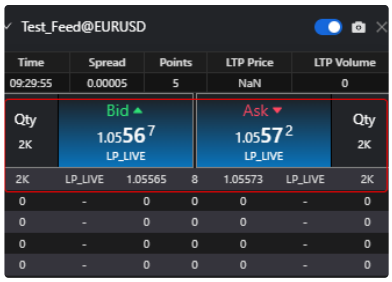
Market Watch Raw Book from the Maker (3.1)



Constructed Artificial Book (3.2)



Market Watch Utilizing the Book Construction (3.3)



Summary:

- In constructing the book using VWAP mode, we utilized the Raw Bid Prices and Volumes and Raw Ask Prices and Volumes from all layers (see *Image 3.1*) to create the artificial book.

- We then applied any necessary markup adjustments and integrated the volume data, as described in *Image 3.2*. This process involved sweeping the Raw Book from top to bottom.
- The final prices and volumes, shown in *Image 3.3*, confirm that the output meets our anticipated criteria. Price for Artificial Book is calculated as
  VWAP is calculated using the formula: **VWAP=∑(Price×Quantity)/∑Quantity**, where each raw price and quantity pair is considered until the final value meets the expected criteria.

VWAP Cumulative Mode:

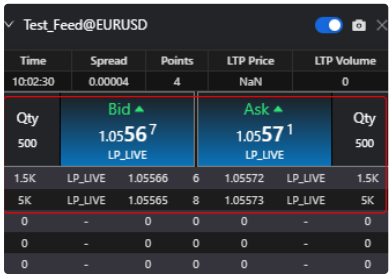
In VWAP Cumulative Mode for Book Construction, the system incorporates the pricing from all layers provided by the maker(s) in the liquidity model or pool, as well as the volumes the maker(s) is streaming. The book is constructed based on the volumes you specify. If necessary, the system will use pricing and volumes from two layers provided by the maker to build one layer of your artificial book. The construction of the second layer will start from the very top again. Further details will be provided with an example. The displayed price for the book will be the Volume-Weighted Average Price (VWAP).

Example:

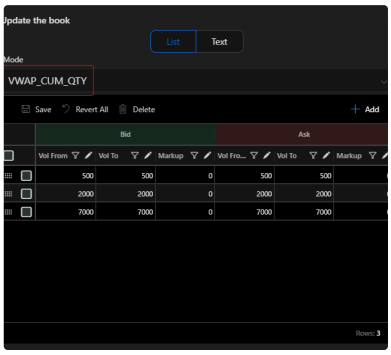
Raw Book from the Maker (4.1)

Number of Layers	Bid Prices	Bid Volumes	Ask Prices	Ask Volumes
1	1.055**67**	500	1.055**71**	500
2	1.055**66**	1500	1.055**72**	1500
3	1.055**65**	5000	1.055**73**	5000

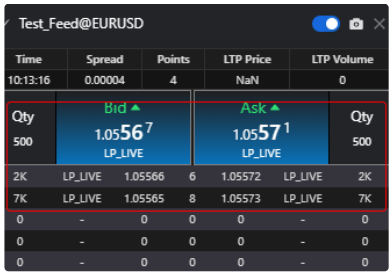
Market Watch Raw Book from the Maker (4.1)



Constructed Artificial Book (4.2)



Market Watch Utilizing the Book Construction (4.3)



Summary:

- In constructing the book using VWAP Cumulative Mode, we utilized the Raw Bid Prices and Volumes and Raw Ask Prices and Volumes from all layers (see Image 4.1) to create the artificial book.
- We then applied any necessary markup adjustments and integrated the volume data, as described in Image 4.2. This process involved sweeping the Raw Book from top to bottom, restarting from the top for each subsequent layer.
- The final prices and volumes, shown in Image 4.3, confirm that the output meets our anticipated criteria. Price for the Artificial Book is calculated as
  VWAP is calculated using the formula: **VWAP = ∑(Price × Quantity) / ∑Quantity**, where each raw price and quantity pair is considered until the final value meets the specified volume requirements.

Cumulative Mode:

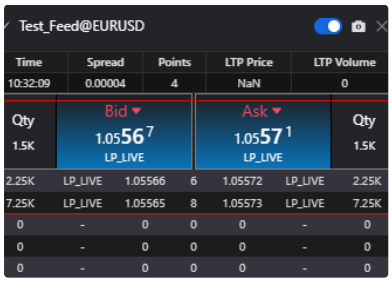
In Cumulative Mode for Book Construction, the system takes into account the pricing from all layers provided by the maker(s) in the liquidity model or pool, as well as the volumes the maker(s) is streaming. The book is constructed based on the volumes you specify. If necessary, the system will use pricing and volumes from two layers provided by the maker to build one layer of your artificial book. The construction of the second layer will start from the very top again. In Cumulative Mode, the displayed price will always reflect the price of the last consumed layer. Further details will be provided with an example.

Example:

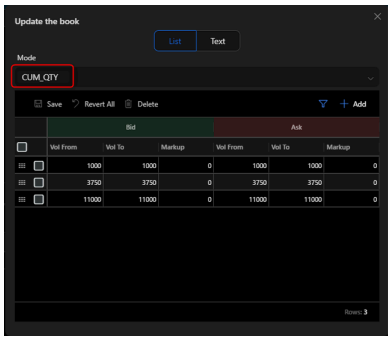
Raw Book from the Maker (5.1)

Number of Layers	Bid Prices	Bid Volumes	Ask Prices	Ask Volumes
1	1.055**67**	1500	1.055**71**	1500
2	1.055**66**	2250	1.055**72**	2250
3	1.055**65**	7250	1.055**73**	7250

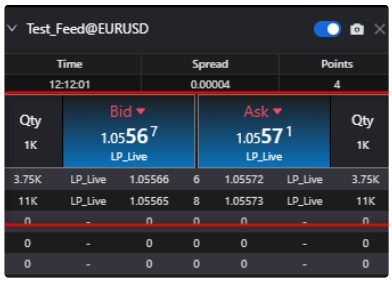
Market Watch Raw Book from the Maker (5.1)



Constructed Artificial Book (5.2)



Market Watch Utilizing the Book Construction (5.3)



Summary:

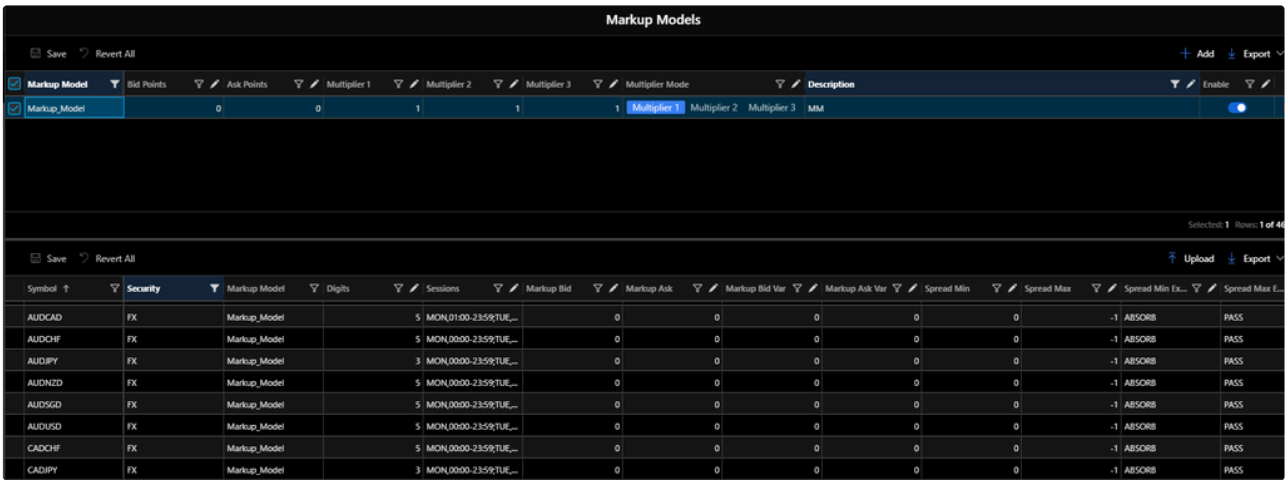
- In constructing the book using Cumulative Mode, we utilized the Raw Bid Prices and Volumes and Raw Ask Prices and Volumes from all layers (see Image 5.1) to create the artificial book.
- We applied the necessary markup adjustments and integrated the volume data, as detailed in Image 5.2. In Cumulative Mode, the process involved sweeping the Raw Book from top to bottom and restarting from the top for each new layer. Notably, if a layer was touched, its full volume was utilized rather than the Book Construction Volume.
- The final prices and volumes, shown in Image 5.3, confirm that the output meets our anticipated criteria. Price for the Artificial Book is derived from the last consumed layer.

Markup Models

Overview

A Markup Model goes together with the Liquidity Model and consists of additional Markups to be added on top of the quotes coming through the Liquidity Model i.e. the Maker.

In this component, you can define a variety of Markup Models for the purpose of adding additional Markups on top of the prices coming from your Liquidity Providers (Makers) for both streaming and execution. The additional Markups defined in this component represents the profit the Broker will be earning on all the flow sent to the Liquidity Providers (Makers).



Within this module, you have the capability to:

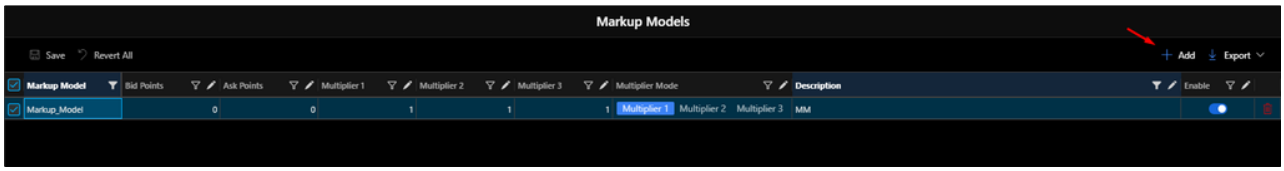
- **Add a Markup Model:** Introduce a new Markup Model.
- **Filter Markup Models:** Categorize Markup Models based on different criteria to simplify configuration.
- **Configure Global Markup Model:** Adjust bid and ask markups, configure markup multipliers, manage enabling/disabling setting, and adding a description for a specific Markup Model at a global level.
- **Delete a Markup Model:** Remove an existing Markup Model.
- **Export a Markup Model:** Save the list of Markup Models to an Excel or CSV file.
- **Filter and Lookup Configuration Settings:** Search for configuration settings by different lookup criteria to ease configuration.
- **Configure Bulk Symbols:** Click the “Edit” icon to modify bulk Symbols may it be all Symbols or a group of filtered Symbols.
- **Configure Markup Model Symbol:** Fine-tune the settings of a Symbol within a Markup Model at the level of each Symbol.
- **Export Symbol Settings of a Particular Markup Model:** Save the configured Symbol settings of a specific Markup Model to an Excel or CSV file.
- **Upload Excel or CSV File:** Update or change bulk configurations of an existing Markup Model by uploading an Excel or CSV file.

Note: Multipliers are coefficients by which the entire Markup Model will be multiplied. You may set up three different Multipliers and alternate between them at any point in time. Multipliers are useful when it comes to increasing markups during news or market volatility in one click without going through each Symbol individually.

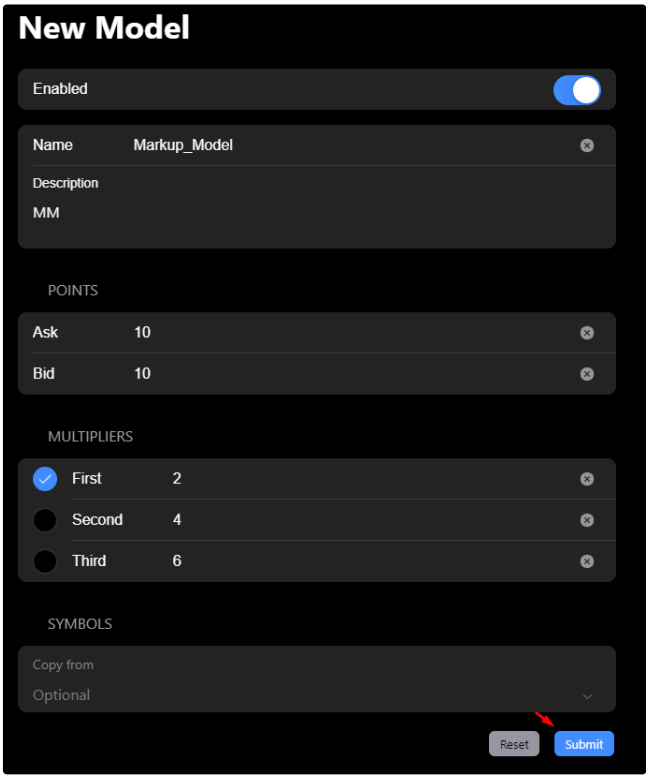
Creating a Markup Model

To create a Markup Model

1. Click on **Hub > Markup Models > Add**



2. Fill out the Wizard with all relevant information. You may refer to the field descriptions hereafter.
3. Click the **"Submit"** button to apply the changes.



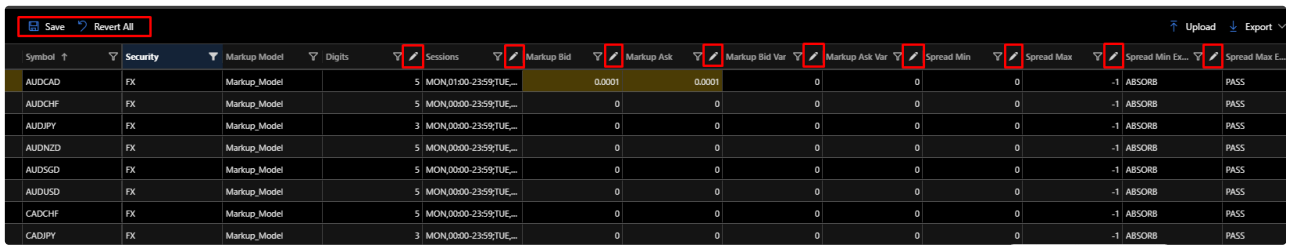
Field	Possible Values	Description
Enabled		Indicates whether the Markup Model is enabled or disabled. • If ticked, the Markup Model is **enabled** upon creation. • If unticked, the Markup Model is **disabled** upon creation. **Note:** Disabling a Markup Model at this level means that Markup and other relevant settings defined here will not be taken into account for all Takers to which this Markup Model is assigned. **Note:** Enabling/Disabling State at this level will apply across all Symbols and can be later changed separately for each Symbol
Name	*Markup_Model*	A unique name of the Markup Model.
Description		A short description for reference purposes only.
Bid Points	*1, 2, 5*	Bid Markup to be added on top of the bid price. Markups are specified in points which are added to the last digit of the symbol. The Markups defined here are applicable across all Symbols within this Markup Model. However, you may have to change the Markups separately on a per symbol basis for securities other than FX at a later stage.

		Note: A negative value would represent a markdown whereby Broker would be giving a price better than the raw price for the client. **Example:** 1 point Markup for the symbol having digits of 5 would correspond to **0.00001**.
Ask Points	*1, 2, 5*	Ask Markup to be added on top of the ask price. Markups are specified in points which are added to the last digit of the symbol. The Markups defined here are applicable across all Symbols within this Markup Model. However, you may have to change the markups separately on a per symbol basis for securities other than FX at a later stage. **Note:** A negative value would represent a markdown whereby Broker would be giving a price better than the raw price for the client. **Example:** 1 point Markup for the symbol having digits of 5 would correspond to **0.00001**.
Multiplier Mode		Select one of the three available Multipliers. If no Multiplier is selected, the default value will be the First Multiplier.
Multipliers (1,2,3)	*0.5, 1, 2*	A coefficient by which the entire Markup Model will be multiplied across all Symbols. Bid and Ask Markups for each Symbol will be multiplied by the value defined in the selected Multiplier.
Copy From		Allows to copy all settings from an existing Markup Model.

Configuring a Markup Model

To configure or modify a newly added or existing Markup Model on a per symbol basis

1. Click the little arrow on the Symbol column to have it sorted in an alphabetical order.
2. Configure the Markup Model by modifying the editable fields.
   a. Select **"Points"** if you want to put a Markup as points. **Example:** BTCUSD is a 2-digit symbol. If you put a 5 points Markup Bid and Ask, it will correspond to **0.05** on Bid/Ask respectively.
   b. Select "**Price**" if you want to put a Markup as a whole number. **Example:** EURUSD is a 5-digit symbol. If you put a 5 number Markup Bid and Ask, it will correspond to **5.00000** on Bid/Ask respectively.
3. All editable fields are represented by a **"Pen"** icon. You may utilize it to bulk edit.
4. Click the **"Save"** button on the top left to apply the changes.
5. Click the **"Revert All"** button if you want to revert to the previous values.



Symbol	Security	Markup Model	Digits	Sessions	Markup Bid	Markup Ask	Markup Bid Var	Markup Ask Var	Spread Min	Spread Max	Spread Min Ex...	Spread Max E...
AUDCAD	FX	Markup_Model	5	MON,01:00-23:59;TUE,...	0.0001	0.0001	0	0	0	-1	ABSORB	PASS
AUDCHF	FX	Markup_Model	5	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
AUDJPY	FX	Markup_Model	3	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
AUDNZD	FX	Markup_Model	5	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
AUDSGD	FX	Markup_Model	5	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
AUDUSD	FX	Markup_Model	5	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
CADCHF	FX	Markup_Model	5	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS
CADJPY	FX	Markup_Model	3	MON,00:00-23:59;TUE,...	0	0	0	0	0	-1	ABSORB	PASS

Field	Possible Values	Description
Symbol	*EURUSD, XAUUSD*	The name of the Symbol to be configured as defined in Symbols.
Security	*FX, CFD, EQUITIES*	The Security into which the Symbol is grouped.

Markup Model	*plain_markup*	The current Markup Model being configured.
Digits	*2*	The number of digits defined for the Symbol upon creation.
Sessions	*MON,00:00-23:59*	Defines the time of the day during which the Markup Model will be functional. All days of the week should be included and separated by a semicolon "**;**" along with the time interval during the day. 00:00-00:00 represents a closure during a particular day.
Markup Bid	*0.00002, 0.02, 0.003*	The Markup or additional spread to be added on top of the bid price. Markups are defined in decimal points. **Note:** A negative value would be highlighted in red and represent a markdown whereby Broker would be giving a price better than the raw price for the client. **Example:** 2 points Markup for the symbol having digit of 5 would correspond to **0.00002**.
Markup Ask	*0.02, 0.00002, 0.003*	The Markup or additional spread to be added on top of the ask price. Markups are defined in decimal points. **Note:** A negative value would be highlighted in red and represent a markdown whereby Broker would be giving a price better than the raw price for the client. **Example:** 5 points Markup for the symbol having digits of 5 would correspond to **0.00005**. **Example:** 10 points Markup for the symbol having digit of 5 would correspond to **0.00010**.
Markup Bid Var	*0.00003*	Defines a random additional bid Markup to be added on top of the Markup Bid to randomize the behavior. The client in this case will see the spread as "Any value between Markup Bid + Markup Bid Var". **Example:** Let's say Markup Bid is **0.00010** (10 points) and the Markup Bid Var is **0.00003** (3 points). So, the Markup Bid will be any value between 10-13 points. 10 points **[Fixed]** + 3 points **[Var]** = **10-13** points
Markup Ask Var	*0.00005*	Defines a random additional ask Markup to be added on top of the Markup Ask to randomize the behavior. The client in this case will see the spread as "Any value between Markup Ask + Markup Ask Var". **Example:** Let's say Markup Ask is **0.00010** (10 points) and the Markup Ask Var is **0.00005** (5 points). So, the Markup Ask will be any value between 10-15 points. 10 points **[Fixed]** + 5 points **[Var]** = **10-15** points
Spread Min	*0.00003*	Defines a minimum spread of the final price shown to client after the bid and ask Markups have been applied. If the price is lower than the defined Spread Min, the Centroid Bridge will enforce the Spread Min by adjusting the Bid and Ask Prices accordingly. • If **Spread Min = -1**, this indicates that Spread Min is disabled, meaning no spread min to be enforced. (**Note**: In case of inverted spread from the Maker, the bridge will accept and advertise the prices to the Takers.) • If **Spread Min = Spread Max**, this results in a **FIXED SPREAD**. • If **Spread Min = 0**, the bridge will adjust the inverted spread to become 0. **Midpoint Price – (Spread Min/2)** and **Midpoint Price + (Spread Min/2)**
Spread Max	*0.00008*	Defines a maximum spread of the final price shown to client after the bid and ask Markups have been applied in the event of price widening.

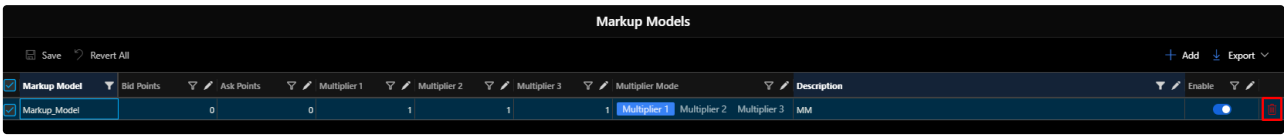
		If the price is greater than the defined Spread Max, the Centroid Bridge will enforce the Spread Max by adjusting the Bid and Ask Prices accordingly. • If **Spread Max = -1**, this indicates that Spread Max is disabled. • If **Spread Min = Spread Max**, this results in a **FIXED SPREAD**. • If **Spread Max = 0**, the spread would become 0 using the midpoint price which would be shown on both ends, bid and ask respectively. **Midpoint Price – (Spread Max/2)** and **Midpoint Price + (Spread Max/2)**
Spread Min Exec	*ABSORB, PASS, INVALIDATE, REJECT, INVALIDATE_AND_REJECT, PASS_A_ABSORB_B*	This works with coordination of **Spread Min** if defined. It dictates the execution behavior in case the Price exceeds the Spread Min. The execution will be subject to the following options: • **ABSORB**: The difference between the Actual Price and the Spread Min will be **absorbed by the Broker**. So, the client will get executed at the adjusted price that was advertised upon placing the order. • **PASS**: The difference between the Actual Price and Spread Min will be **passed on to the client** which will theoretically execute the client against the real market price. • **INVALIDATE**: If the Price is higher than the Spread Min defined, **the tick will not be advertised to client** but order may still come through if same Markup Model is used for TF and TEM. • **REJECT**: If the Price is higher than the Spread Min defined, then the Centroid Bridge will **reject all the trades**, hence no execution will take place. However, the price is still advertised to the Taker. • **INVALIDATE_AND_REJECT**: If the Price is higher than the Spread Min defined, Prices will be invalidated (not updating) and trades will be rejected. • **PASS_A_ABSORB_B**: If the Price is higher than the Spread Min defined, the slippage or the difference between the Actual Price and Spread Min for A Book orders will be passed on the to the client, while for B Book Orders, the Broker will absorb the slippage.
Spread Max Exec	*ABSORB, PASS, INVALIDATE, REJECT, INVALIDATE_AND_REJECT, PASS_A_ABSORB_B*	This works with coordination of **Spread Max** if defined. It dictates the execution behavior in case the Price exceeds the Spread Max. The execution will be subject to the following options: • **PASS:** The difference between the Actual Price and Spread Max will be **passed on to the client** which will theoretically execute the client against the real market price. • **ABSORB:** The difference between the Actual Price and the Spread Max will be **absorbed by the Broker**. So, the client will get executed at the adjusted price that was advertised upon placing the order. • **REJECT:** If the Price is higher than the Spread Max defined, then the Centroid Bridge will **reject all the trades**, hence no execution will take place. However, the price is still advertised to the Taker. • **INVALIDATE:** If the Price is higher than the Spread Max defined, **the tick will not be advertised to client** but order may still come through if same Markup Model is used for TF and TEM. • **INVALIDATE_AND_REJECT:** If the Price is higher than the Spread Max defined, Prices will be invalidated (not updating) and trades will be rejected. • **PASS_A_ABSORB_B:** If the Price is higher than the Spread Max defined, this is how it will work for A Book and B Book clients: For A Book Clients: **Execution Price** will be sent as the confirmation i.e. the difference will be passed to the client resulting to Slippage. For B Book Clients: **Requested Price** will be sent as the confirmation i.e. the difference will be absorbed by the Broker.
Extra Digits	*1, 2, 3*	This adds a decimal digit to the price for all clients to where this Markup Model will be assigned.

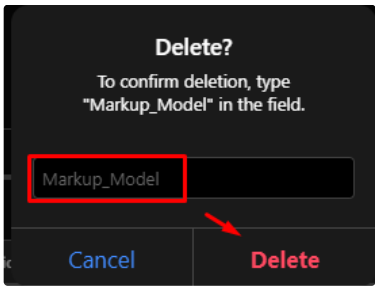
		Example: EURUSD 5-digit symbol. Let's say you are adding 1 decimal, then EURUSD will start pricing with 6 digits and you can confirm this by checking from the Market Watch.
Level	*0, 2, 5*	If the Maker is pricing with 5 layers and the Markup Model is having a Level of 1, then only 1 layer (that is first layers only) will have the effect of Markup Model while the rest of the 4 layers from the Maker will be streamed as raw to your clients. • **0** = It covers all layers. • **1, 2, 3** = Any other number configured here means it would be restricted to these many layers only.
WL Bid Points (White-Label)	*0, 10, 50*	Here you can define a value in points as a share of the markup you are giving to your White-Label Client that will be available in the markup report. **Example:** If the digit for a particular symbol is 5 and you have configured 5 (points) then the WL client will get 5 points out of the Bid Markup configured here.
WL Ask Points (White-Label)	*0, 10, 50*	Here you can define a value in points as a share of the markup you are giving to your White-Label Client that will be available in the markup report **Example:** If the digit for a particular symbol is 5 and you have configured 5 (points) then the WL client will get 5 points out of the Ask Markup configured here.
Description		A short description for reference purposes that is copied automatically from the description defined in Symbols.
Enable	*Enabled, Disabled*	Defines whether the Markup settings are enabled or disabled for that particular symbol. • If ticked, the Markup settings are **Enabled**. • If unticked, the Markup settings are **Disabled**.

Deleting a Markup Model

To delete a Markup Model

1. Click the **"Delete"** icon next to the desired Markup Model
2. To confirm the deletion, type the name of the **Markup Model** in the field.
3. Confirm the **"Delete"** button in the pop-up window to confirm the deletion

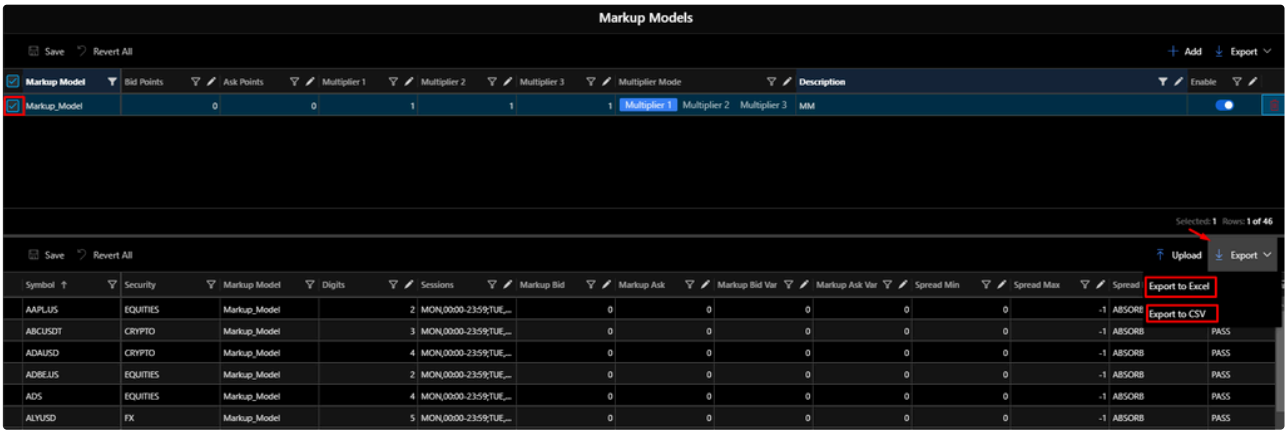




Exporting a Markup Model

To export a Markup Model

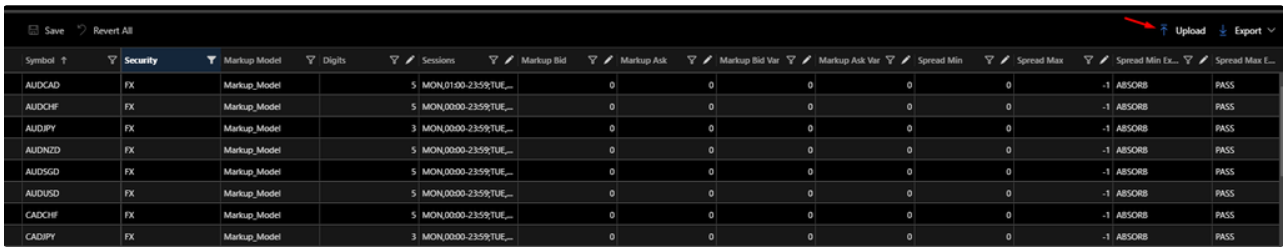
1. Select the markup model from the list you wish to export.
2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



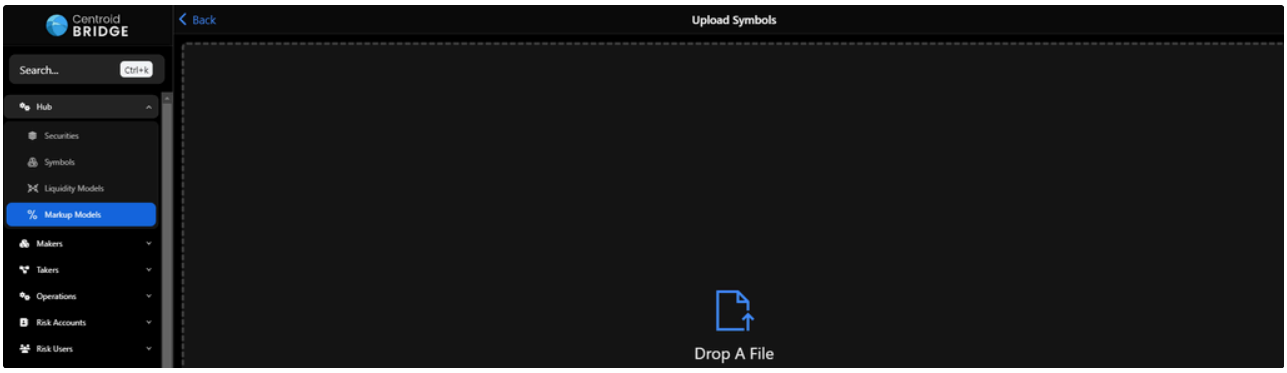
Uploading a Markup Model

To upload a Markup Model symbol settings

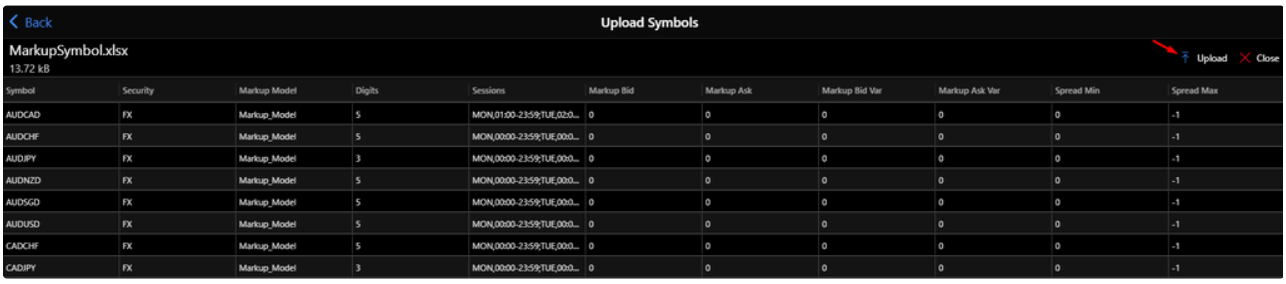
1. Click on **“Upload”**



2. Drop the file you want to upload. Alternatively, you can click on “**Drop a File”**, select the file and click **“Open”**



3. Click **“Upload“** to upload the file or click **“Close”** to cancel.



Note: The best way to avoid any errors would be creating a plain markup model or exporting the existing one, and updating all the details along with the Markup Model Name, so a new one is created and nothing is changed for the old one.

FAQ - Hub Module

FAQ

Securities

Can we introduce more Security Types?

At the moment, we cannot add more security types, However all the security types would be available in your Centroid Bridge.

Symbols

Do I need to perform a system restart after adding a new symbol to the centroid bridge?

A system restart is not necessary when adding a new symbol.

What is the recommended way to update the Vol Digits?

For updating the Vol digits, we kindly suggest contacting our support team through email support@centroidsol.com, as this process also requires restarting your Centroid Bridge.

Should I consider updating the Session time over the Centroid Bridge, and is it recommended?

We generally advise maintaining the Centroid Bridge session 24/7 and suggest making any required session changes on the Trading Platform.

Liquidity Models

Can multiple makers be assigned in a single LM?

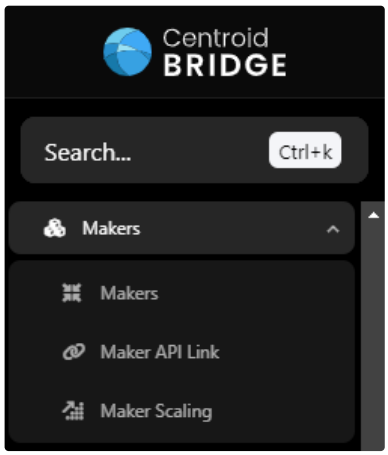
Certainly, it is possible to assign multiple makers within a single LM.

What effects should be expected when disabling a LM or a symbol within it?

When a Liquidity Model or a specific symbol within it is disabled, price updates will cease, and trades won't be forwarded to the designated maker.

Makers

The Makers Module allows the broker to create and configure Makers, Maker API Link, and Maker Scaling. Upon clicking the “Makers” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.

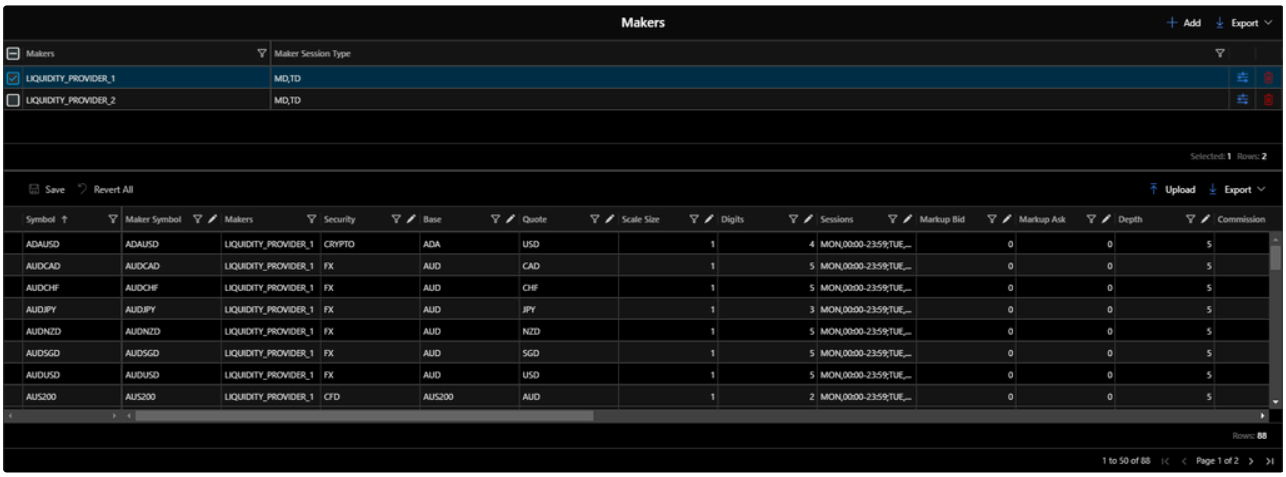


Makers

Overview

A Maker represents the Liquidity Provider in the Bridge. It consists of a 2-way connection between the Centroid Bridge and the Maker whereby the Bridge receives price updates from the Maker and sends Order requests for execution to the Maker based on a variety of routing rules.

In this Component, you can view the list of Makers that are defined in the Centroid Bridge and its symbol settings. The makers can be configured down to the level of individual Symbols as explained below.

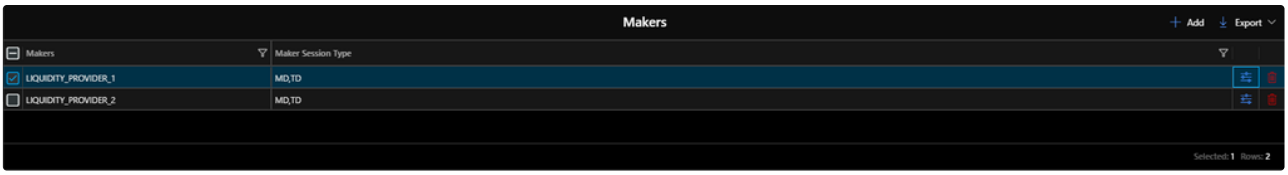


In this component, you will be able to do the following:

- **Create a New Maker Session:** Add a new Maker Session to the Centroid Bridge.
- **Filter Maker Sessions:** Filter by different search criteria.
- **Edit Maker Configurations:** View and edit Maker configuration settings for both trading and pricing sessions.
- **Export List:** Export the list of Makers to an Excel File or CSV file.
- **Configure Bulk Symbol Settings:** Configure a bulk of Symbol settings by clicking the Edit icon, for all Symbols at once or a group of filtered Symbols.
- **Export Symbol Settings:** Export the list of Symbol Settings of a particular Maker to an Excel file or CSV file.
- **Upload Modified Settings:** Upload an Excel or CSV file to update or change a bulk of configurations on existing Makers.

Viewing / Editing Maker Connection Settings

To view the Maker Connection Settings, click on the button right next to the desired Maker and a pop-up window that contains the Maker Settings will appear as shown below:



The settings are divided into the following three tabs:

- **Feeding:** The Maker Connection Settings of the pricing session.
- **Trading:** The Maker Connection Settings of the trading session.

- **Both:** The Maker Connection Settings of the Maker in case the connection to the Maker is made via one session that combines both feeding and trading.

Note: If the connection to the Maker is made through separate sessions, Feeding and Trading, both tabs will have values, whereas if the connection is made through one session, both Feeding and Trading tabs will show empty values.

Note: For some Makers, you may find the Account number of the Trading Account with the Maker within the configuration settings.

In some cases, editing the session is required from the Broker's end if the LP, for instance, changed some settings such as the account (tag 1) credentials of the Trading Session.

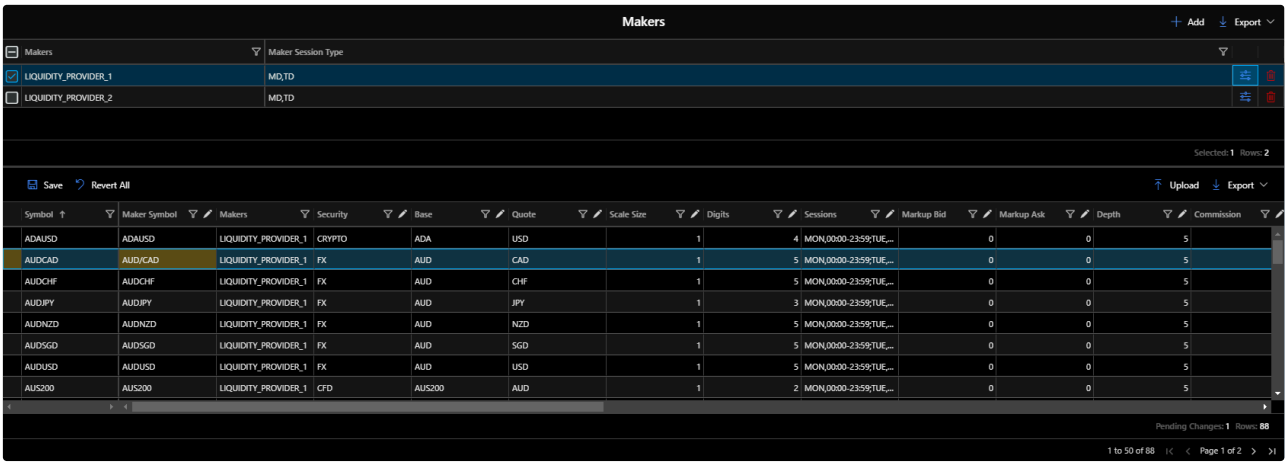
To edit the Maker Connection Settings

1. Click on the desired tab, Trading in the below example.
2. Edit the desired values to the right, Username, and Password in the below example.
3. Click the Save button.

Configuring the Maker and its Symbols

To configure or modify a Maker on a per Symbol basis:

1. Click the check box at the start of the row next to the desired Maker.
2. Configure the desired field for the desired Symbol, which is highlighted.
3. Click the **"Save"** button on the top left to deploy the changes.



Field	Editable	Possible Values	Description
Symbol	No	*EURUSD, XAUUSD*	The Symbol to be configured
Maker Symbol	Yes	*EUR/USD, XAUUSD.c*	The name of the instrument you are subscribing to on the Maker's end. This allows to map Symbols in your Centroid Bridge to Maker's Symbols. Here we can configure the Maker Symbol, which will be provided by the Maker itself Example: Symbol: EURUSD Maker Symbol: EUR/USD
Security	No	*FX, CFD, EQUITIES*	The Security into which the Symbol is grouped.
Base	Yes	*EUR, USD, GER30*	The base currency of the Symbol. For FX, it is by default the first currency of the pair whereas for CFDs, it is the full name of the Symbol. Example: EURUSD, Base is EUR UK100, Base is UK100
Quote	Yes	*EUR, USD, GBP*	The quote currency of the Symbol. For FX, it is by default the second currency of the pair whereas for CFDs, it is the currency by which the Symbol is denominated. Example: GBPUSD, Quote is USD
Digits	Yes	*5*	Defines the decimal points in the price of the underlying Symbol to be received from the Maker.
Session	Yes	*MON,00:00-23:59*	Defines the time of the day during which the Maker Symbol will be available for trading.

			All days of the week should be included and separated by semicolon **";"** along with the time interval during the day. 00:00-00:00 represents a closure during a particular day.
Markup Bid	Yes	*0.00005, 0.1, 1*	Pre-Aggregation Markup, i.e. This will have the Markup on the Raw Price from the Maker, and if you have any Additional Markup Model then, Raw Price + Markup [Maker] + Markup Model = Client's Final Price / Spread. Example: Same as Markup Model, In Points, 1 point markup for the symbol having digit as 5 would be **0.00001.** *Note: A negative value would represent a markdown whereby the broker would be giving a price better than the raw price for the client.*
Markup Ask	Yes	*0.003, 0.5*	Pre-Aggregation Markup, i.e. This will have the Markup on the Raw Price from the Maker, and if you have any Additional Markup Model then, Raw Price + Markup [Maker] + Markup Model = Client's Final Price / Spread. Example: Same as Markup Model, In Points, 5 point markup for the symbol having digit as 5 would be **0.00005.** *Note: A negative value would represent a markdown whereby the broker would be giving a price better than the raw price for the client.*
Depth	Yes	*0,1,3,5,10*	Depth, the number of layers you are subscribing to from a specific Maker. Example: Depth configured as 5, then the bridge is expecting to receive and process up to a maximum of 5 layers from the Maker, now it depends on the maker if it will send 5 layers.
Min Size	Yes	*1000* [In Volume]	The Minimum size of order allowed, executed, and to be sent to the Maker, any order below this value will be rejected by the Bridge. Example: EURUSD Min Size configured as 10000, client is placing an order for 1000, this order will be rejected as ***"below min volume"***
A Step	Yes	*5000*	The increment in the size from the minimum. Orders sent to the Maker should be a multiple of A Step. Example: If A Step is 2,000 and an order of 9,000 is received, then the Aggregator will execute 8,000 and the remaining 1,000 will expire. Note: It is advisable to keep the A Step similar to Min Size.
Consume A Vol	Yes	*Enabled, Disabled*	Order requests will lead to a reduction in the total/available liquidity from the maker. • Enabled: The available liquidity book will be 800k from that Maker for EURUSD. • Disabled: It won't have any effect of the order request it will still stream with 1M as available liquidity from the Maker for EURUSD. Example: If Maker is advertising 1M on a certain symbol, if consume is enabled, an Order request of 100K will reduce the available liquidity advertised by the Maker to 900k.
Allow Sweep	Yes	*Enabled, Disabled*	Indicates whether the price updates received from the Maker are sweepable or not. • Enabled: The Aggregator targets more than one quote by sweeping the book until the order is filled (fully or partially).

			• Disabled: The Aggregator targets one quote of the book per Maker only, that can best fill the order.
Multi Req Trade	Yes	*0, 1*	This defines how orders pertaining to different levels of the liquidity book are sent to the Maker. • If set to 1, the Aggregator breaks the order into multiple legs based on the number of levels swept in the book and sends multiple order requests to the Maker(s). • If set to 0, the Aggregator sends one Order in full to the Maker at TOB Price Example: If you have the following liquidity book. Level 1: 100K – Maker 1 Level 2: 100K – Maker 2 Level 3: 200k – Maker 1 Level 4: 500K – Maker 2 If an Order of 500K comes in: • If Multi Req Trade is 1, 2 order requests will be sent to each LP as follows: 100K and 200K to Maker 1 100K and 100K to Maker 2 • If Multi Req Trade is 0, 1 order request will be sent to each LP as follows: 300K to Maker 1 200K to Maker 2
Expiry Date	Yes	*20220131*	This is only relevant to Symbols of type Futures which could be mandated by some Makers and defines the Expiry Date of the Symbol. Note: Each Maker may have a different format of Expiry Date to be sent alongside the Order request.
Sub Volumes	Yes	*100, 500, 1000*	This is only relevant to certain Makers which allow to subscribe to different volumes of the liquidity book.
Timeout Warn	Yes	*30,000 ms*	Default Value is 30000 millisecond, at which, if no reply is received from the maker for a specific order request then the Centroid Bridge will start generating Warning Messages.
Timeout Error	Yes	*180,000 ms*	Default Value is 180000 millisecond, at which, if no reply is received from the maker for a specific order request the Centroid Bridge will consider the Order Expired and Rejects It. Disclaimer*:* It is ideal that Timeout Error value is higher than the Timeout Warn value.
Timeout Kill	Yes	*10, 20, 30*	Default value is 10, meaning after 10 Timeout Errors the Centroid Bridge will Disable that specific symbol.
Prices Timeout	Yes	*35000 ms*	Default value is 35000, meaning if there is no price updates within this time frame from the maker, trades on Bbook will be rejected.
Feed Side	Yes	*BID,ASK,BID_ASK*	You can define which side of prices you would like to receive from the specific Maker. • ASK: Only Ask price will be processed after receiving it from the Maker. • ASK_TRADE: Both Ask and Trade prices will be processed after receiving from the Maker. • BID: Only the Bid price will be processed after receiving it from the Maker.

			• BID_ASK: Both Bid and Ask prices will be processed after receiving them from the Maker. • BID_ASK_TRADE: Bid, Ask, and Trade prices will be processed after receiving them from the Maker. • BID_TRADE: Both Bid and Trade prices will be processed after receiving from the Maker. • TRADE: Only the Trade price will be processed after receiving it from the Maker.
Accepted Price Delay	Yes	*400 ms*	Delay in milliseconds after which the price coming from the Maker into the Bridge will be rejected. In other words, if the travel time it takes for the price to be streamed from the Maker into the Bridge is greater than the defined Accepted Price Delay, the price will be discarded hence won't be allowed into the Bridge.
Ignore Prices for B exec	Yes	*Enabled, Disabled*	This works with the Prices Timeout Component. Enabled: If there are no price updates from the maker for the defined value [ms] in Prices Timeout, no execution will take place for the B Book orders. Disabled: Here the Centroid Bridge will ignore the Prices Timeout settings and will process/execute the B Book orders based on the last received price.
Description	No	*Euro Vs. US Dollar*	Default values from the Symbol.
MS Description	Yes	*SPOT Symbols*	An additional description field which could be used for the Maker itself. The most common approach is to copy tick prices from one Maker to another which does not have a working Pricing Session. To do so, it suffices to list the name of the Maker which you wish to price on a per Symbol basis. The Maker Name should be exactly as appears in Maker Session in the format **#mask=Maker_Name#**.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Symbol is enabled or disabled on the Maker Session . • If ticked, the Symbol is enabled. • If unticked, the Symbol is disabled. Disclaimer: Disabling a Symbol at this level means that the Symbol will be disabled for a particular Maker, hence the symbol is not subscribed and no quoting or trading on that Symbol will be allowed.

Re-subscribing Maker Session / Symbol

To re-subscribe or refresh a session at the maker level, you will need to do the following:

1. Click on the configuration option located at the right end of the respective maker session.
2. Access the relevant session, such as Feeding or Trading.
3. Modify the value of the "**Enabled**" key to '**N**' and save the changes.
4. Subsequently, update the value back to '**Y**' and save the changes.

This action initiates the resubscription process at the maker session-level.

To re-subscribe or refresh a maker symbol(s), you will need to do the following:

1. Select the relevant maker session.
2. Find the symbol you want to re-subscribe to and deactivate it.
3. Apply the modifications on the Maker Symbol (not just the symbol) and save.

4. Reactivate the symbol after the changes have been made.

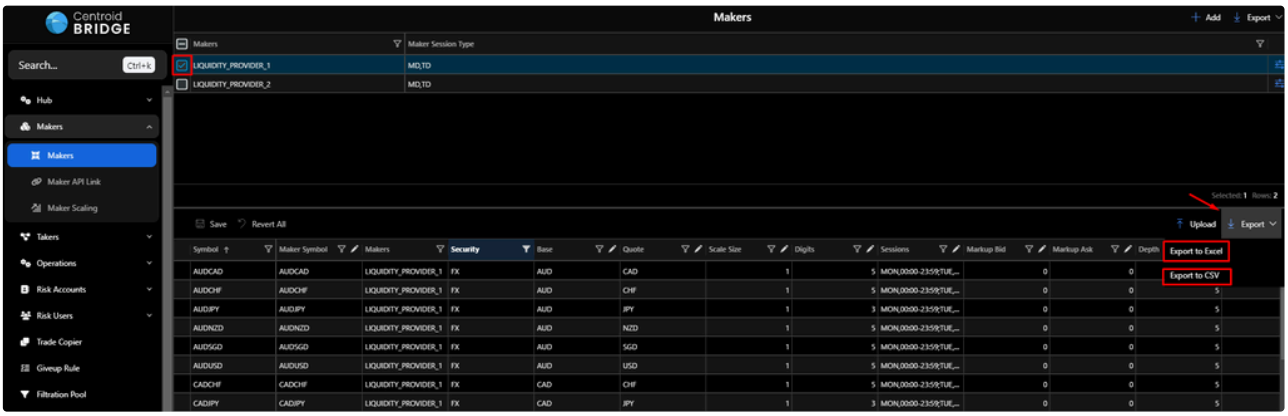
This action initiates the resubscription process at the maker symbol level.

To apply the same action to multiple symbols, you can utilize the Bulk Edit function.

Exporting Maker Symbol Settings

To Export Maker Symbol Settings

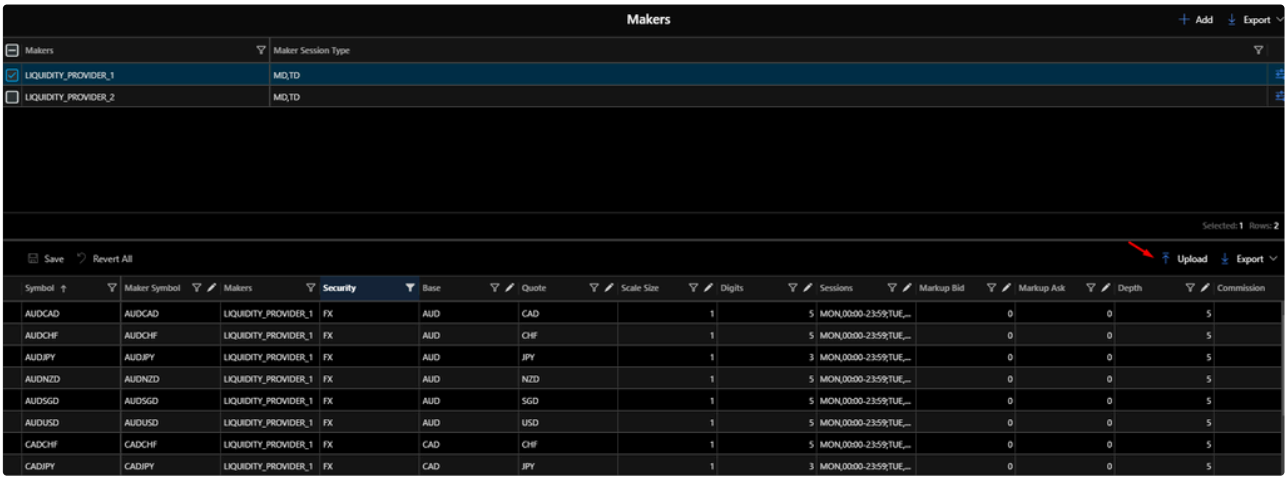
1. You will need to click on the **"Makers"** module.
2. Click on the required **"Maker".**
3. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**".



Importing Maker Symbol Settings

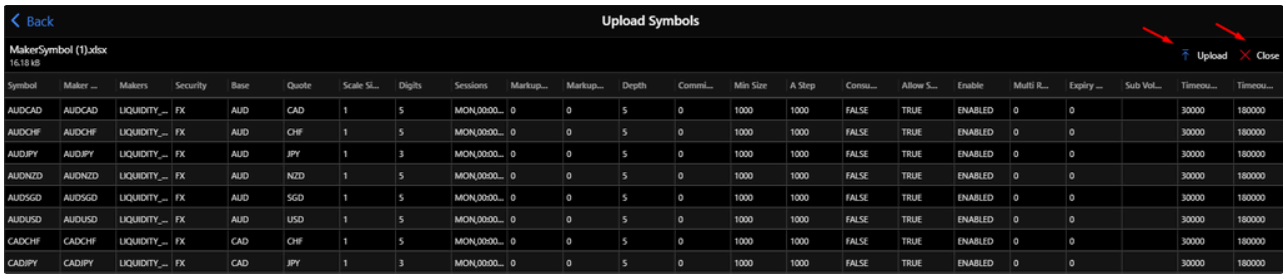
To Import Maker Symbol Settings:

1. Click on "**Upload"**



2. Click on **"Drop File"**

3. To successfully upload the Maker Symbols values, click on “**Upload**”
4. You also have the option to discard the bulk upload by clicking on the “**Close**” Button.



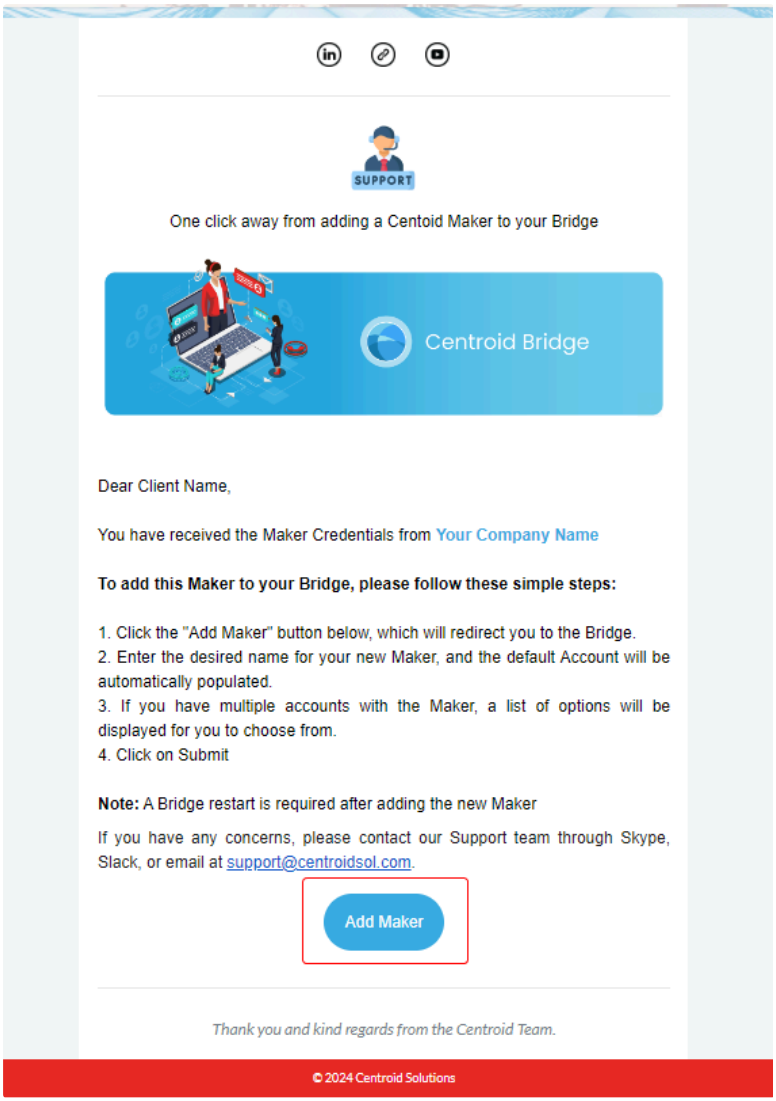
Symbol	Maker ...	Makers	Security	Base	Quote	Scale Si...	Digits	Sessions	Markup...	Markup...	Depth	Commi...	Min Size	A Step	Consu...	Allow S...	Enable	Multi R...	Expiry ...	Sub Vol...	Timeou...	Timeou...
AUDCAD	AUDCAD	LIQUIDITY_...	FX	AUD	CAD	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
AUDCHF	AUDCHF	LIQUIDITY_...	FX	AUD	CHF	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
AUDJPY	AUDJPY	LIQUIDITY_...	FX	AUD	JPY	1	3	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
AUDNZD	AUDNZD	LIQUIDITY_...	FX	AUD	NZD	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
AUDSGD	AUDSGD	LIQUIDITY_...	FX	AUD	SGD	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
AUDUSD	AUDUSD	LIQUIDITY_...	FX	AUD	USD	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
CADCHF	CADCHF	LIQUIDITY_...	FX	CAD	CHF	1	5	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000
CADJPY	CADJPY	LIQUIDITY_...	FX	CAD	JPY	1	3	MON,00:00...	0	0	5	0	1000	1000	FALSE	TRUE	ENABLED	0	0		30000	180000

Guidelines for Receiving and Incorporating the Centroid Maker into Your Centroid Bridge

Overview

This guide walks you through the steps to add the Centroid Maker on your bridge. Before starting, ensure you have received the email with the subject: *"Maker Credentials from [Your Company Name]."* Once confirmed, follow the step-by-step instructions to complete the setup.

The Maker credentials email you receive should look similar to the sample provided below. Please review it to ensure you have all the necessary details.



SUPPORT

One click away from adding a Centoid Maker to your Bridge

Centroid Bridge

Dear Client Name,

You have received the Maker Credentials from Your Company Name

To add this Maker to your Bridge, please follow these simple steps:

1. Click the "Add Maker" button below, which will redirect you to the Bridge.
2. Enter the desired name for your new Maker, and the default Account will be automatically populated.
3. If you have multiple accounts with the Maker, a list of options will be displayed for you to choose from.
4. Click on Submit

Note: A Bridge restart is required after adding the new Maker

If you have any concerns, please contact our Support team through Skype, Slack, or email at support@centroidsol.com.

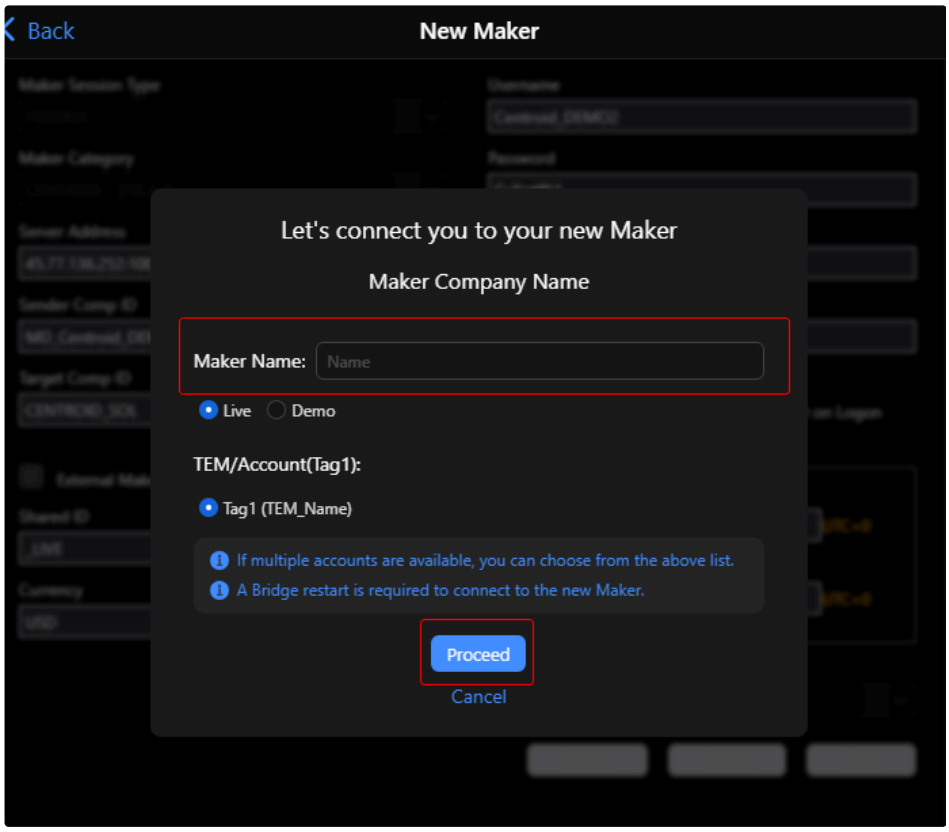
Add Maker

Thank you and kind regards from the Centroid Team.

© 2024 Centroid Solutions

Steps to Complete Maker Addition in the Bridge

- Click on the **Add Maker** button in the Maker Credentials email.
- You will be redirected to the Centroid Bridge, where the following interface will appear.



- In the interface, enter the Maker's name as desired.
- If there are more than two **TEMs (Tag1)** associated with the Maker, select the default account from the dropdown menu.
- Once all fields are completed, click the **Proceed** button to finalize the Maker addition.

Note: A bridge restart is required to activate the Maker

Note: Whitelisting is not required for Centroid-to-Centroid connections

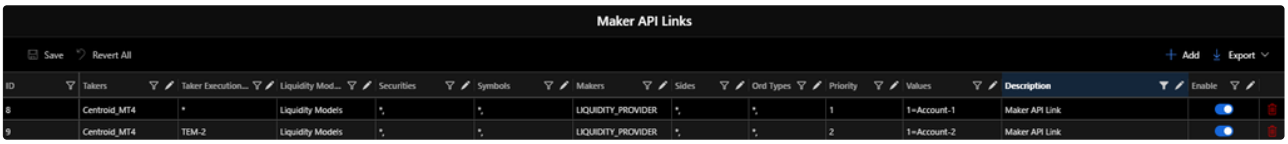
Maker API link

Overview

The Maker API Link component is an added feature for sending lists of values over FIX tags with order requests to the Maker. These lists can be necessary for Makers or used to distinguish specific orders.

One of its useful cases is when targeting different Accounts in a Maker Session, the Account name is sent in tag 1 to ensure the Order is booked into the correct Account on the Maker side.

The diagram below illustrates how the Maker API Link functions.

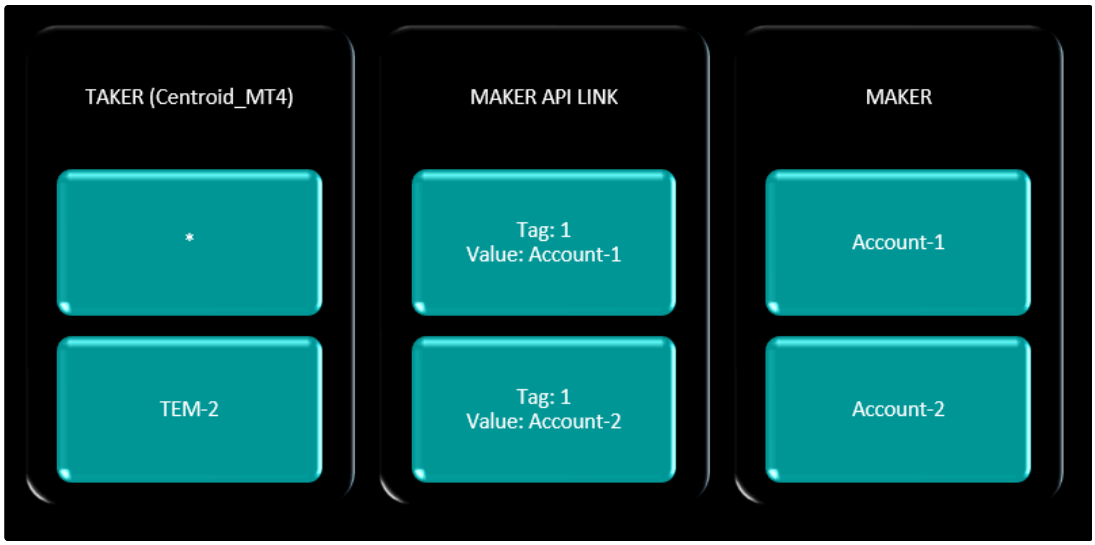


ID	Takers	Taker Execution...	Liquidity Mod...	Securities	Symbols	Makers	Sides	Ord Types	Priority	Values	Description	Enable
8	Centroid_MT4	*	Liquidity Models	*,	*,	LIQUIDITY_PROVIDER	*,	*,	1	1=Account-1	Maker API Link	
9	Centroid_MT4	TEM-2	Liquidity Models	*,	*,	LIQUIDITY_PROVIDER	*,	*,	2	1=Account-2	Maker API Link	

Rules to be applied/created under Maker API Link

- Rule 1 → This rule will consist of filtered trades from Centroid_MT4 from any “Taker Execution Model” to be sent to the maker with Tag 1 (account) with value “Account-1” as a low priority of 1 which can be superseded by higher priority.
- Rule 2 → This rule will consist of filtered trades from Centroid_MT4 from the Taker Execution Model of “TEM 2” to be sent to the maker with Tag 1 (account) with value “Account-2” as a high priority of 2 which can supersede low priority such as 1.

To summarize, any trades incoming from TEM-2 will be re-directed to Account-2 as the rule priority is set to 2, which means Rule 2 will take effect first followed by Rule 1.

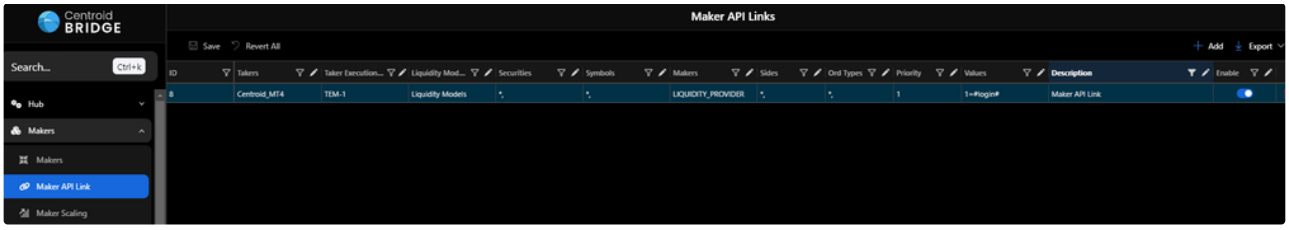


As mentioned above, the Maker API Link can be configured down to the level of the Taker Execution Model and can be done for specific Securities or Symbols as well.

In this component, you will be able to do the following:

1. Create a new Maker API Link.
2. Filter the currently configured Maker API Links by different criteria.
3. Enable/Disable a particular configuration.
4. View and edit a currently configured Maker API Link.

5. Delete a Maker API Link configuration.
6. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”.

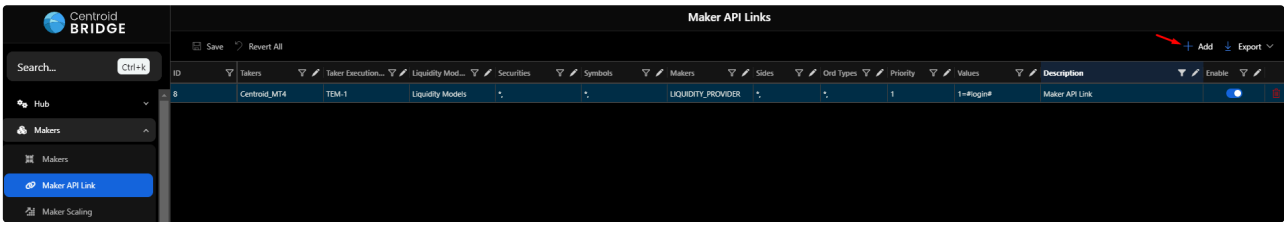


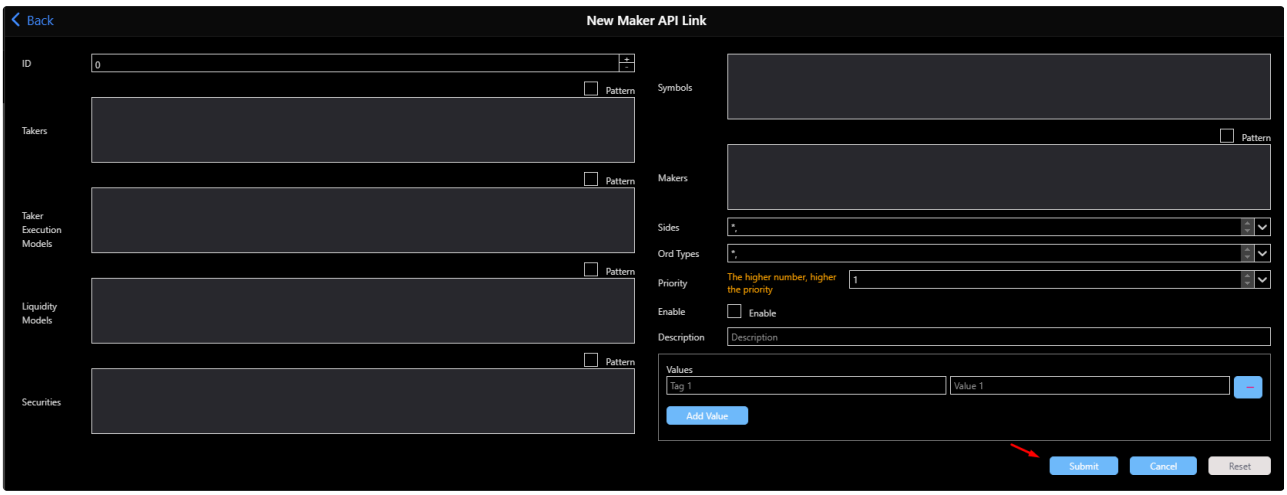
Creating a Maker API Link Rule

To create a new Maker API Link:

1. Click the **“Add”** button to create a new Maker API Link.
2. Fill out the Wizard. You may refer to the field descriptions hereunder.
3. Click **“Submit”** to submit the changes.

Note: In the Values parameter, you can add multiple values depending on your requirements by clicking the **“Add Values”** button.





Field	Possible Values	Description
ID	*1,2,3,10*	A unique configuration ID number for reference purposes. When creating a new configuration, make sure the ID does not exist already.
Takers	*Centroid_MT5*, *Centroid_MT4*	Select one or multiple Takers to be included in the configuration as source(s). You may select the Takers from the available list of Takers or enter comma-separated values manually by ticking the “Pattern” tick box.
Taker Execution Models	*TEM-1, TEM-2, Test_TEM*	Select one or multiple Taker Execution Models to be included in the configuration as source(s). You may select the Taker Execution Models from the available list of Taker Execution Models or

		enter comma-separated values manually by ticking the “Pattern” tick box.
Liquidity Models	*Liquidity_Model*	Select one or multiple Liquidity Models to be included in the configuration as source(s). You may select the Liquidity Model from the available list of Liquidity Models or enter comma-separated values manually by ticking the “Pattern” tick box.
Securities	*FX, CFD*	Select one or multiple Securities from the available Securities in the Centroid Bridge to be included in the configuration. You may select the Securities from the available list of Securities or enter comma-separated values manually by ticking the “Pattern” tick box.
Symbols	*EURUSD, XAUUSD*	Select one or multiple Securities from the available Symbols in the Centroid Bridge to be included in the configuration. You may select the Symbols from the available list of Symbols or enter comma separated values manually by ticking the “Pattern” tick box.
Makers	*Liquidity Provider*	Select one or multiple Makers to be included as a Target to which the Orders are routed. You may select the Makers from the available list of Makers or enter comma-separated values manually by ticking the “Pattern” tick box.
Sides	*Buy, Sell, All*	Select the side of the Order if you need to pass on values for a particular side, such as Buy or Sell. Otherwise, just select “*****” to include all Order sides.
Ord Types	*Market, Limit*	Select the type of the Order if you need to pass on values for a particular execution type, such as Market, Limit or Stop. Otherwise, just select “*****” to include all Order types.
Priority	*1-10*	The priority is essential in the event of overlapping configurations and defines which configuration should supersede. The configuration with the highest Priority always supersedes. You may refer to the above diagram example to understand how the Priority works.
Enable	*Enabled, Disabled*	Indicates whether the configuration is enabled or disabled. • If ticked, the Maker API Link is enabled upon creation. • If unticked, the Maker API Link is disabled upon creation, hence no Tags or Values would be passed on.
Description		A short description for reference purposes.
Values	*Tag: 1, Value: LP Account Number*	The Tags and Values to be passed on in the execution message. It is divided into two parameters: • **Tag**: Enter the tag number you wish to send across. For example, if you select and put in the value 1 under Tag, this means you are targeting a particular account. • **Value**: You can select any Value to be passed on for the selected Tag. It can be either entered manually by typing in the value or passed on as a predefined value using the # key as explained hereafter. You may add as many Values (Tag and Value) as you want by clicking the “Add Value” button. A common example is Tag 1 in case you are targeting different Accounts within a Maker Session. Account is equivalent to Taker Execution Model in the Maker Class is Centroid. For instance, to target an Account called “Acc001”, you simply add the Values: 1 in the Tag textbox and Acc001 in the Value textbox. **Note**: You can pass on some values using macros by putting the parameter name in between two # keys. You may refer to the list of predefined values below.

Note: For patterns, you may use wildcards “*****” and negations “**!**” to include all or exclude certain values.

Note: Below are some of the macros that can be passed across to the Maker while executing the Order using the hash “#” keys.

Value	Description
#taker#	The name of the Taker through which the Order was initiated.
#tem#	The name of the Taker Execution Model through which the Order was routed.
#login#	The MT4/MT5 Login number that placed the Order, in case it was initiated via an MT4/MT5 Taker.
#order#	This is relevant to Orders originating from a Taker of type MT4 or MT5. • MT4: Order will send the Ticket Number of the MT4 trade. • MT5: Order will send the Order Number of the MT5 trade.
#pos#	This is relevant to Orders originating from a Taker of type MT5. It sends the Position Number of the MT5 trade.
#group#	The name of the MT4/MT5 Group of the Account that placed the Order, in case it was initiated via an MT4/MT5 Taker.
#deal#	This is relevant to Orders originating from a Taker of type MT5. It sends the Deal Number of the MT5 trade.

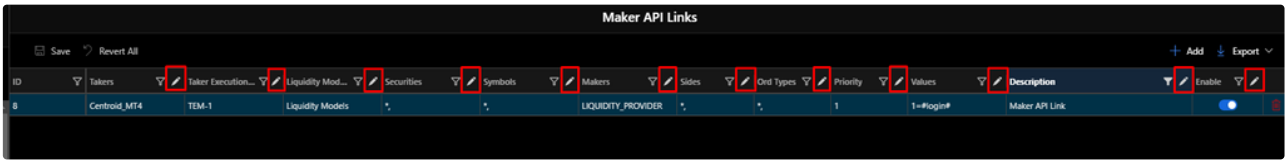
Available macros for sending prices based on the order type.

Macro Value	Definition
#ordpx#	To include order price “limit/stop price”
#ordtobpxb#	To include Agg Book raw ToB bid price to any defined FIX tag, while setting up the rule you might want to filter is as Sell rule.
#ordtobpxa#	To include Agg Book raw ToB ask price to any defined FIX tag, while setting up the rule you might want to filter is as Buy rule.
#ordextpxb#	To include Ext ToB bid price to any defined FIX tag, while setting up the rule you might want to filter is as Sell rule.
#ordextpxa#	To include Ext ToB ask price to any defined FIX tag, while setting up the rule you might want to filter is as Buy rule.
#reqpx#	To include request price “ToB or level book price” to any defined FIX tag

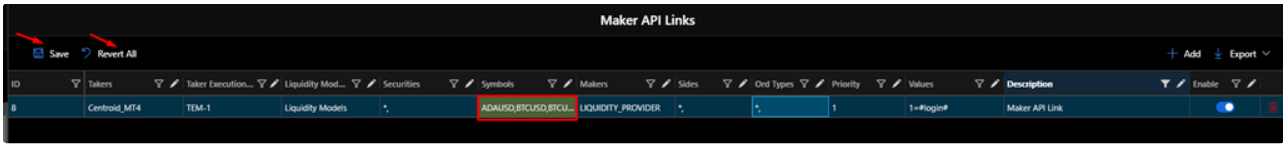
Configuring Maker API Link

To configure a Maker API Link configuration:

1. Double-click the desired column(s) in the Maker API Link Configuration.
2. For some columns, you are presented with a pop-up Window where you can edit and click submit as seen below. This process needs to be done separately for each column or parameter.



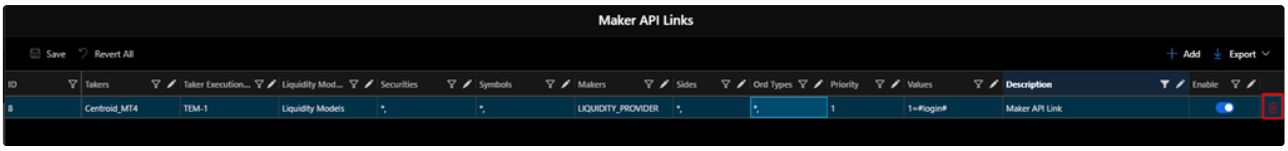
3. Click the **“Submit”** button to apply the changes.
4. Click on **“Save**” to finally save the changes.
5. Click the **“Revert All”** button to undo the changes that have been made

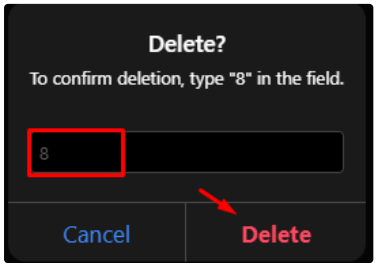


Deleting a Maker API Link Configuration

To delete a Maker API Link configuration:

1. Click the **"Delete"** icon next to the desired Maker API Link configuration.
2. To confirm the Deletion, type in the specified text.
3. Click the **"Delete"** button in the pop-up window to confirm the deletion.

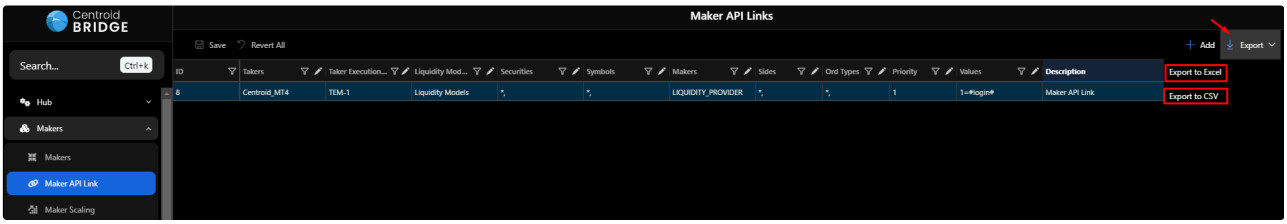




Exporting a Maker API Link

To export a Maker API Link configuration:

1. Filter the desired ID from the list to be able to export a specific Maker API Link rule.
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**".



Maker Scaling

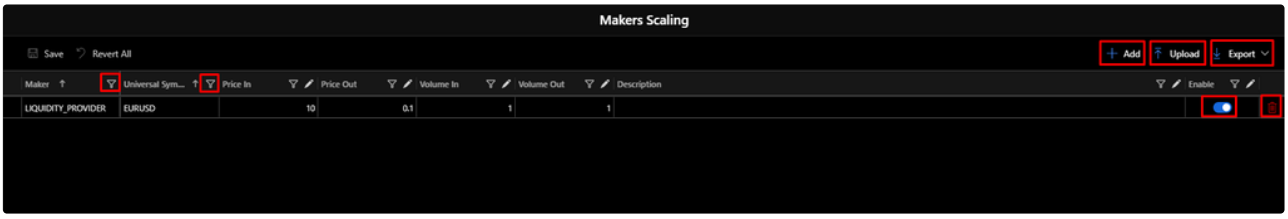
Overview

The Maker scaling acts as a multiplier for the Prices and Volumes provided by the Maker. This can be applied to both incoming (IN) and outgoing (OUT) Prices, as well as Volumes.

It's crucial to emphasize that this scaling operates on a symbol basis at the Maker Level.

Within this module, you have the capability to:

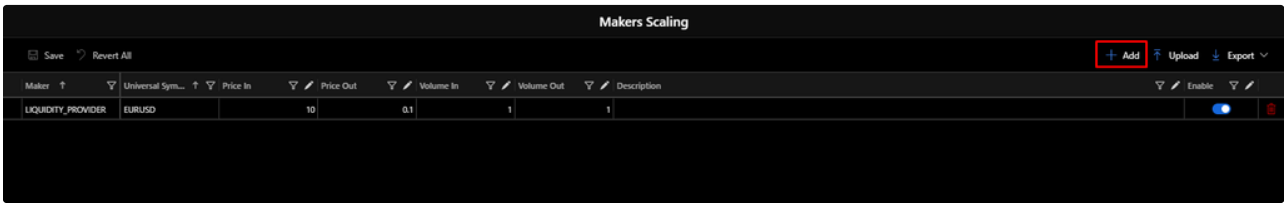
- **Create a New Maker Scaling Rule:** Initiate the setup for a new Maker Scaling Rule.
- **Filter Rules:** Categorize Maker Scaling Rules based on various criteria for easier identification.
- **Enable/Disable Rule:** Manage the active status of a Maker Scaling Rule.
- **Edit Rule:** Modify an existing Maker Scaling Rule by adjusting configurable parameters.
- **Delete Rule:** Remove an existing Maker Scaling Rule.
- **Export Rules:** Save the list of Maker Scaling Rules to an Excel/CSV file.



Creating a Maker Scaling Rule

To create a Maker Scaling Rule:

1. Click on **Maker Scaling** and then click the **"Add"** button.



2. Fill out the Wizard. You may refer to the field descriptions below.
3. Click **"Submit"** to submit the changes.

Field	Editable	Possible Values	Description
Symbol	No	*EURUSD*	Select the Symbol to be scaled up or down

			Note: Only one symbol can be selected per rule.
Maker	No	*LP1*	Select the Maker from the drop-down. **Note:** Only one Maker can be selected per rule.
Price In	Yes	*0.1, 1, 10, 100*	The Multiplier value to be applied on the incoming prices. Example: An incoming price of 101.555 with scaling of 0.1, then the received price on bridge will be 10.1555.
Price Out	Yes	*0.1, 1, 10, 100*	The Multiplier value to be applied on the outgoing prices. This will only work for LIMIT orders as for MARKET orders the price request is not being sent. Example: A limit price of 101.555 with a price scale of 0.1 will be sent to the Maker as 10.1555.
Volume In	Yes	*1, 10, 100000*	The Multiplier value to be applied on the incoming volumes. Example: A volume of 10 with a scaled volume of 100000 will be processed by the bridge as 1000000.
Volume Out	Yes	*0.00001, 1, 10, 100*	The Multiplier value to be applied on the outgoing volumes. Example: A traded volume of 1000000 with a scaled volume of 0.00001 will be sent to the Maker as 10.
Description	Yes		A short description for reference purposes.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Maker Scaling Rule is enabled or disabled. • If ticked, the Maker Scaling Rule is enabled. • If unticked, the Maker Scaling Rule is disabled.

Configure a Maker Scaling Rule

To configure or modify an existing Maker Scaling Rule

1. Select the desired Maker Scaling Rule.

2. Configure the desired fields.

3. Click the **"Save"** button on the top left to deploy the changes.

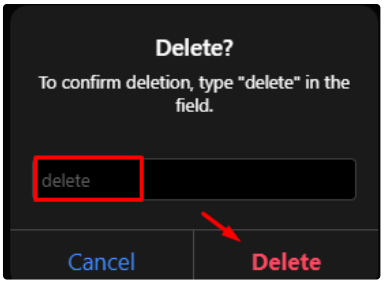
Deleting a Maker Scaling Rule

To delete a Maker Scaling rule

1. Click the **"Delete"** icon next to the desired Rule.

2. To confirm the **Deletion,** type in the confirmation text.

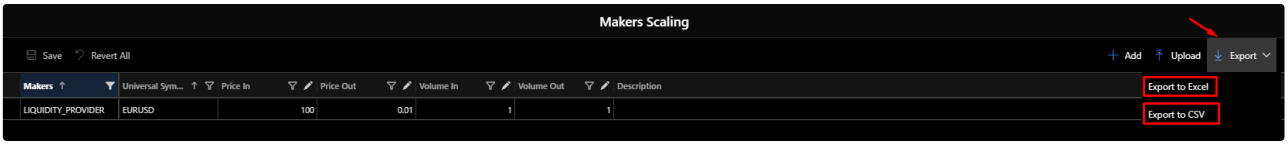
3. Click the **"Delete"** button in the pop-up window.



Exporting a Maker Scaling Rule

To export a Maker Scaling rule

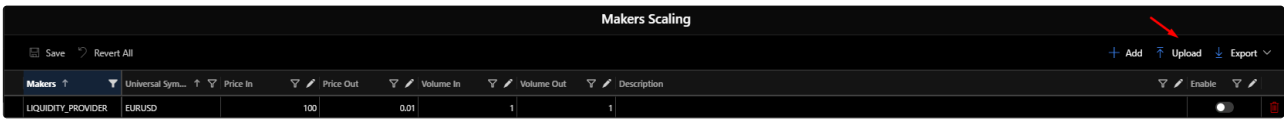
1. Filter the desired Maker Scaling from the list; otherwise, leave it unfiltered to select all
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



Uploading a Maker Scaling Rule

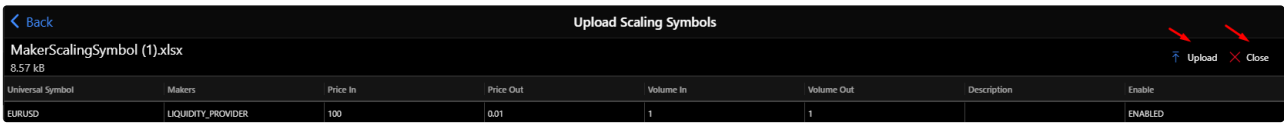
To upload multiple maker scaling rules via the exported file "Excel" or "CSV"

1. Click on the **"Upload".**



2. Click on **"Drop File".**

3. To upload the Liquidity Model values, click on **"Upload".**



4. You also have the option to discard the bulk upload by clicking on the **“Close”** Button.

FAQ - Maker Module

FAQ

Makers

What is the process for adding a Maker connection into our system?

To add a new Maker connection to the Centroid Bridge, we recommend reaching out to our support team via email at support@centroidsol.com

Does establishing connectivity with a new maker connection necessitate a restart?

A restart is necessary to establish connectivity with the Centroid Bridge after adding a new maker connection.

Is sharing IPs required for a successful connection with the maker? If yes, which IPs are needed?

It is important to share the IPs provided by the Centroid Team via the Onboarding Email. Alternatively, you can contact us through Skype/Slack for the IPs. Whitelisting these IPs on the Maker end ensures a smooth connection.

In the event that a Maker symbol is not pricing, what is the procedure for resubscribing to the Symbol?

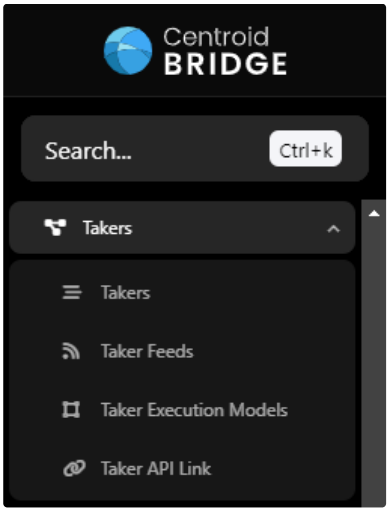
To re-subscribe to a Maker symbol, disable and then enable the symbol on Maker level. This triggers a subscription request from the Centroid Bridge to the Maker. Refer to the Gateway Manual for specific insight on this matter.

How can I subscribe to additional layers from the Maker?

To subscribe to additional Price layers from your specific Maker, configure the Depth setting. Please note that setting the depth to 5 doesn't guarantee receiving 5 layers; the actual number depends on your Maker. This configuration ensures you are sending subscription for 5 layers from the Centroid Bridge to your Maker.

Takers

The Takers Module allows the broker to create and configure Takers, Taker Feeds, Taker Execution Model, and Taker API Link. Upon clicking the “Takers” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.



Takers

Overview

The Takers module handles the Liquidity Takers in the Centroid Bridge including a variety of popular front-end platforms as well as direct FIX APIs connected to the Centroid Bridge in addition to Drop Copy. Platforms include MT4, MT5, Ctrader, or any other FIX-compliant platforms as well as our own Centroid Trading UI.

From the Taker components, you can configure and manage all pricing and trading settings pertaining to the Takers connected to the Centroid Bridge, through the different components, Taker Feeds, and Taker Execution Models, which are explained in more detail hereafter.

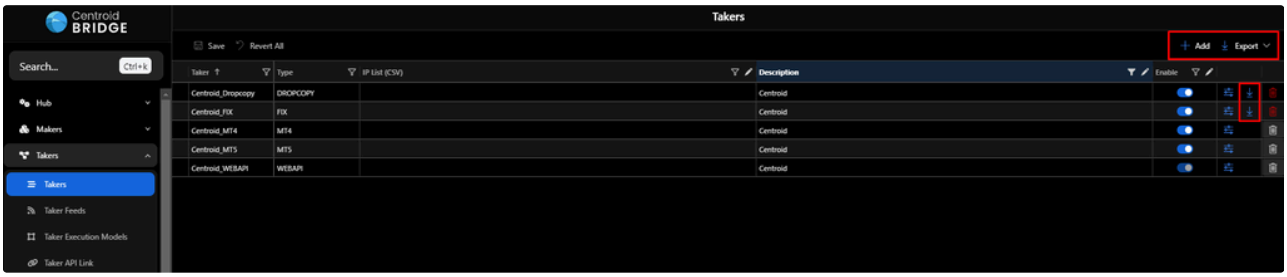
This module displays all the liquidity Takers defined in the Centroid Bridge, which could be of type **MT4, MT5, FIX, Centroid UI,** and **Drop Copy.**

In addition to viewing all Takers configured in the Centroid Bridge, additionally you have the capability to:

- **Create a New Taker (FIX or Drop Copy):** Initiate the setup for a new FIX or Drop Copy Taker.
- **Filter and Look Up Takers:** Categorize and search for specific Takers using various criteria.
- **Enable and Disable Taker:** Manage the active status of a particular Taker.
- **Delete Taker:** Remove a Taker of type FIX or Drop Copy by clicking the delete button.
- **View Taker Connection Settings:** Access and review the connection settings for a Taker.
- **Export Taker FIX Config (Pricing and Trading) or Drop Copy:** Save configuration details to Excel or CSV.
- **Export Taker List:** Save the list of Takers to an Excel file or CSV file.

Note: Disabling Taker on this level means, you are disabling the taker to receive quotes/prices from the bridge and disabling the execution i.e. no trade will be accepted by the bridge from this taker. While enabling a newly added taker will require a restart.

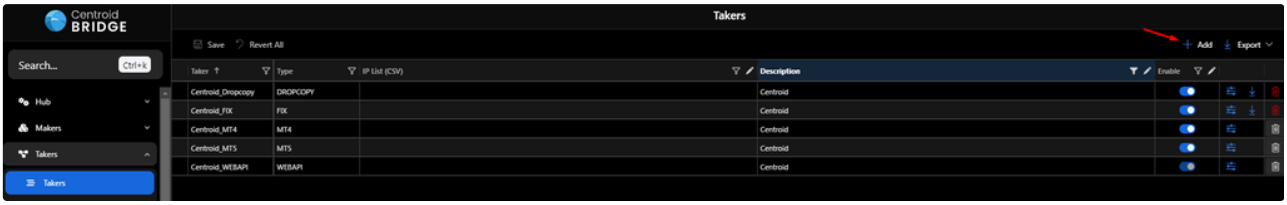
Note: Takers of type MT4 and MT5 cannot be added here, such configurations require assistance from Centroid Support Team.



Creating a Taker

To create a Taker of type FIX or Drop Copy

1. Click the **"Add"** button
2. Fill out the Wizard. You may refer to the field descriptions hereafter
3. Click **"Submit"** to submit the changes



Important Notes:

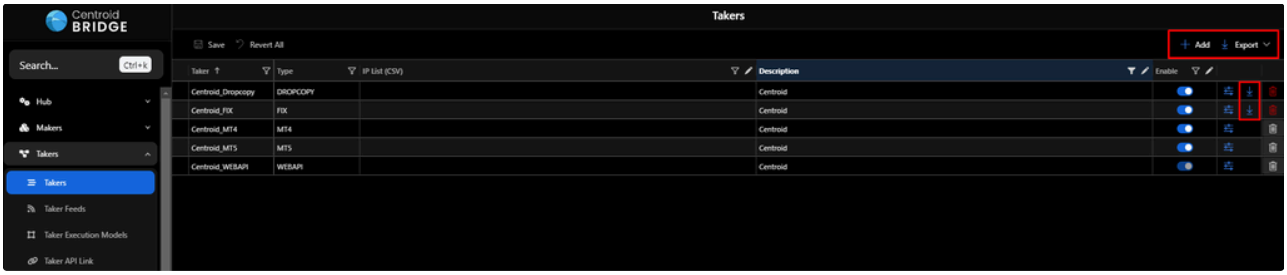
1. Only Takers of type FIX and Drop Copy can be created on the client end, for other types i.e. MT4/MT5, you need to send the request to **support@centroidsol.com** and the Centroid Support team will add it for you.
2. Once you have created the Taker, you need to perform a **Bridge Restart**, after the restart, the Taker will be ready to accept connectivity and the connecting party will be able to establish the connection to the bridge.

Field	Description
Taker	A unique name of the Taker
Type	The type of Taker: • **FIX:** FIX API Pricing and Trading to be given to clients who wish to connect via FIX • **DROPCOPY:** FIX Drop Copy allowing connection to post-trade information via FIX
Description	A short description for reference purposes
IP List	IP(s) of the Taker, comma separated in case of multiple IPs **Disclaimer:** You need to share Sources IPs of the [Taker] with Centroid Support, so we can create the whitelisting request, without the IP whitelisted no connection will be established.
Enable	Indicates whether the Taker is enabled or disabled • If ticked, the Taker will be enabled upon creation • If unticked, the Taker will be fully disabled upon creation hence, no quotes and no execution of trades from this Taker.

Export Takers List

To Export listed Takers

1. You will need to click on the “Takers” module
2. Click on the “Takers”
3. Click “Export” and select “Export to Excel” or “Export to CSV”

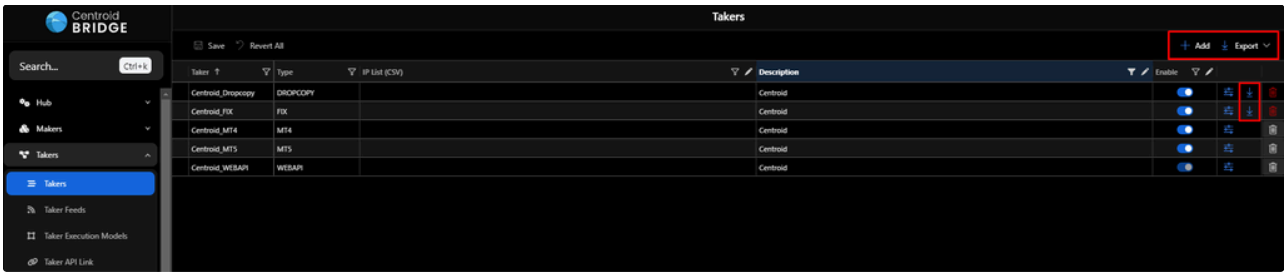


Export FIX or Drop Copy Credentials

You can export the FIX credentials pertaining to Takers of type FIX or Drop Copy. The FIX Taker credentials allow clients to connect to the Centroid Bridge via FIX to receive prices and send Order requests, whereas Drop Copy Taker settings allow you or any third party to connect to post-trade information in real-time.

To Export the FIX credentials

1. Click the **"Export Fix Config"** button next to the desired Taker as seen below



2. Once exported, a text file will be downloaded automatically in which you can see the FIX API configuration

FIX Taker

It contains two sessions with a pricing connection for which the client will be able to connect to receive prices and a trading connection for the client to be able to send trades and receive order confirmations and execution reports from the Centroid Bridge. FIX client should target the Taker Execution Model when sending Order requests via FIX tag 1. In the event of having multiple accounts or Taker Execution Models assigned to the same taker, the accounts or tag #1 will populate all the available values.

```
Pricing Connection
********************
IP/DNS: 127.0.0.1
Port: 10010
LoginUsername: Centroid_FIX
LoginPassword: *#6OR7lV
SenderCompID: MD_Centroid_FIX
TargetCompID: CENTROID_SOL
SSL: N
ResetOnLogon: Y
Session: Friday:00:00:00-Friday:00:00:00

Trading Connection
********************
IP/DNS: 127.0.0.1
Port: 10011
LoginUsername: Centroid_FIX
LoginPassword: *#6OR7lV
SenderCompID: TD_Centroid_FIX
TargetCompID: CENTROID_SOL
SSL: Y
ResetOnLogon: N
Session: Friday:00:00:00-Friday:00:00:00

Taker execution models
************************
Accounts (tag #1 values): tem_a
```

Drop Copy

It contains a single session similar to a Trading session through which the client can connect to receive a copy of post-trade information, as seen below.

```
DROPCOPY
********************
IP/DNS: 130.185.144.138
Port: 10011
LoginUsername: Centroid_DropCopy
LoginPassword: Dq3RWun!
SenderCompID: DC_Centroid_DropCopy
TargetCompID: CENTROID_SOL
SSL: Y
ResetOnLogon: Y
Session: Friday:00:00:00-Friday:00:00:00
```

Guidelines for Configuring and Sending Credentials for FIX Centroid Taker

Overview

This guide covers the setup of a Centroid Taker on the specified bridge, detailing the steps needed to configure and activate it as part of the centroid-to-centroid connection process.

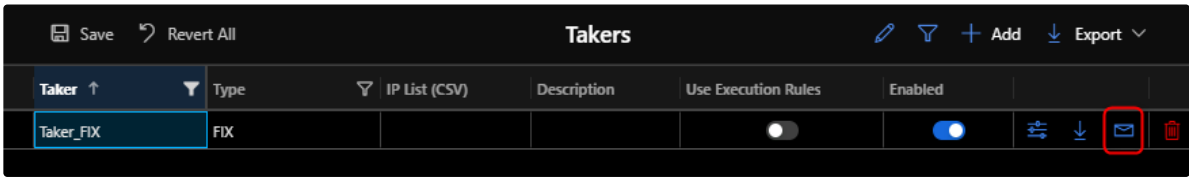
Provisioning Fix Taker and Related Components

For provisioning steps related to the Fix Taker, Taker Feed, and Execution Model, please refer to the documentation at ***[insert path or link]***.

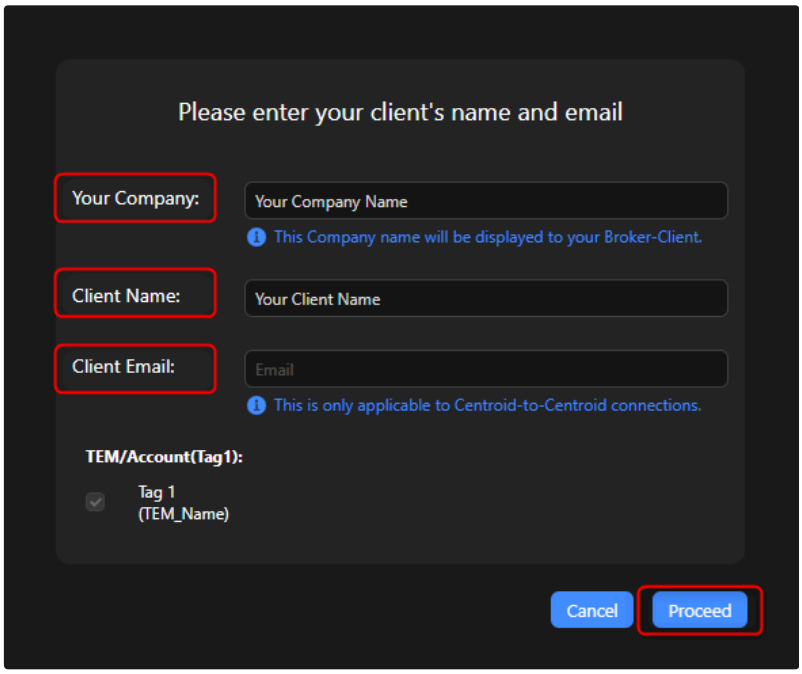
Instructions for Sending Maker Credentials to FIX Takers

After adding your FIX Taker, follow these steps to send the necessary credentials:

1. **Locate the Mailbox Icon**
   Find the small mailbox icon in the interface. Clicking it will open a pop-up window requesting the following information:



- **Your Company**: This field is auto-filled based on your Bridge configuration. You can edit it if necessary.
- **Client Name**: Enter the name of the FIX Taker (typically your client's name).
- **Client Email**: Provide the client's email address where the credentials will be sent. Ensure this email is correct and active.



Ensure that Tag1 is correctly configured, as the absence of **Tag1** will prevent the email from being sent.

Once you click the **Proceed** button, your taker client will receive an email with the subject: *Maker Credentials from "Your Company Name"*.

Upon completing these steps, your Taker client will receive an email containing the required credentials. The next phase will be managed on their end, where they will proceed to add you as a Maker. For further assistance, they can refer to the relevant documentation or reach out to support.

Note: A bridge restart is required to activate the Taker

Note: Whitelisting is not required for Centroid-to-Centroid connections

Taker Feeds

Overview

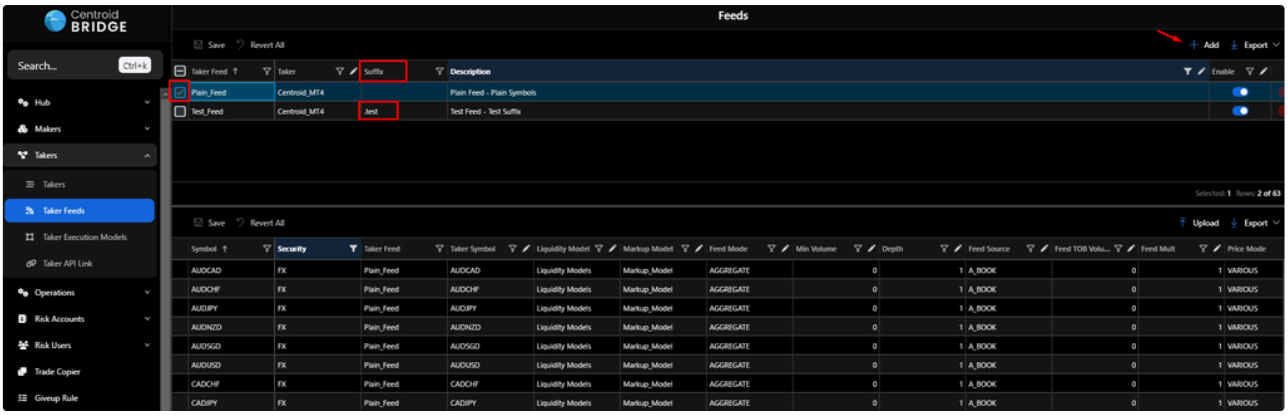
The Taker Feeds component displays all the pricing feeds configured in the Centroid Bridge. The Taker Feed can be assigned to one or multiple Takers into which quotes will be streamed.

An unlimited number of Taker Feeds can be defined with its dedicated settings and can be configured down to the level of individual Symbol.

Within this module, you have the capability to:

- **Create a New Taker Feed:** Initiate the setup for a new Taker Feed.
- **Filter Taker Feeds:** Categorize Taker Feeds based on various criteria for easier identification.
- **Global Enable/Disable:** Enable or disable all Taker Feeds globally, applying changes across associated Symbols.
- **Configure Taker Feed:** Customize a specific Taker Feed, toggling its enable/disable status, and adding a description.
- **Delete Taker Feed:** Remove an existing Taker Feed from the system.
- **Export Taker Feeds:** Save the list of Taker Feeds to Excel or CSV for external reference.
- **Filter and Look up Symbols:** Streamline Symbol configuration by searching and filtering within a Taker Feed.
- **Configure Bulk Symbol Settings:** Use the Edit icon to adjust settings for multiple Symbols at once, either for all or a filtered group.
- **Configure Symbol Settings:** Fine-tune settings for a specific Symbol within a Taker Feed.
- **Export Symbol Settings:** Save the configured settings of a particular Taker Feed's Symbol to Excel or CSV.
- **Upload Modified Settings:** After making changes offline, re-upload the modified file to implement the necessary adjustments.

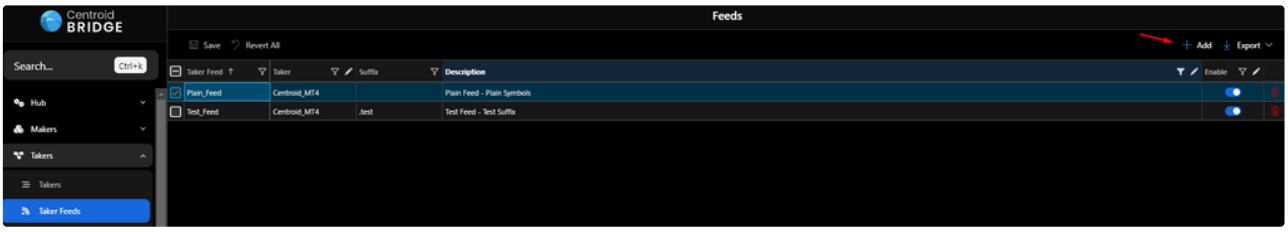
Note: Enabling or disabling a Taker Feed at this level will impact all Symbols within that Taker Feed, meaning prices won't be streamed for this specific taker.



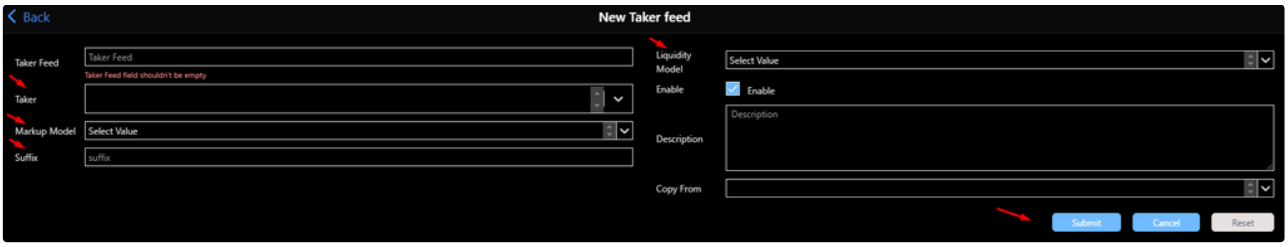
Creating a Taker Feed

To create a Taker Feed

1. Click the **"Add"** button on the top right corner



2. Fill out the Wizard. You may refer to the field descriptions hereafter
3. Click **"Submit"** to submit the changes



Field	Possible Values	Description
Taker Feed	*Plain_TF, Test_TF, S_TF*	A unique name of the Taker Feed
Taker	*Centroid_MT4, Centroid_MT5*	The Taker(s) to which the Taker Feed will be assigned. You may select one or multiple Takers
Markup Model	*Markup_Model, 10PTS_MM*	The Markup Model which defines the markups to be added on top of the raw prices while **streaming** the prices to the taker
Suffix	*.vip, .test, #, .pro*	This is mainly relevant to Taker type - MT4/MT5, because here you can have different set of symbols. Example: EURUSD, EURUSD.pro, EURUSD.vip To ensure that the Taker receives prices for suffix symbols such as **.pro** and **.vip**, you need to create a Taker Feed with the specified suffix. Simply input **.pro** or **.vip** Upon adding this information, a Taker Feed will be generated with the designated suffix.
Liquidity Model	*Aggregated_Model*	When you assign a Liquidity Model to the Taker Feed, you are making sure that this particular feed is receiving prices from the Maker(s) assigned in that Liquidity Model. One Maker: If only 1 Maker is assigned to the Liquidity Model, then your Taker Feed is entitled to receive prices from this Maker only. Multiple Makers: If there is more then one Maker assigned to the Liquidity Model then your Taker Feed is entitled to receive prices from both the makers as Aggregated Feed.
Enable	*Enabled, Disabled*	Indicates whether the Taker Feed is enabled or disabled • If ticked, the Taker Feed will be enabled for streaming prices upon creation • If unticked, the Taker Feed will be disabled upon creation, meaning no prices will be streamed for this particular Taker Feed.
Description	*Plain_Feed, Test_Feed, VIP_Feed*	A short description for reference purposes

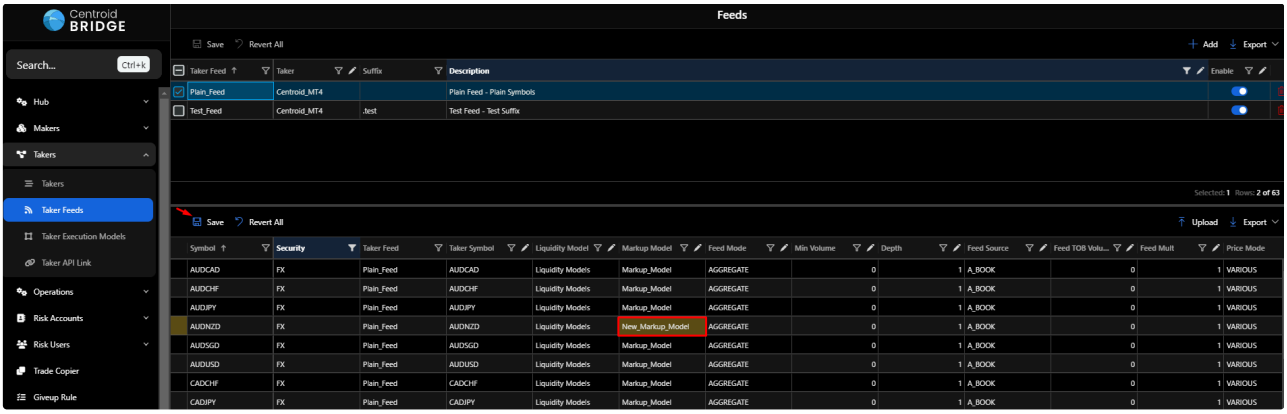
Copy From		Allows to copy the configuration settings of an existing Taker Feed

Note: Settings configured during the creation of the Taker Feed will be applicable across all Symbols. You will be able to modify and further customize the settings of a Taker Feed on a per Symbol basis as explained hereafter.

Configuring Taker Feed

To Configure/Modify a newly added/existing Taker Feed on a per Symbol basis

1. Select the checkbox adjacent to the taker feed name
2. Configure the settings on a symbol level
3. Click the **"Save"** button to apply the modifications.



Field	Editable	Possible Values	Description
Symbol	No	*EURUSD, XAUUSD*	The name of the Symbol to be configured, as defined under Symbols
Security	No	*FX, CFD, Equity*	The Security into which the Symbol is grouped
Taker Feed	No	*Retail_Feed, Plain_Feed*	The name of the Taker Feed being configured
Taker Symbol	Yes	*EURUSD.pro, EURUSD.vb*	Taker symbol is the name of the instrument available at the Taker End where connecting client is expected to subscribe It is important that the correct Taker symbol is being sent to the bridge during subscription. Taker symbol can be adjusted if really necessary and not configurable on the connecting platform
Liquidity Model	Yes	*Aggregated_pool, ABC_LM*	When you assign a Liquidity Model to the Taker Feed, you are making sure that this particular feed is receiving prices from the Maker(s) assigned in that Liquidity Model. One Maker: If only 1 Maker is assigned to the Liquidity Model, then your Taker Feed is entitled to receive prices from this Maker only. Multiple Makers: If there is more then one Maker assigned to the Liquidity Model then your Taker Feed is entitled to receive prices from both the makers as Aggregated Feed.
Markup Model	Yes	*Retail_markup, Plain_markup,*	By assigning the Markup Model here, all the settings from this Markup Model will be applied on the Raw prices from the Maker i.e. the Liquidity Model and

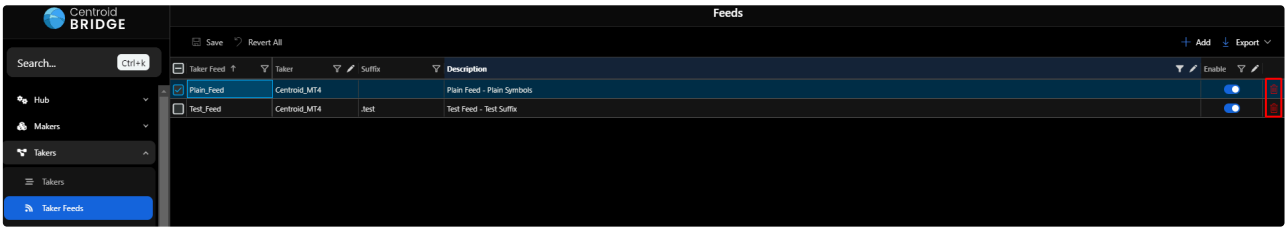
		10Points_markup	then streamed to your Taker. Only one Markup Model can be selected for one Taker Feed while creating the TF however, furthermore ,you can configure symbol wise manually.
Feed Mode	Yes	*Aggregate, Layer*	The pricing mode to be used by the Feeder/TF. • Aggregate: The Centroid Bridge sends to the Taker the quotes in the liquidity book, as received from the Maker(s) • Aggregate_IOC: The Centroid Bridge combines all similar quotes in the liquidity book, sums up the respective liquidity, and streams into clients as one quote • Layer: The Centroid Bridge constructs an artificial liquidity book based on the Levels defined in Levels where it fills each Level with the best prices with sufficient volume to match the volume defined at the respective Level (layer). Only one quote per Level will be sent. • Layer_IOC: The Centroid Bridge constructs an artificial liquidity book similar to Layer mode yet the only difference is that in each Level it would show the VWAP price matching the volume specified at each Level • Volume: when multiple quotes in the liquidity have the same volume, the Centroid Bridge streams only one quote with the best price
Min Volume	Yes	*1000*	The minimum volume to appear at the TOB. Note: A multiplier value of 100 should be accounted for in the minimum volume Example: If Min Volume is set to 25M (250K x 100) and the liquidity book has the following: • 100K @ Level 1 • 500K @ Level 2 • 1M @ Level 3 Then the Centroid Bridge will stream the following: • 250K @ Level 1 • 500K @ Level 2 • 1M @ Level 3
Depth	Yes	*1,3,5*	The number of layers to be streamed to clients. Example: If Depth is set to 1, only the TOB will be streamed If Depth is set to 5, the Centroid Bridge will stream the first five layers, provided that the liquidity book has 5 or more layers
Feed Source	Yes	*A_BOOK, B_BOOK*	The liquidity book that will be used to update clients about book consumption and available liquidity in the price updates. The Centroid Bridge maintains two separate books, A and B, and keeps track of the available liquidity separately. When an A-Book Order is placed the A-Book liquidity book will be affected and vice versa. It's advisable to use the A-Book mode with clients placed on the A-Book and B-Book for clients placed on the B-Book
Feed TOB Volume	Yes		It defines a TOB value to be streamed into the Taker irrespective of the actual Liquidity Book and its TOB value. Example: If Feed TOB Volume is 10M, Taker would always see 10M at TOB irrespective of the real Liquidity Book and its TOB

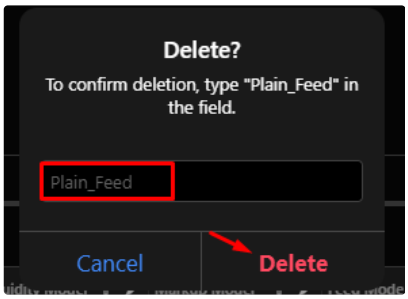
Feed Mult	Yes	*1,2,3*	A multiplier by which the available liquidity in the book is multiplied, for the purpose of showing more liquidity. The multiplier is a positive value greater or equal to 1. Example: If Feed Mult is set to 3 and available liquidity is as follows: • 1M @ Level 1 • 2M @ Level 2 Then the Centroid Bridge will show: • 3M @ Level 1 • 6M @ Level 2
Price Mode	Yes	*Various, Midpoint*	Defines whether floating or fixed spreads are used for price streaming. • Various: The Centroid Bridge just adds the markups defined in Markup Models to the bid and ask price respectively. • Midpoint: The Centroid Bridge streams prices with fixed spreads. The Centroid Bridge first calculates the mid price (bid price + ask price/2) then adds the bid and ask markups (defined in the Markup Model) to each side of the price.
Interval	Yes	*100, 200, 300*	The time interval, measured in milliseconds, specifies the frequency at which the Taker Feed allows new price updates to the assigned taker. This interval determines how often the taker receives the most recent prices.
Session	Yes	*MON,00:00-23:59*	Defines the time of the day during which the Taker Feed will be streaming All days of the week should be included and separated by semicolon ";" along with the time interval during the day. 00:00-00:00 represents a closure during a particular day
Description	No		A short description for reference purposes that is copied automatically from the description defined in Symbols
Enable	Yes	*Enabled, Disabled*	Indicates whether the Trader Feed is enabled or disabled for the selected Symbol. • If ticked, quotes will be streamed on that Symbol • If unticked, quotes will be switched off on that Symbol

Deleting a Taker Feed

To delete a Taker Feed

1. Click the **"Delete"** icon next to the desired Taker Feed
2. To confirm deletion, type the name of the Taker Feed in the field.
3. Click on the **"Delete"** button to confirm the deletion

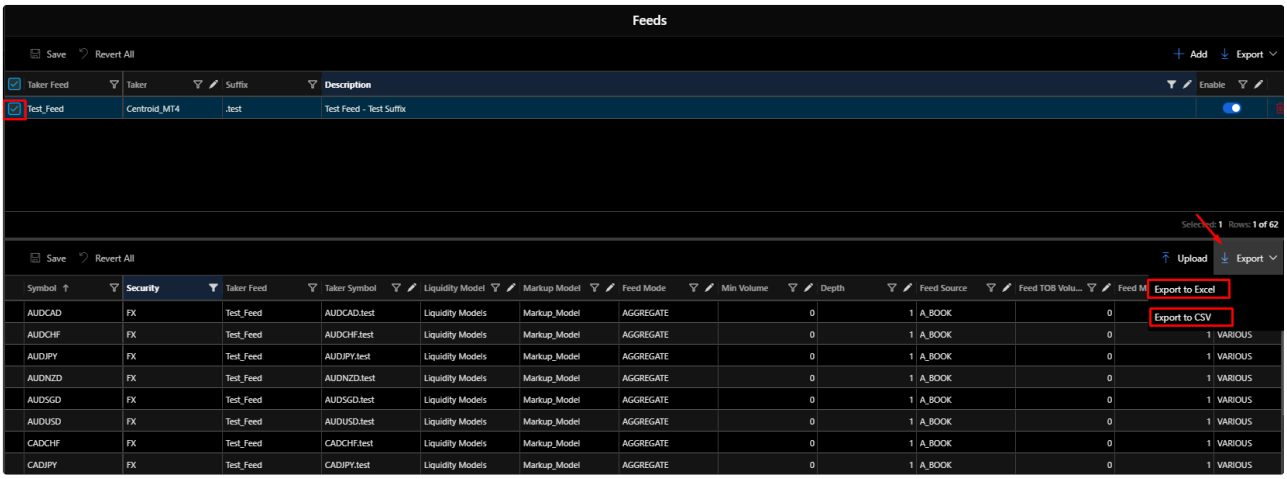




Exporting a Taker Feed

To export a Taker Feed

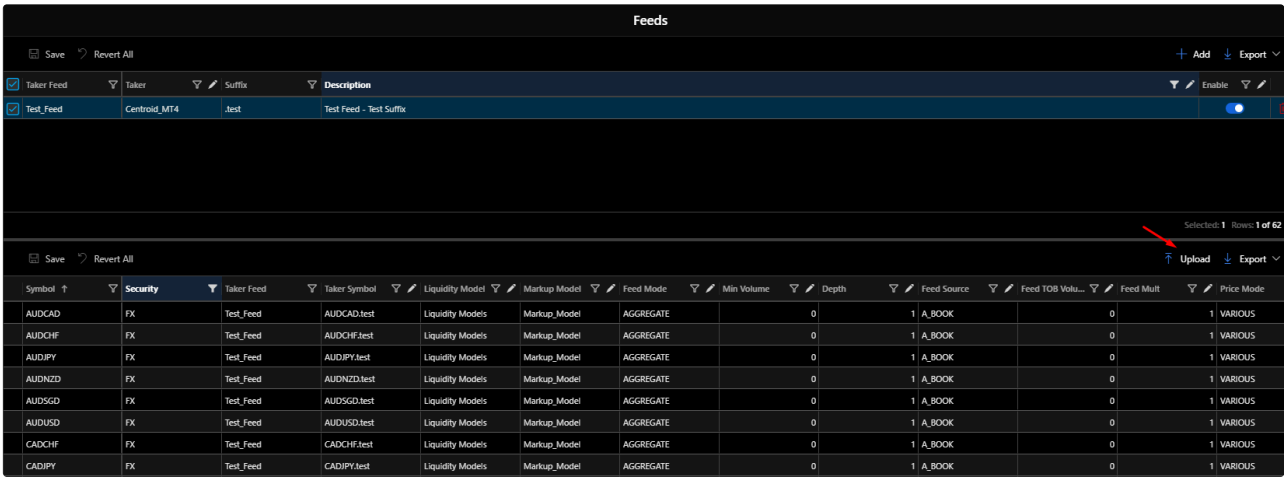
1. Select the desired Taker Feed from the list
2. Tick the checkbox to select a Taker Feed
3. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



Uploading a Taker Feed

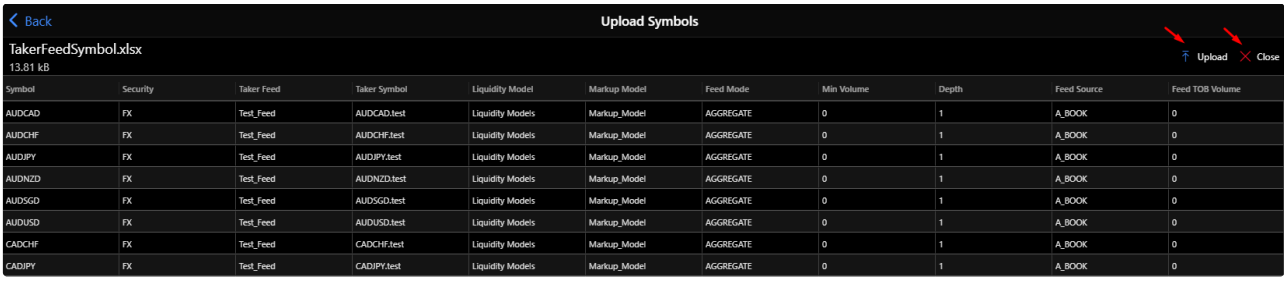
To upload a Taker Feed symbol settings

1. Click on the **"Upload"**



2. Click on **"Drop File"** and select the File or drag the file to this section to upload.

3. To successfully upload the Taker Feed values, click on **"Upload"**



Symbol	Security	Taker Feed	Taker Symbol	Liquidity Model	Markup Model	Feed Mode	Min Volume	Depth	Feed Source	Feed TOB Volume
AUDCAD	FX	Test_Feed	AUDCAD.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
AUDCHF	FX	Test_Feed	AUDCHF.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
AUDJPY	FX	Test_Feed	AUDJPY.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
AUDNZD	FX	Test_Feed	AUDNZD.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
AUDSGD	FX	Test_Feed	AUDSGD.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
AUDUSD	FX	Test_Feed	AUDUSD.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
CADCHF	FX	Test_Feed	CADCHF.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0
CADJPY	FX	Test_Feed	CADJPY.test	Liquidity Models	Markup_Model	AGGREGATE	0	1	A_BOOK	0

4. You also have the option to discard the bulk upload by clicking on the **"Close"** Button

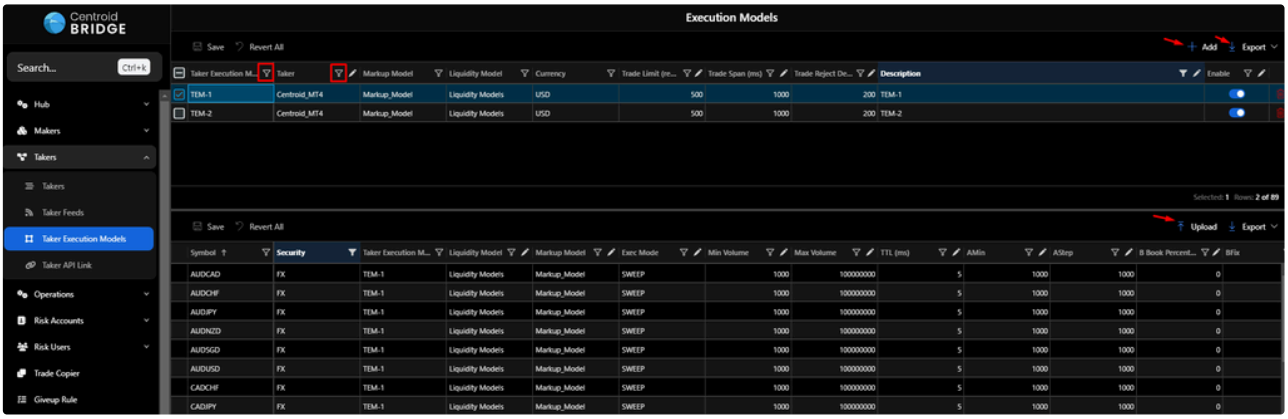
Taker Execution Model

Overview

A Taker Execution Model can be thought of as a Trading or Execution Account in the Centroid Bridge defined for one or multiple Takers with execution settings configured on a per Symbol basis. Takers can target different Taker Execution Models defined in the Centroid Bridge for the purpose of routing Orders based on different execution settings pertaining to different types of clients. The Taker Execution Model can be configured down to the level of individual Symbols.

Within this module, you have the capability to:

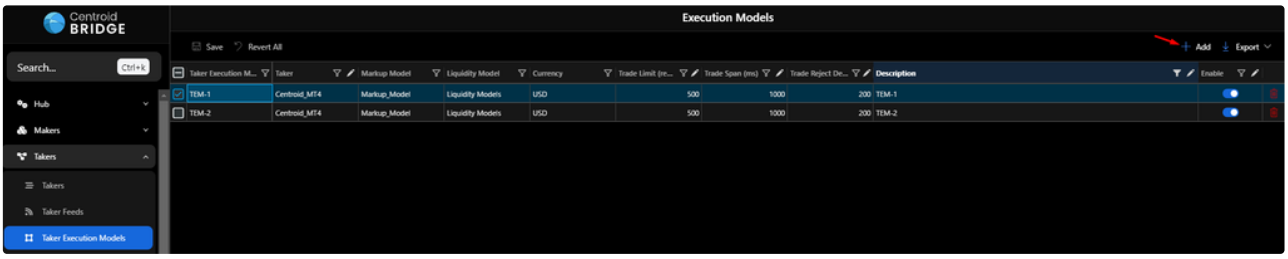
- **Create a New Taker Execution Model:** Initiate the setup for a new Taker Execution Model.
- **Enable/Disable Global Settings:** Enable or disable a Taker Execution Model at a global level, applying changes across all available models and Symbols.
- **Filter Taker Execution Models:** Categorize Taker Execution Models based on various criteria for easier identification.
- **Configure Specific Model:** Enable/Disable a particular Taker Execution Model and configure its parameters, affecting all associated Symbols.
- **Delete Taker Execution Model:** Remove an existing Taker Execution Model from the system.
- **Export Taker Execution Models:** Save the list of Taker Execution Models to Excel or CSV for external reference.
- **Filter and Look up Symbol Settings:** Streamline Symbol configuration by searching and filtering within a Taker Execution Model.
- **Configure Bulk Symbol Settings:** Use the Edit icon to adjust settings for multiple Symbols at once, either for all or a filtered group.
- **Configure Model Symbol Settings:** Fine-tune settings for a specific Symbol within a Taker Execution Model.
- **Export Symbol Settings:** Save the configured settings of a particular Taker Execution Model's Symbol to Excel or CSV.
- **Upload Modified Settings:** After making changes offline, re-upload the modified file to implement the necessary adjustments.



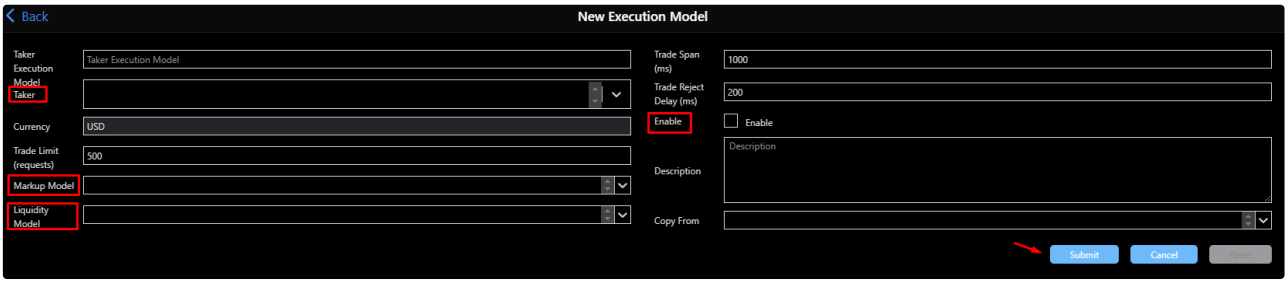
Creating a Taker Execution Model

To create a Taker Execution Model

1. Click the **"Add"** button to create a new Taker Execution Model



2. Fill out the Wizard. You may refer to the field descriptions hereafter
3. Click **"Submit"** to submit the changes



Field	Possible Values	Description
Taker Execution Model	*TEM-1, Test_TEM, A-Book_TEM*	A unique name of the Taker Execution Model
Taker	*Centroid_MT4, Centroid_MT5*	The Taker(s) to which the Taker Execution Model is assigned. You may select one or multiple Takers. Assigning the Taker means this Taker will be targeting this TEM.
Currency	*USD*	The Currency of the Taker Execution Model into which all calculations will be converted. USD is the **default** and **only available option**
Trade Limit	*500, 700*	The maximum number of Order requests the Centroid Bridge will process, within a specified period of time, defined in Trade Span hereafter
Markup Model	*Markup_Model, 10PTS_MM*	The Markup Model defines the markups to be added on top of the raw prices at the Time of Execution.
Liquidity Model	*Liquidity_Model*	The Liquidity Model that will be assigned to the Taker Execution model indicates the Maker(s) the Orders will be sent to. Depending on the BBook% settings if the TEM is A Book or B Book. If A Book, please check the below conditions • If the Liquidity Model comprises One Maker only, Orders will be routed to that one Maker. • If the Liquidity Model comprises more than one Maker, Orders will be routed to different Makers and executed with the Maker depending on the factor that which Maker is advertising the best price during the time of execution.
Trade Span	*1000ms, 1200ms, 1500ms*	A time interval, in milliseconds, associated with Trade Limit which specifies the period of time during which the Trade Limit will be applicable
Trade Reject Delay	*200ms, 400ms*	A time delay in milliseconds, by which the rejection replies occurring from Trade Limit will be delayed, in the event of breaching the maximum number of allowed trade

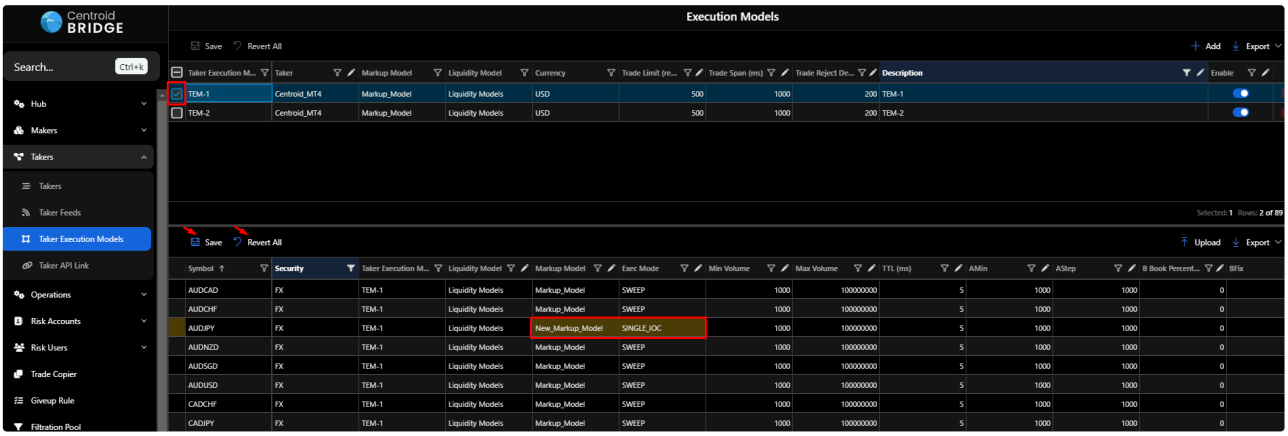
		requests, specified in the Trade Limit
Enable	*Enabled, Disabled*	Indicates whether the Taker Execution Model is enabled or disabled • If ticked, the Taker Execution Model will be enabled for trading upon creation • If unticked, the Taker Execution Model will be fully switched off upon creation, hence no Orders will be executed through this Taker Execution Model
Description		A short description for reference purposes
Copy From		It allows to copy all the settings from an existing Taker Execution Model

Note: Settings configured during the creation of the Taker Execution Model will be applicable across all Symbols. You will still be able to modify and customize the settings of particular Symbols individually as explained hereafter.

Configuring Taker Execution Model

To Configure or modify a Taker Execution Model

1. Click on the checkbox next to the Taker Execution Model name to select it
2. Configure the settings on a symbol level
3. Click the **"Save"** button to apply the modifications.
4. Click the **"Revert All"** button to undo the changes that have been made



Field	Editable	Possible Values	Description
Symbol	No	EURUSD, XAUUSD	The name of the Symbol to be configured, as defined in Symbols
Security	No	FX, Crypto	The Security into which the Symbol is grouped, Default settings copied from the Symbol from the Hub Module.
Taker Execution Model	No	*TEM_A, TEM_B*	The name of the Taker Execution Model being configured
Liquidity Model	Yes	*Aggregated_Model*	The Liquidity Model that will be assigned to the Taker Execution model indicates the Maker(s) the Orders will be sent to. Depending on the BBook% settings if the TEM is A Book or B Book. If A Book, please check the below conditions

			• If the Liquidity Model comprises One Maker only, Orders will be routed to that one Maker. • If the Liquidity Model comprises more than one Maker, Orders will be routed to different Makers and executed with the Maker depending on the factor that which Maker is advertising the best price during the time of execution.
Markup Model	Yes	*Plain_Markup* *5Points_Markup*	The Markup Model defines the Markups to be added on top of the Raw Prices when Orders are executed on the Taker level. **Note:** The Markup assigned here is not sent to the LP while execution which means LP execution is on the Raw Price, but the Markup is only added on top of the Raw Price when sending the confirmation from the Bridge to the Taker/Client.
Exec Mode	Yes	*Sweep* *Single_FOK* *Single_IOC*	The execution mode to be used when executing an Order. • **Sweep:** The Centroid Bridge sweeps the available liquidity book from top to bottom (best to worse) until the Order is fully or partially filled • **Single_IOC:** The Centroid Bridge targets one quote (layer) of the liquidity book that has enough volume and the best price to fill the Order entirely or partially. In case no quote is available to fully fill the Order, it will be sent to the one that has the largest volume from the available Book, also partial filling is allowed when executing orders with Single_IOC. • **Single_FOK:** The Centroid Bridge targets one quote (layer) of the liquidity book that can fill the entire size of the Order. If no quote with sufficient volume is found, the Centroid Bridge reports a rejection after the TTL has expired which means No Partial Filling is allowed when executing orders with Single_FOK.
Min Volume	Yes	*1000*	The minimum order size, in notional volume, is to be processed by this Taker Execution Model. Any volume below the specified amount will be rejected. ***Example:*** Taker: MT5/MT4/cTrader Symbol: EURUSD Contract Size: 100000 Min Lot on Application level: 0.01 Minimum Volume to be set on the bridge level: 0.01*100000 = 1000 Formula: Min Volume = Platform Min Lot x Contract Size
Max Volume	Yes	*100000000*	The maximum Order size, in notional volume, to be processed by this Taker Execution Model. Any volume beyond the specified amount will be rejected as "***above max vol"*** Formula: Max Volume = Platform Max Lot x Contract Size
TTL	Yes	*300 ms*	This settings is in milliseconds, this component means, it will re-attempt to fill the rejected orders if it is within the TTL time.
AMin	Yes	*1000*	This component is same as the Min Volume, but as the name suggests this component is strictly restricted for A book orders. Which means as a client you can set a Minimum volume that you wish to send to your LP. If this condition is not satisfied then the order will be booked as B Book irrespective of the BBook % defined on the TEM level.
AStep	Yes	*1000* *The value is in Volume.*	The step value in notional volume that represents the increment of the Order Anything that does not comply, the remainder will be b booked Example: If AStep is 3000, an Order of 5000 will be split as follows:

			• 3000 sent to STP • 2000 executed as B Book Note: By default, this will also be used as Order Step validation unless configure otherwise in description.
B Book Percent (0-100)	Yes	*0, 50, 100*	The percentage of Order to be internalized (bbooked) in the Centroid Bridge. The remainder is sent to the Maker as STP. The percentage is a number between 0 and 100, where 0 represents a full A-Book Order whereas 100 represents a full B-Book Order. Example: If Book Percent is set to 80 then 80% of the Order will be b-booked while the remaining 20% will be sent as STP.
BFix	Yes	*5000* *10000*	If you enter a value of 5000 under BFix, the centroid bridge will compare the TOB from the Maker, if the advertised volume from the Maker is less than 5000, then the BFix value will be New Available TOB for BBook.
BBoost	Yes	*1,2,3*	This is only relevant to B-Book execution where the value defined in here is a multiplier by which each layer of the liquidity book is multiplied. The BBoost value is always equal or greater than 1. Example: If liquidity book is made up of 3 layers: Layer 1: 500K Layer 2: 1M Layer 3: 3M Applying a BBoost factor of 3, the liquidity book would become as follows: Layer 1: 1.5M Layer 2: 3M Layer 3: 9M
BDelay From	Yes	*100,200,300*	This is only relevant to B-Book execution. It represents the first interval of a random time delay applicable to execution in order to simulate the A-Book execution
BDelay To	Yes	*120,220,320*	It represents the second interval of a random time delay applicable to execution in order to simulate the A-Book execution. The Order gets executed at the market price, after the delay has elapsed. The below formula is used to calculate the final outcome of the delay that will be enforced on the execution: Delay = Random (BDelay From, BDelay To) Example: If BDelay From is 100 ms and BDelay To is 120 ms, Delay would be Random (100 and 120)
Gain Perc	Yes	*0,50,100*	In the event of encountering a price improvement or positive slippage, the percentage of improvement that will be reported to clients i.e. the difference between Requested Price and Execution Price • 100 means the Broker would keep all the improvement without passing on any percentage to the client • 0 means the Broker would pass all the improvement on to the Client
Multiplier	Yes	*0.5,2,10*	A multiplier by which the order size will be multiplied prior to sending the order request to the Maker. Example: If Multiplier is set to 2 and client trades 100,000 EURUSD, an order request of 200,000 EURUSD will be sent to the Maker.

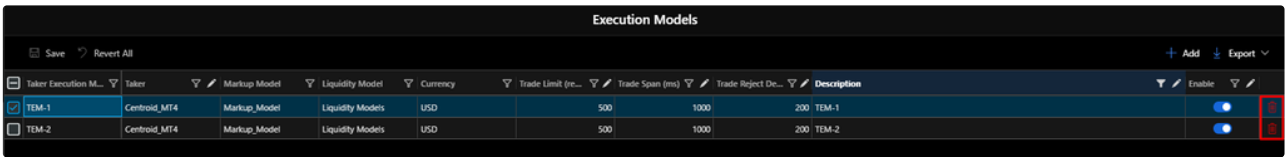
LL Variation	Yes	*10, 20, 30*	LL Variation is only relevant for B Book Execution and works along with the other parameters such as BDelay From, BDelay To, Gain Perc and the action depends on the parameters selected under LL Action. This can be configured in points, where the Centroid Bridge will scan the book then compare the previous price and new price. If the difference between the two price is above or below the LL Variation then LL action will be triggered 1. If the difference between the new price after delay and the old price is within the LL Variation: - If the new price is worse, the client gets the worse price 2. If the new price is better, the client gets a percentage of the price difference depending on the percentage specified in the Gain Perc parameter 3. If the difference between the new price after delay and the old price is outside the LL Variation, the Centroid Bridge would execute based on the selection in LL Action as explained hereafter ***Note:*** *-1 means that this parameter is not enabled*
LL Action	Yes		Indicates how to handle Orders if the difference between new price after delay and old price is greater than the LL Variation on one side, or could be used to override the normal execution in terms of request price. Price Difference after delay: • Reject: The Centroid Bridge would reject the Order if the difference of the new price after delay and old price is outside the LL Variation • Accept: Checks if the new price is in client's favor or not 1- If new price is in broker's favor (against client), client gets the new price 2- If new price is in client's favor, the client gets a percentage of the price difference depending on the percentage specified in Gain Perc parameter **Execution Parameters:** **CONFIRM_BY_REQ_PRICE**: Confirms order by request price as B Book irrespective of the B Book Percentage Parameter, without even processing the Order via the normal execution flow **PROC_CONFIRM_BY_REQ_PRICE**: Processes the Order and returns the requested price to the client irrespective of the actual execution price, for both A and B Book Orders **PROC_CONFIRM_BY_REQ_PRICE_B**: Processes the Order and returns the requested price to client only for B Book execution whereas returning the actual execution price to client for A Book execution **Note**: For PROC_CONFIRM_BY_REQ_PRICE, clients may incur losses on A Book trades in the event of order slippage
B Slip Threshold	Yes	*1, 2, 5*	Configurable in points, it will absorb negative slippage according to the configured value, provided it does not exceed the B Slip Max Accept value or if the B Slip Max Accept is configured as 0 This feature is specifically intended for scenarios involving negative slippage. It is applicable only to B Book trades, including of a 50% allocation for A Book and 50% for B Book. The calculation of negative slippage will be based on the raw price, excluding any markups. You can use B Slip Threshold and B Slip Percentage independently or together.

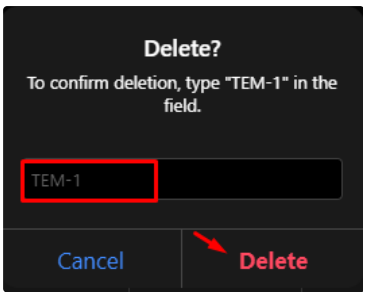
			The calculation of the threshold will take place prior to the percentage.
B Slip Percentage	Yes	*5%, 10%, 50%*	Configurable in percentage, this will additionally absorb any remaining negative slippage after the B Slip Threshold, or it can function independently in determining the extent of negative slippage absorption, as long as it does not surpass the B Slip Max Accept This feature is specifically intended for scenarios involving negative slippage. It is applicable only to B Book trades, consisting of a 50% allocation for A Book and 50% for B Book. The calculation of negative slippage will be based on the raw price, excluding any markups. You can use Threshold and Percentage independently or together. When using Percentage Absorption, if it yields a value of 0.5, the absorbed slippage will consistently be rounded in favor of the broker. For instance, if the negative slippage is 7, the percentage is 50, resulting in 3.5 points, the absorption will be 3points.
B Slip Max Accept	Yes	*25, 50, 65 [in points]*	Configurable in points, it sets the maximum negative slippage that the broker can absorb after applying the B Slip Threshold and B Slip Percentage settings. This feature is specifically intended for scenarios involving negative slippage. It is applicable only to B Book trades, consisting of a 50% allocation for A Book and 50% for B Book. The calculation of negative slippage will be based on the raw price, excluding any markups. B Slip Max Accept will always prevail or take precedence over the total negative slippage resulting from B Slip Threshold, B Slip Percentage, or a combination of B Slip Threshold and B Slip Percentage.
Session	Yes	*MON,00:00-23:59*	Defines the time of the day during which the Taker Execution Model will be available for trading. All days of the week should be included and separated by semicolon “;” along with the time interval during the day. 00:00-00:00 represents a closure during a particular day
Description	No		A short description for reference purposes that is copied automatically from the description defined in Symbols
Enable	Yes	*Enabled, Disabled*	Indicates whether the Symbol is enabled or disabled for the selected Taker Execution Model • If ticked, order requests of the particular Symbol will be processed via the Taker Execution Model • If unticked, no order requests will go through

Deleting a Taker Execution Model

To delete a Taker Execution Model

1. Click the **“Delete”** icon next to the desired Taker Execution Model
2. To confirm deletion, type the name of the Taker Execution Model in the field.
3. Click on the **"Delete"** button to confirm deletion.

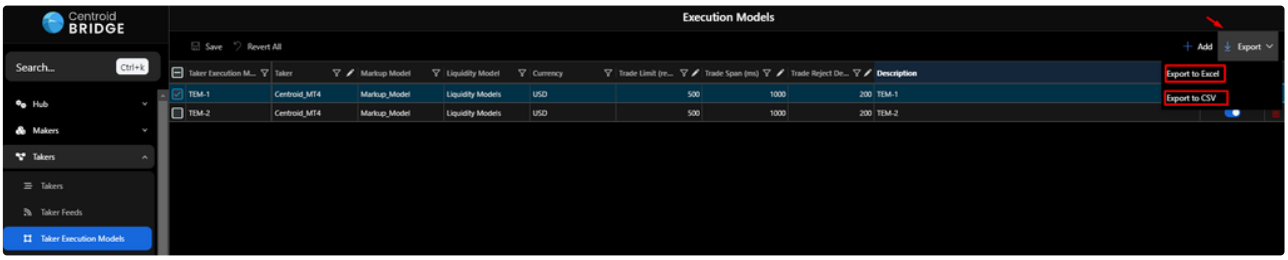




Exporting Taker Execution Models List

To Export the listed Taker Execution Model

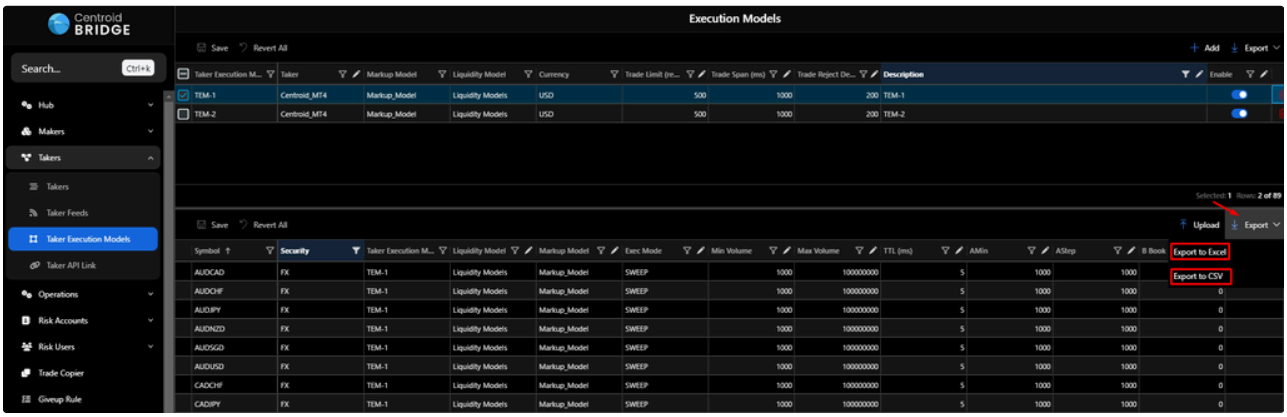
1. Click on the **"Taker Execution Models"** Tab.
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



Exporting a Taker Execution Model Symbol Setting

To Export Takers Execution Model Symbol Settings

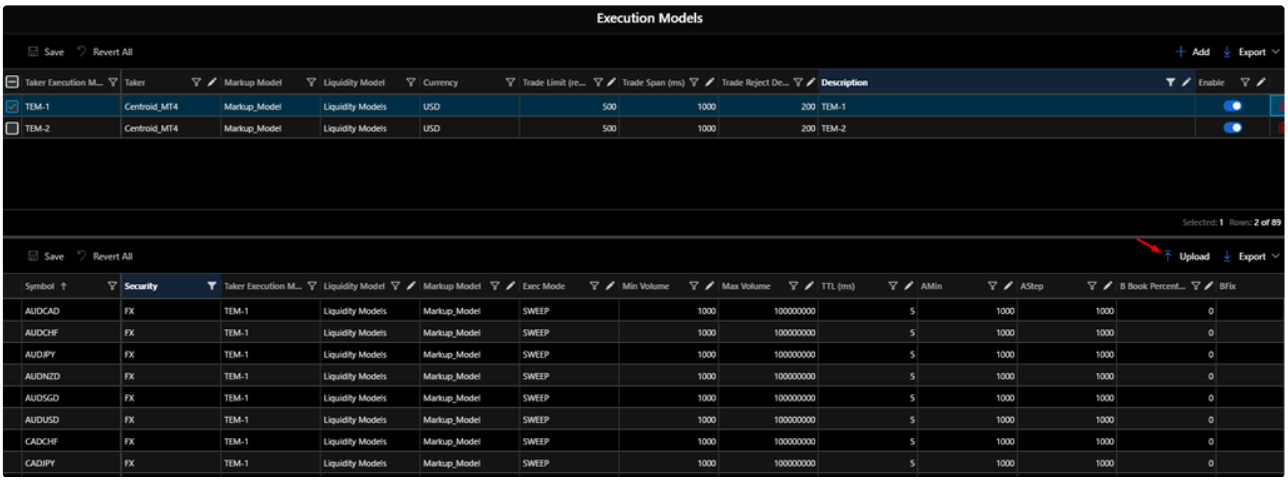
1. Select the desired Taker Execution Model from the list
2. Click **Export** → **Export to Excel / Export to CSV**



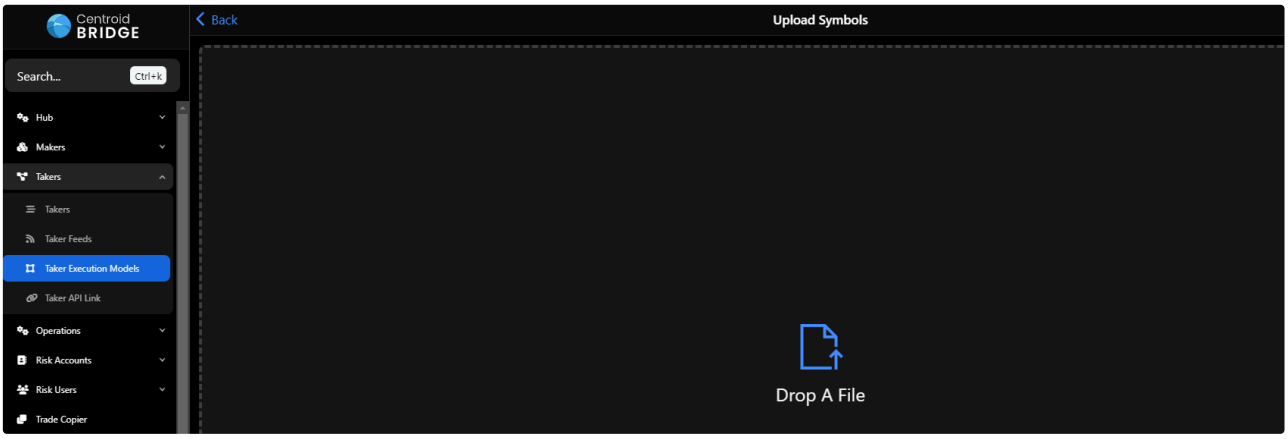
Uploading a Taker Execution Model

To Upload Takers Execution Model Symbol Settings

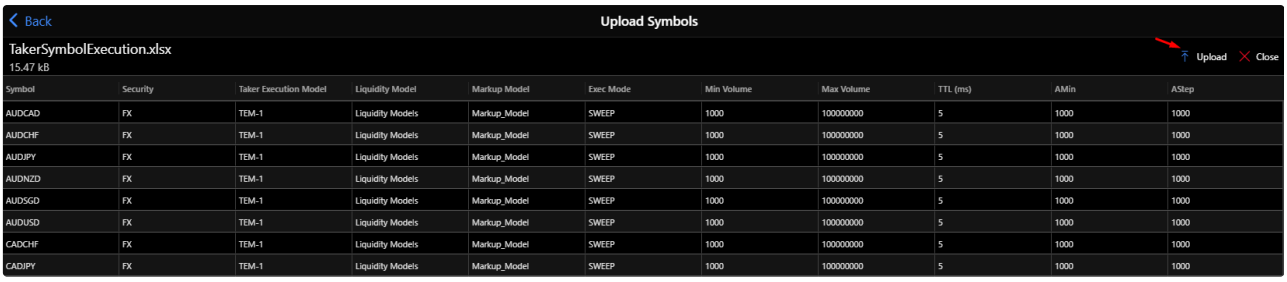
1. Click on **"Upload"**



2. Click on **"Drop File"** and select the File or drag the file to this section to upload.



3. To successfully upload the values, click on **"Upload"**.



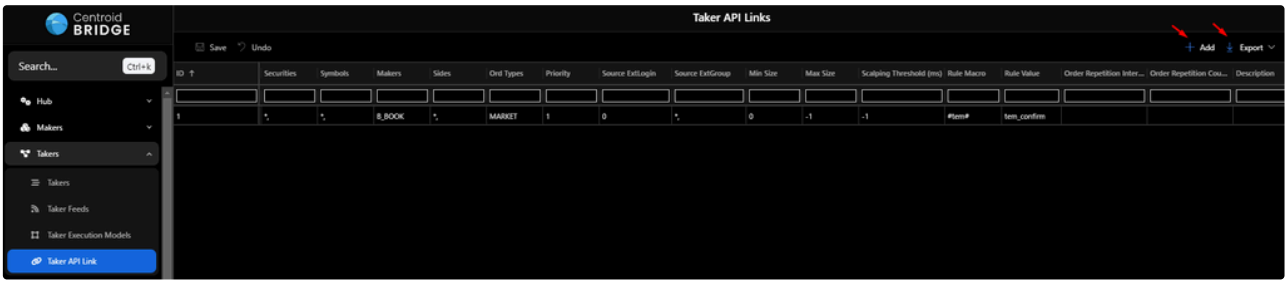
Taker API link

Overview

The Taker API link is a versatile functionality capable of serving multiple purposes. For every order that the bridge receives to broker can control the flow and modify the order. It can redirect trades to another Taker Execution Model based on predetermined conditions, add custom tags for the Maker API Link, identify scalpers and trade patterns, and redirect them accordingly. The Bridge performs Taker API Link verification among its initial checks before trade execution.

In this component, you will be able to do the following:

1. Create a new Taker API Link
2. Filter the current configured Taker API Links by different criteria
3. Enable/Disable a particular rule
4. View and edit a current configured Taker API Link
5. Delete a Taker API Link rule
6. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



Creating a Taker API Link rule

To create a Taker API Link rule

1. Click **“Add”** button to create a new Taker API Link rule

2. Fill out the Wizard. You may refer to the field descriptions below
3. Click **“Submit”** to submit the changes

Field	Possible Values	Description
ID	*1,2,3,10*	A unique ID number for the configured rule
Takers	*Centroid_MT5, Centroid_MT4*	Select one or multiple Takers to be included in the configuration as source(s) You may select the Takers from the available list of Takers or enter comma separated values manually by ticking the “Pattern” tick box
Taker Execution Models	*TEM-1, TEM-2, Test_TEM*	Select one or multiple Taker Execution Models to be included in the configuration as source(s) You may select the Taker Execution Models from the available list of Taker Execution Models or enter comma separated values manually by ticking the “Pattern” tick box
Securities	*FX, CFD*	Select one or multiple Securities from the available Securities in the Centroid Bridge to be included in the configuration. You may select the Securities from the available list of Securities or enter comma separated values manually by ticking the “Pattern” tick box
Symbols	*EURUSD, XAUUSD*	Select one or multiple Securities from the available Symbols in the Centroid Bridge to be included in the configuration. You may select the Symbols from the available list of Symbols or enter comma separated values manually by ticking the “Pattern” tick box
Makers	*Liquidity Provider*	Select one or multiple Makers to be included as a Target to which the Orders are routed. You may select the Makers from the available list of Makers or enter comma separated values manually by ticking the “Pattern” tick box
Sides	*Buy, Sell, All*	Select the side of the Order if you need to pass on values for a particular side, such as Buy or Sell. Otherwise, just select “*” to include all Order sides
Ord Types	*Market, Limit*	Select the type of the Order if you need to pass on values for a particular execution type, such as Market, Limit or Stop. Otherwise, just select “*” to include all Order types
Source ExtLogin		MT4/MT5 Login number for Takers of type MT4/MT5 ***Default Value = 0 (all logins)***

Source ExtGroup		Name of MT4/MT5 Group for Takers of type MT4/MT5
Rule Macro	*#tem#*	Select the predefined Macros from the dropdown by inputting #. In the subsequent table, we will outline the definitions for the available macros.
Rule Value	*tem_b*	The value to be assigned to the Rule Macro. *For example: If the Rule Macro is **#tem#** then the Rule Value = **tem_b.***
Priority	*1-10*	The priority is essential in the event of having overlapping configurations and defines which configuration should supersede. The configuration with the highest Priority always supersedes.
Min Size	0	Min size sets the lower limit in Volume for the Scalping threshold. Trades falling below Min Size won't qualify for the scalping threshold. **Note:** *Minimum Size, Maximum Size, and Scalping Threshold are interrelated and function together.* ***Default Value = 0***
Max Size	1000	Max size sets the upper limit in Volume for the Scalping threshold. Trades falling above Max Size won't qualify for the scalping threshold. **Note:** *Minimum Size, Maximum Size, and Scalping Threshold are interrelated and function together.* ***Default Value = -1 (disabled)***
Scalping Threshold (ms)	300	Threshold in milliseconds to qualify for the Scalping threshold. It will be the time interval between opening & closing a trade. **Note:** *Minimum Size, Maximum Size, and Scalping Threshold are interrelated and function together.* ***Default Value = -1 (disabled)***
Order Repetition Interval (sec)	20	This component is used to detect the interval between two or more order with same volume, same symbol, same side and same login.
Order Repetition Counter	3	In this component you can input the number of time you will allow the repetition of same volume, same symbol, same side and same login.
Description		A short description for reference purposes
Enable	*Enabled, Disabled*	Indicates whether the configuration is enabled or disabled • If ticked, the Taker API Link is enabled upon creation • If unticked, the Taker API Link is disabled upon creation, hence no Tags or Values would be passed on

Note: Below are the available macros that can be used for Rule Macros.

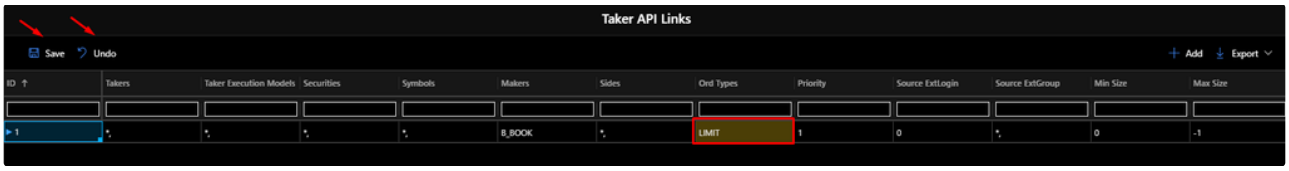
Value	Description
#taker#	The name of the Taker through which the Order was initiated
#tem#	The name of the Taker Execution Model through which the Order was routed
#login#	The MT4/MT5 Login number that placed the Order, in case it was initiated via an MT4/MT5 Taker
#order #	This is relevant to Orders originated from a Taker of type MT4 or MT5. • MT4: Order will send the Ticket Number of the MT4 trade • MT5: Order will send the Order Number of the MT5 trade

#pos#	This is relevant to Orders originated from a Taker of type MT5. It sends the Position Number of the MT5 trade
#group#	The name of the MT4/MT5 Group of the Account that placed the Order, in case it was initiated via an MT4/MT5 Taker
#deal#	This is relevant to Orders originated from a Taker of type MT5. It sends the Deal Number of the MT5 trade
#____#	This can be utilized to create any custom rule macro

Configuring a Taker API Link Rule

To configure a Maker API Link configuration

1. Double-click the desired column(s) in the Taker API Link Configuration.
2. For some columns, you are presented with a pop-up Window where you can edit and click submit as seen below. This process needs to be done separately for each column or parameter
3. Click on **"Save**" to save the changes.

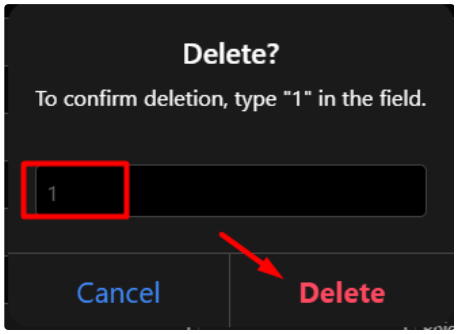


Delete a Taker API Link Rule

To delete a Maker API Link configuration

1. Click the **"Delete"** icon next to the desired Taker API Link configuration

2. To confirm deletion, type the ID of the Taker API Link in the field.
3. Click on the **"Delete"** button to confirm deletion.



Exporting a Taker API Link Rule

To export a Maker API Link configuration

1. Select the desired Taker API Link from the list

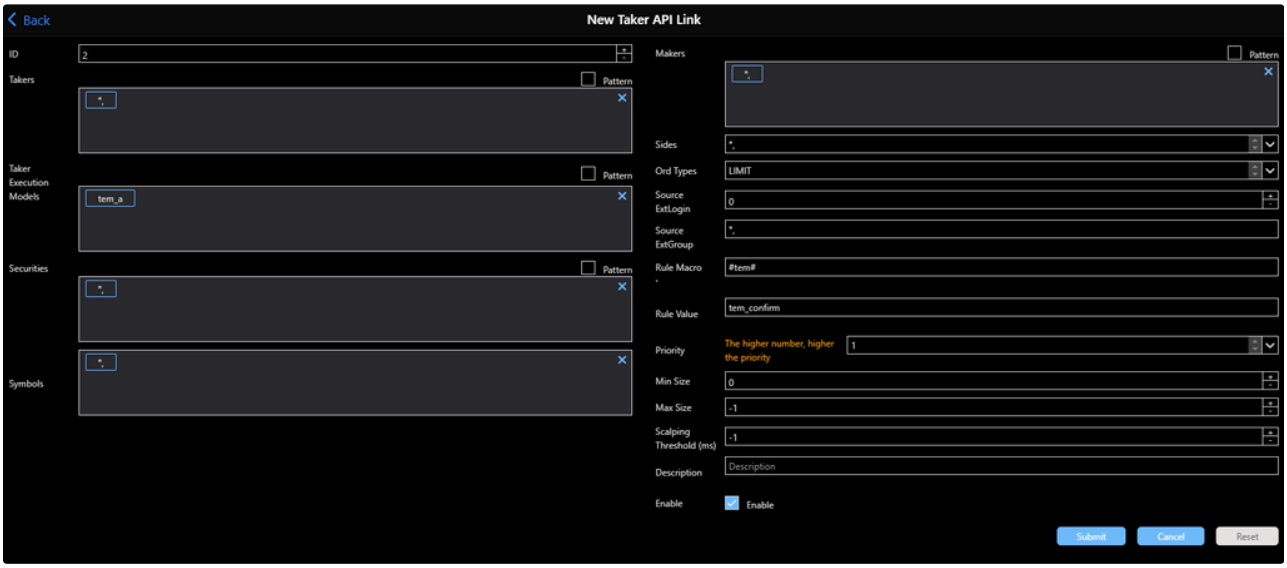
2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”

Case Studies:

Case 1. Route Trades based on Filters.

In the below case study, we'll demonstrate how to route LIMIT orders to a different Taker Execution Model (TEM).

Set the filters as per the requirement and you must configure the Ord Types, Rule Macro and Rule Value.



- Taker Execution Model → **tem_a**
- Ord Types → **LIMIT**
- Rule Macro → **#tem#**
- Rule Value → **tem_confirm**

Explanation: If there are any **LIMIT** trades to be executed using **tem_a**, they will be rerouted to a different TEM - **tem_confirm**

> To redirect trades to another TEM, ensure that the Rule Macro is set to **#tem#**, and the Rule Value contains the name of the specific Taker Execution Model (TEM) where the trades should be rerouted.

Case 2. Modify Maker API link tags using Taker API link

In this case study, we will understand the process of modifying tag1 values before sending them to the Maker for a specific MT4/5 group.

For example, If you have a second account with your liquidity provider and desire to forward trades from a specific MT4/5 group to that account, you can achieve this by utilizing both the Taker and Maker API links together.

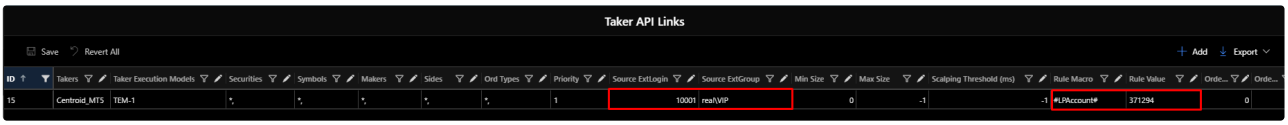
Taker API Link:

Set the filters as per the requirement and you may configure the Source Ext Group, Rule Macro and Rule Value.

- Source ExtGroup → real\VIP
- Source ExtLogin

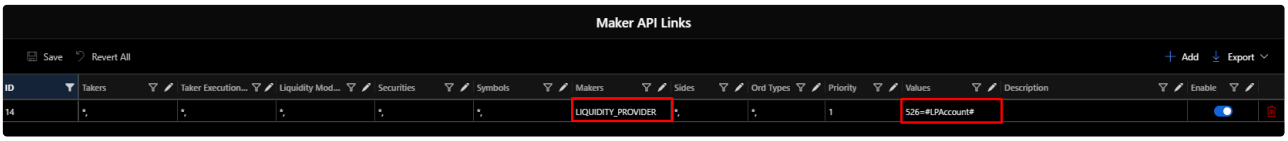
- Rule Macro → #LPAccount#
- Rule Value → 371294

> The Rule Macro can be any unused keyword within the bridge, enclosed by "#" at the beginning and end. The Rule Value will be the tag value to be passed on to the Maker API link.



Maker API Link:

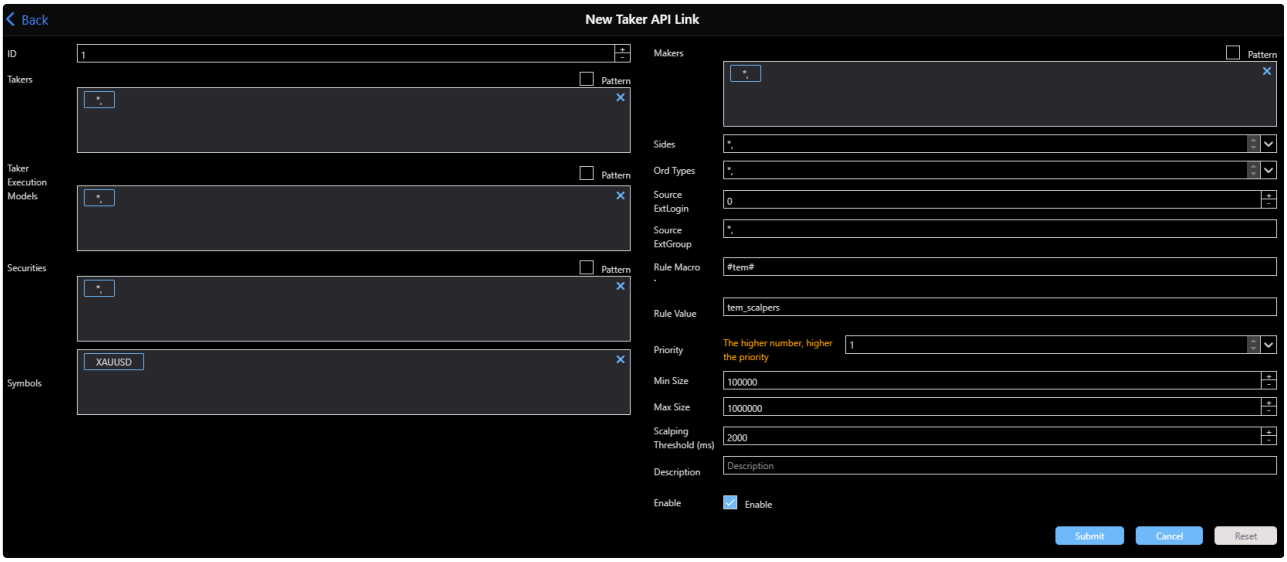
Review the Maker API Link page on creating new rules.



Explanation: All trades executed from **login "10001"** will contain **#LPAccount#=371294** where this **value** will be sent to the maker **"LIQUIDITY_PROVIDER"** via FIX **tag 526** as stated in the Maker API Links rule.

Case 3. Route trades using Scalping Threshold.

Set the filters as per the requirement and you may configure the Min Size, Max Size, Scalping Threshold, Rule Macro and Rule Value.



- Symbols → **XAUUSD**
- Min Size → **1000**
- Max Size → **10,000**
- Scalping Threshold → **2000ms**
- Rule Macro → **#tem#**
- Rule Value → **tem_scalpers**

Explanation: If there are any XAUUSD trades executed within the specified Volume Range of 1000 to 10,000, both opened and closed within 2000ms by the same login, they will be rerouted to a different TEM - **tem_scalpers.**

To redirect trades to another TEM, ensure that the Rule Macro is set to **#tem#**, and the Rule Value contains the name of the specific Taker Execution Model (TEM) where the trades should be rerouted.

Taker Execution Rules

Overview

The **Taker Execution Rules** is an advanced feature that gives brokers enhanced control over the flow and execution of trades across multiple platforms, including MT4, MT5, FIX, and REST API. This functionality enables brokers to define and implement various execution strategies using key parameters such as tag 1, login, group, symbols, and other unique identifiers. Brokers can automate trade routing based on specific criteria, giving them greater control over order flow from different platforms.

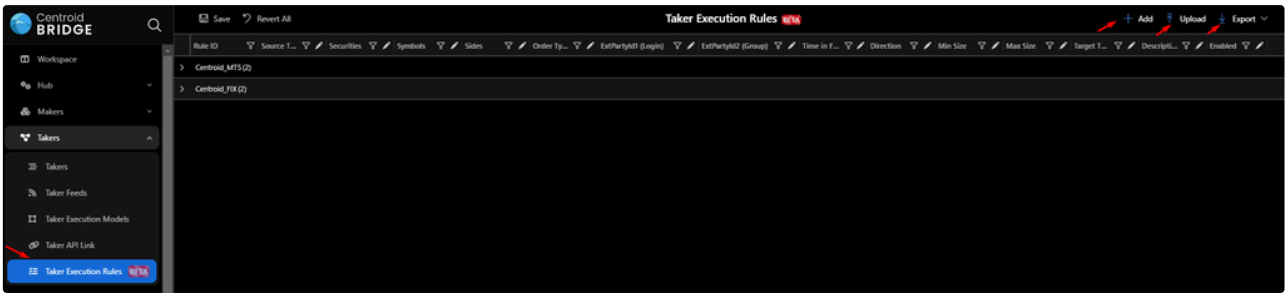
One of the standout features of **Taker Execution Rules** is the ability to modify rules in real-time without the need to restart the bridge or platform plugins. This flexibility allows brokers to respond quickly to changing market conditions or trading behaviors, and seamlessly onboard new execution strategies. The real-time adaptability helps optimize execution flow, ensuring brokers can react instantly, maximizing efficiency and control in trade management.

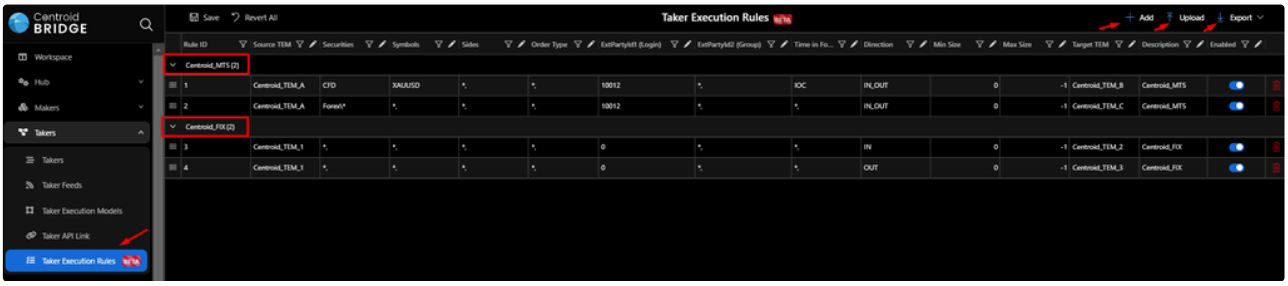
With this feature, brokers can dynamically route orders to different execution models based on pre-set conditions—whether routing trades to a maker via Straight Through Processing (STP) or internalizing them within the Centroid Bridge. Another key benefit is its ability to enhance broker privacy. By eliminating the need to disclose tag 1 accounts to clients, it adds an extra layer of confidentiality, preventing clients from identifying how their trades are being executed.

Taker Execution Rules enhances operational flexibility, enabling brokers to manage trades more effectively and privately, while maintaining compliance with established trading conditions.

Within this module, you have the capability to:

- **Define Custom Execution Strategies:** Set up tailored execution strategies across MT4, MT5, FIX, and REST API platforms.
- **Automate Trade Routing:** Automatically route trades based on key parameters like tag 1, login, group, symbols, and other identifiers.
- **Modify Execution Rules in Real-Time:** Update execution rules instantly without restarting the bridge or platform plugins.
- **Optimize Execution Flow:** Respond to changing market conditions or trading behaviors efficiently by modifying execution strategies on the fly.
- **Route Orders Dynamically:** Direct orders to various execution models, such as STP or internalizing them within the Centroid Bridge.
- **Enhance Broker Privacy:** Conceal tag 1 accounts from clients, adding an extra layer of confidentiality to the trade execution process.

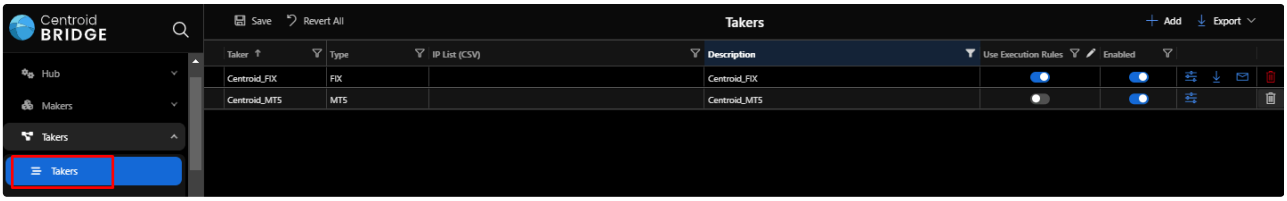




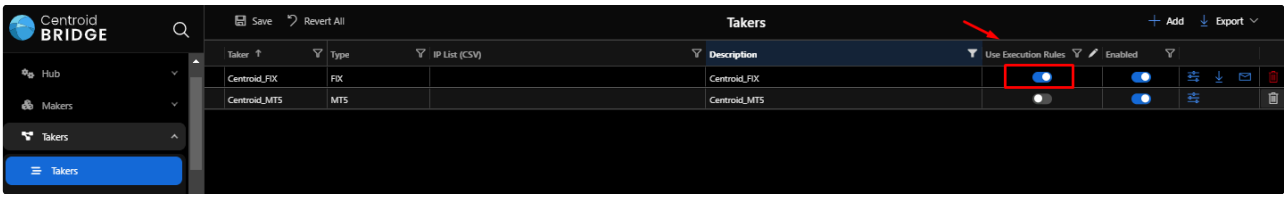
Enabling Use Execution Rules

To enable the “Use Execution Rules” for a specific taker:

1. Navigate to the **Taker Section**



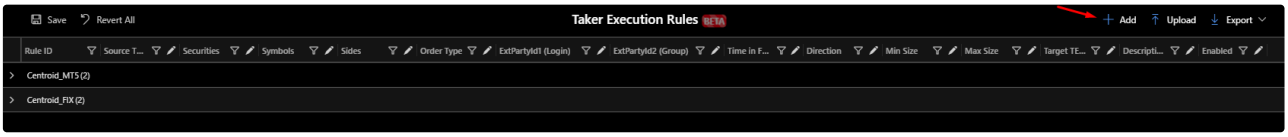
2. Enable the option **"Use Execution Rules"** for the desired taker



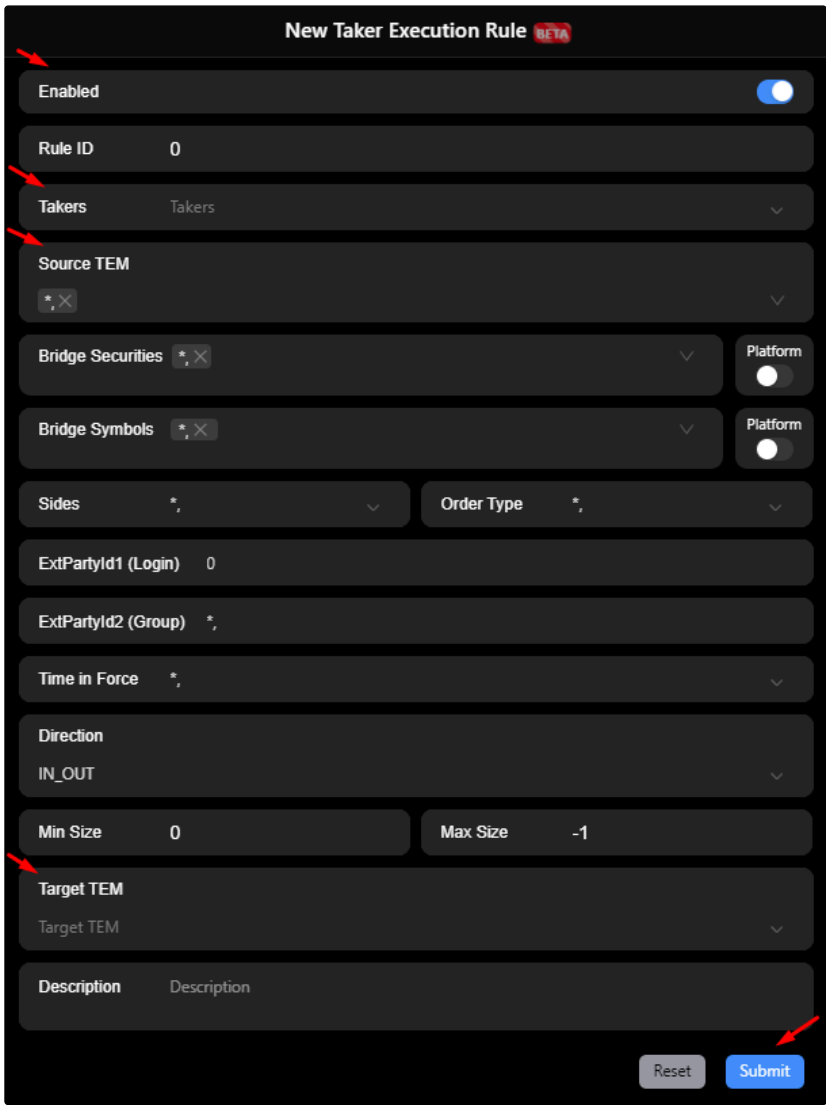
Creating Taker Execution Rules

To create a Taker Execution Rules

1. Click the **“Add”** button on the top right corner



2. Fill out the Wizard. You may refer to the field descriptions hereafter
3. Click **“Submit”** to submit the changes



For FIX Connections applying filters like Logins, Groups, Securities, or Directions, ensure that the required **FIX tags** are included with each trade to ensure proper execution.

Rules won't be active unless '**Use Execution Rules**' is enabled for the specific taker in the Taker section.

Field	Editable	Possible Values	Description
Enabled	Yes	*Enabled, Disabled*	Indicates whether the Taker Execution Rule is enabled or disabled • If ticked, the Taker Execution Rule is enabled. • If unticked, the Taker Execution Rule is disabled.
Rule ID	No	*1,2,3*	A unique ID number for the configured rule
Taker	No	*Centroid_MT5, Taker_FIX*	When creating a rule, you must specify the Taker, as each rule is applied to one platform or Taker.
Source TEM	Yes	*TEM_A, TEM_B*	The Source TEM is the Tag 1 configured at the Taker level, where all trades are sent to the bridge and then redirected to the Target TEM based on Taker Execution Rules. The Tag 1 account also acts as a filter available within the Source TEM for more precise trade routing.

Bridge Securities	Yes	*Bridge Securities: FX* *Platform Securities: Forex**	This option allows you to select or manage securities at the bridge level. When the 'Platform' toggle is activated, the label changes to 'Platform Securities,' indicating that the configuration will apply to platform-specific securities. **Explanation:** *Bridge Securities:* If you specify a Bridge Security here, only the symbols associated with that security will be allowed for execution according to the defined rule. *Platform Securities:* You can specify the securities available on your taker end or platform. Once this is done, only symbols associated with those securities will be allowed for execution according to the defined rules. **Note:** For FIX connections, if a Platform Security filter is applied in the rule, **FIX Tag 90013** must be included with each trade to ensure it follows the correct rule and execution flow.
Bridge Symbols	Yes	*Bridge Symbols: EURUSD,XAUUSD* *Platform Symbols: EURUSD.x,EURUSD.p*	This field allows for symbol managing at the bridge level. If the 'Platform' toggle is enabled, it updates to 'Platform Symbols,' reflecting that the symbol is now managed at the platform level. **Explanation:** *Bridge Symbols:* The 'Bridge Symbols' field allows you to configure symbols at the bridge level. This option is applicable when the 'Platform' toggle is disabled, meaning symbol configuration will follow the bridge-specific settings for routing and execution. *Platform Symbols:* The 'Platform Symbols' field is displayed when the 'Platform' toggle is enabled. This field allows you to manage the symbols that are available on the Taker side or platform end. The mappings configured here will take precedence over bridge-level settings, ensuring that the platform-specific symbols are used for routing and execution.
Side	Yes	*Buy, Sell*	The trade side can be specified by selecting either "Buy" or "Sell." Additionally, the use of a wildcard (*) allows for the inclusion of both sides, providing greater flexibility in trade execution.
Order Type	Yes	*Market, Limit, Stop*	The type of order can be specified by selecting from options such as "Limit," "Market," or "Stop." Additionally, the use of a wildcard (*) allows for the inclusion of all order types, providing greater flexibility in trade execution.
ExtPartyId 1 (Login)	Yes	*10012,10015*	This parameter serves as the unique login identifier for the external party involved in trade execution, enabling accurate order tracking and management. • **MT5**: Specify the MT5 logins in this field. • **FIX**: Specify the logins here, but ensure the corresponding **FIX tag 90001** is included when sending the order to follow the correct rule. **Note:** Multiple accounts can be specified by separating them with a comma (",")
ExtPartyId 2 (Group)	Yes	*RetailGroup*,StandardGroup**	This parameter identifies the group associated with the external party, enabling trade execution based on specific rules applicable to that group. • **MT5**: Specify the MT5 group here. • **FIX**: Specify the group here, but ensure the corresponding **FIX tag 90002** is included when sending the order to apply the correct grouping rule. **Note:** Multiple groups can be specified by separating them with a comma (",")
Time in Force (TIF)	Yes	*FOK, IOC, GTC*	You can choose from the available options i.e. Day, FOK, GTC, GTD and IOC and orders will execute according to your selected settings.
Direction	Yes	*IN, OUT*	You can select “IN”, “OUT” or “IN_OUT” to execute trades based on the directions.

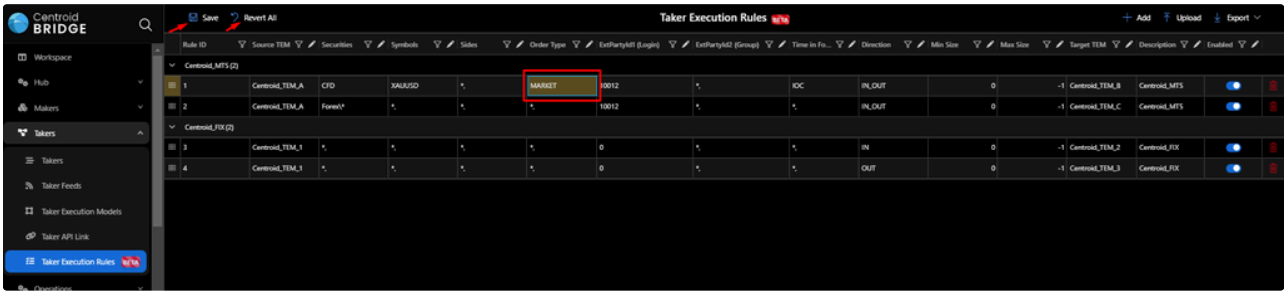
			Note: For FIX connections, if a Direction filter is applied in the rule, **FIX Tag 90014** must be included with each trade to ensure it follows the correct rule and execution flow.
Min Size	Yes	*1000*	Min Size is the minimum trade volume for the rule to apply, ensuring trades below this are not routed by the rule, but it doesn't limit the overall trade size.
Max Size	Yes	*50000*	Max Size is the largest trade volume allowed for the rule to apply, ensuring trades above this limit are excluded, but it doesn't restrict smaller trades.
Target TEM	Yes	*CentroidExecution_TEM*	This is the TEM configured on the bridge where trades are directed. Trades coming from the default account or TEM will be routed to the Target TEM based on the settings you've defined above. This ensures that all trades are managed according to your specified rules, allowing for precise execution and control.
Description	Yes		A short description for reference purposes

Configure Taker Execution Rules

To configure or modify an existing Taker Execution Rules

1. Track the desired Taker Execution Rules
2. Configure the desired fields
3. Click the **"Save"** button on top to deploy the changes

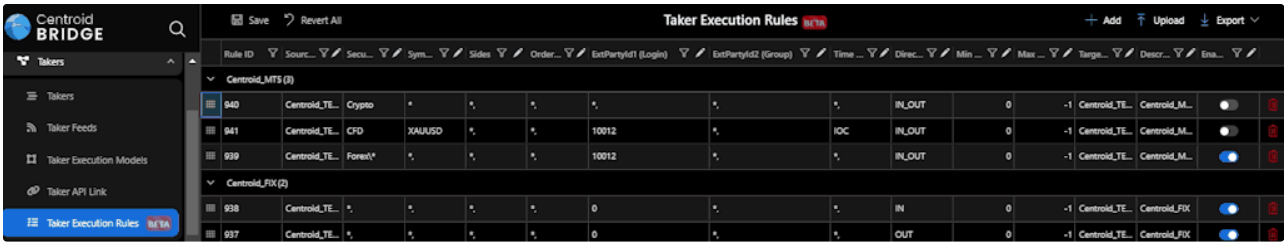
All changes made at the settings level take effect immediately and do not require restarting the bridge.



Adjusting Taker Execution Rules Order

How to adjust the order of Taker Execution Rules

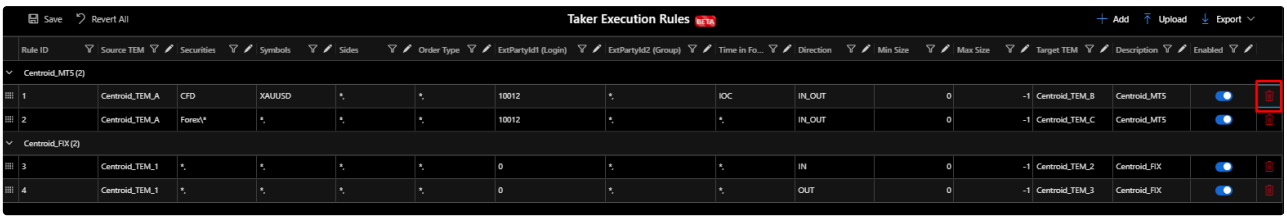
Execution rules are read from top to bottom. Brokers can adjust the order using the drag-and-drop feature, allowing them to control which rules take priority.

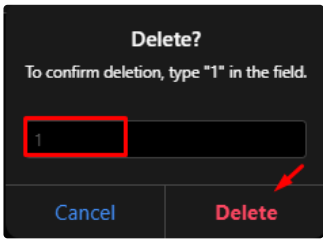


Delete Taker Execution Rules

To delete a Taker Execution Rules

1. Click the **“Delete”** icon next to the desired Taker Execution Rules
2. Enter the ID in the pop-up window & Click on **“Delete”** button to confirm the deletion

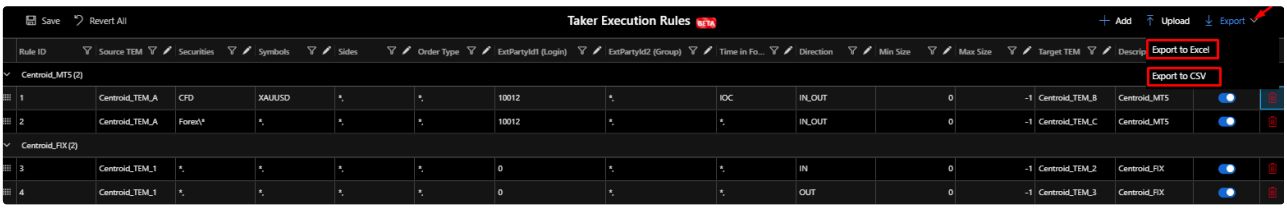




Exporting Taker Execution Rules

To Export Taker Execution Rules

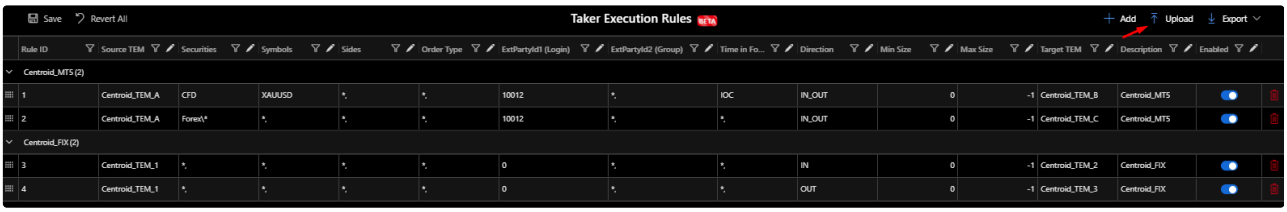
1. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



Uploading Taker Execution Rules

To Upload Takers Execution Rules

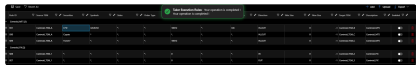
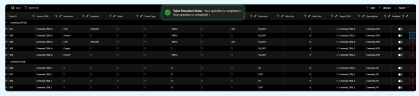
1. Click on **“Upload”**



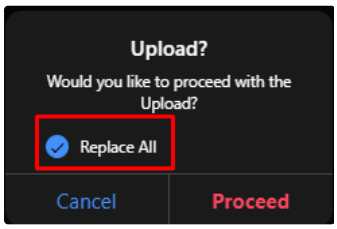
2. Click on **“Drop File”** and select the File or drag the file to this section to upload.

3. To successfully upload the Taker Execution Rules, click on **"Upload"**

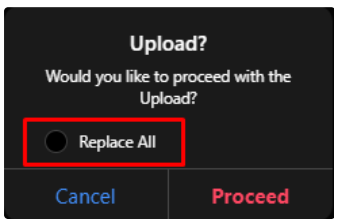
When uploading Taker Execution Rules, the **"Replace All"** option allows you to control how new rules are applied:

Replace All	Description	Result
Replace All - Checked	If checked, this will overwrite all existing rules with the new rules in the uploaded file. The final set of rules will only include those present in the uploaded file.	
Replace All - Unchecked	If unchecked, the system will append new rules from the file to the existing ones. This may result in duplicate entries if the file contains rules already present in the system.	

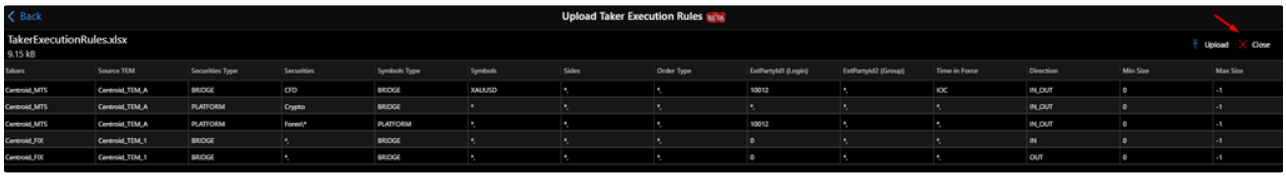
- **Replace All - Checked**



- **Replace All - Unchecked**



4. You also have the option to discard the bulk upload by clicking on the **"Close"** Button



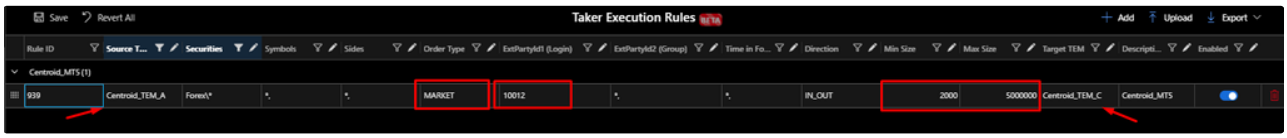
Sample Rules and Trade Processing with Execution Rules

Scenario 1: For MT5 Takers

As shown in the snapshot, the rule specifies that if a trade comes through **Tag 1 "Centroid_TEM_A"**, from **MT5 Login ID 10012**, and is a **Market Order**, it will be redirected to the **Centroid_TEM_C** account.

Additionally, there's a filter for **Min Size** and **Max Size**:

- **Min Size**: 2000
- **Max Size**: 5,000,000
  (Both in volumes)

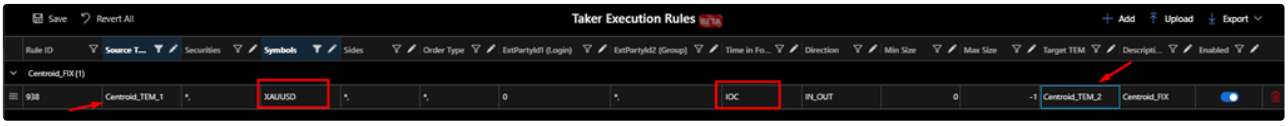


If the trade volume is below 2000, it **won't execute** with **Centroid_TEM_C**. Instead, the system will move to the next rule to check its conditions. But if the trade volume falls between 2000 and 5,000,000, it will be executed with Centroid_TEM_C.

Additionally, if no rules match the trade's criteria and filters, the trade will be rejected by Centroid Bridge.

Scenario 2: For FIX Takers

As shown in the snapshot, the rule specifies that if a trade comes through **Tag 1 "Centroid_TEM_1"**, with the symbol **"XAUUSD"** and is an **IOC Order**, it will be redirected to the **Centroid_TEM_2** account.



This rule applies only to XAUUSD trades as IOC orders. If a trade involves a different symbol, the bridge will move to the next rule and check its conditions. **If no rules match the trade's criteria and filters, the trade will be rejected by Centroid Bridge.**

FAQ - Taker Module

FAQ

Taker

Is it possible to add a new Taker Connection from our end?

Kindly note that users can add FIX as the taker connection type on their end. For MT5 and MT4 connections, we recommend contacting our support team via email: support@centroidsol.com or Skype/Slack .

Do we need to provide the Taker IPs to the Centroid Team?

We kindly request the IPs of the newly added takers, Whitelisting these IPs ensures a smooth connection between Taker and the Centroid Bridge.

What is the process for providing connection details to the FIX Taker?

To share connection details with your FIX Taker, you can access the "Export FIX Config" option on the extreme right to download the FIX Details. Kindly note that this feature is exclusively for FIX Takers only.

What does specifying an IP during the creation of the taker entail? Does mentioning the IP mean it is automatically whitelisted for the taker?

Mentioning the IP during taker creation is for reference only and doesn't automatically whitelist it. To whitelist IPs, please share them with Centroid via dedicated group chat or send an email to support@centroidsol.com

Taker Feed

Can multiple takers be assigned within a single Taker Feed?

Indeed, it is possible to assign multiple takers within a single Taker Feed.

Encountering challenges when saving a new taker feed? What could be the reasons for the error?

Consider the following possibilities for the error:

- If you're encountering issues with an existing suffix, ensure you're not attempting to save the same set of suffix taker feed with the same taker.
- If you're uploading a file, we recommend double-checking the Excel format for any potential discrepancies.

Taker Execution Model

How can we ensure that the TEM (whether existing or newly added) is fully configured for B Book, and vice versa?

To confirm whether the TEM is set up as B Book or A Book, just check the B Book percentage configured on the TEM level:

- 0 indicates the TEM is configured as complete A Book.
- 100 indicates the TEM is configured as complete B Book.

What does 'Min Volume' signify, and how can it be reconfigured?

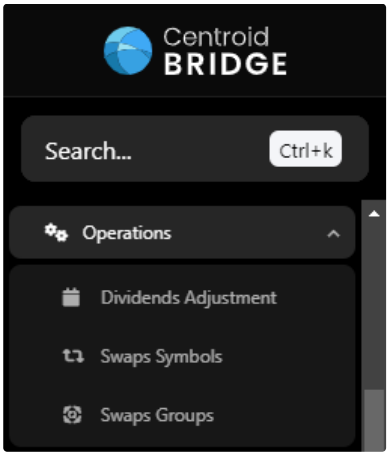
Min volume represents the minimum volume accepted at the bridge level; anything below this threshold will be declined.
To reconfigure, simply adjust the volume, considering the contract size and your desired minimum volume:
Volume = Contract Size × Lot Size.

Why was a particular order booked as B Book, even when the TEM is configured as A Book?

If an order is booked as B Book despite the TEM being configured as A Book, you might review your TEM settings. Specifically, check AMin and AStep configurations. If these criteria's aren't met, the order may be booked as B Book, disregarding the TEM B Book% configuration.

Operations

The Operations Module allows to create and configure Dividends Adjustments, Swaps Symbols, and Swaps Groups groups. Upon clicking the “Operations” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.



Dividends Adjustments

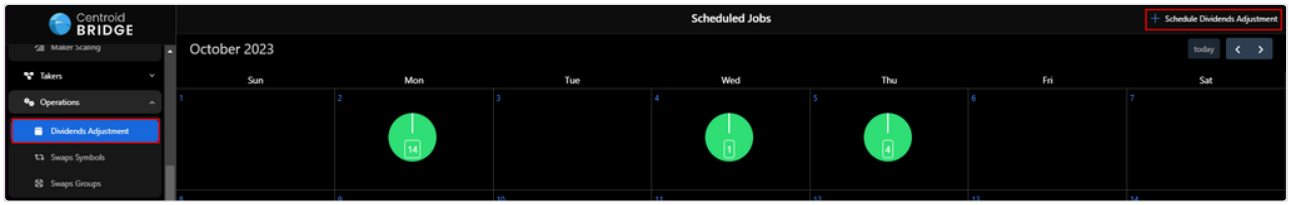
Overview

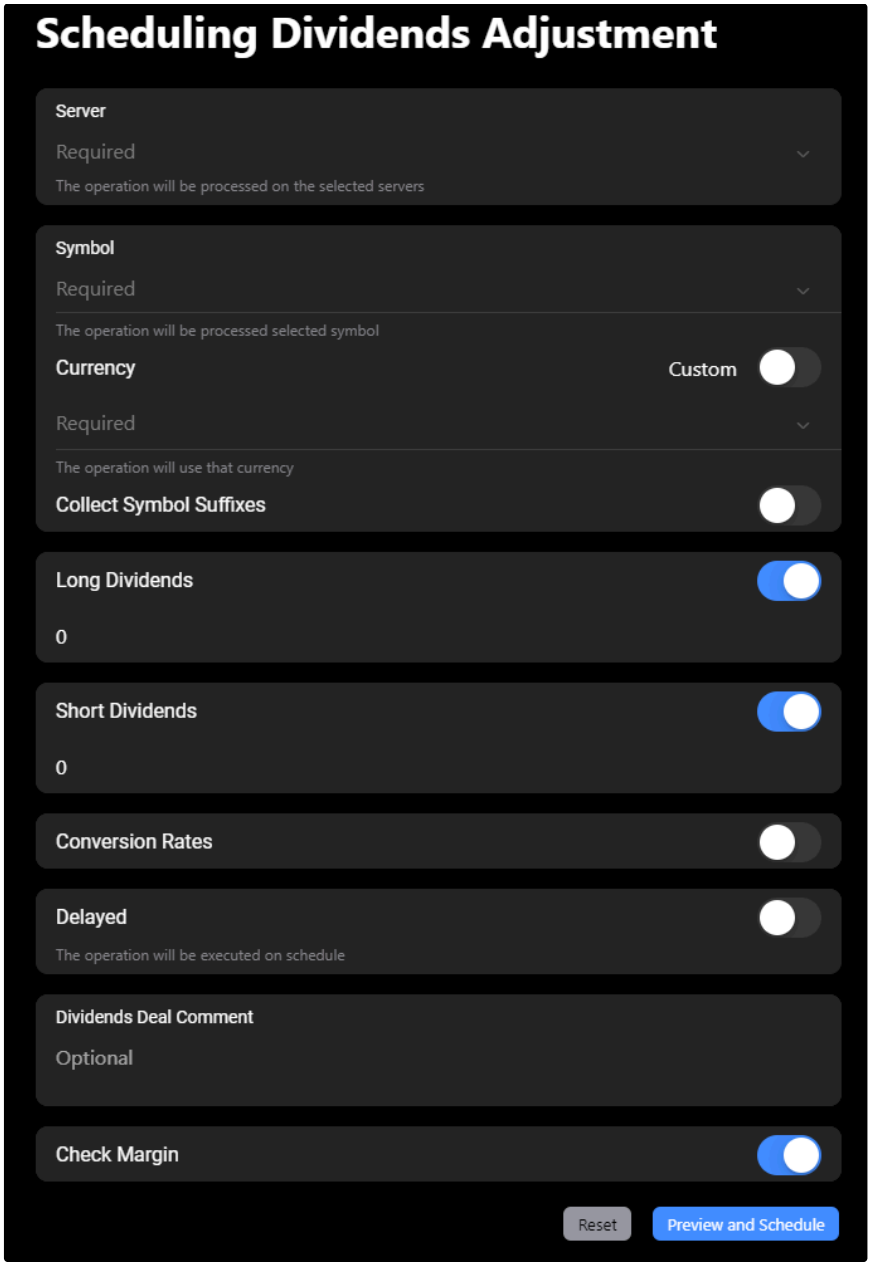
The Dividend Adjustment under Operation allows a broker to apply dividends to any MT4/5 login based on their open positions. It offers an option to fully apply automated dividends according to broker's requirements. With the dividend component, we can select the corresponding MT4/5 server. The required symbol can be selected together with the base currency which will be used for the conversion rate. Long/Short dividend value will be used to calculate the final dividend amount and it can be set to apply immediately or scheduled to be performed at a later time.

Create a Dividend Operation

To create a new dividend task

1. Click **“Schedule Dividends Adjustment”** to create a new dividend operation.
2. Fill out the wizard with all the required fields, you may refer to the field descriptions hereafter.
3. Click **“Preview and Schedule”** to submit the changes.





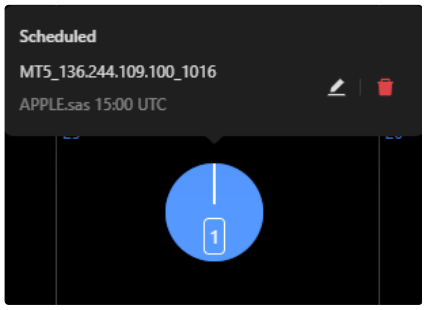
Field	Description
Server	The specific MT4/5 server you can choose to apply the dividends adjustment
Symbol	The symbol for which the dividends need to be applied
Currency	The currency will be treated as the base currency for calculating the conversion rate. Custom button can be ticked to manually type any desired currency for conversion rate
Collect Symbol Suffixes	Dividend will be applied to all the symbol suffixes of the selected symbol
Long Dividends	The amount to be (added/deducted) to an account for a long position
Short Dividends	The amount to be (added/deducted) from an account for a short position
Conversion Rates	The current conversion rate will be used for converting the dividend amount from the selected currency to the account's group currency. It will apply the conversion rate only if it is enabled
Delayed	Allows the dividend task to be scheduled at any date/time

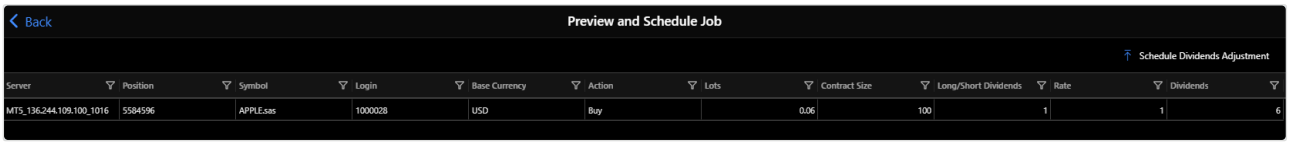
Applied Date UTC	The UTC date and time when the dividends adjustment will be applied
Dividends Deal Comment	A comment related to the dividend adjustment balance operation. It will be displayed in the MT4/5
Check Margin	if enabled, it will check the account margin before applying dividend. Set to disable, the dividend task will not consider account margin

Scheduled/Completed Dividend

Scheduled Dividend

1. Scheduled dividend will be shown as blue circle.
2. Clicking on the "**pen**" icon allows us to edit the dividend fields.
3. Preview of the dividend will be shown after we click "**Preview and Schedule**".

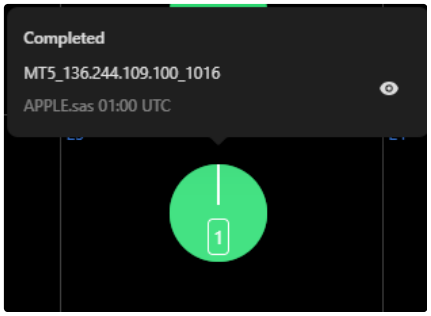


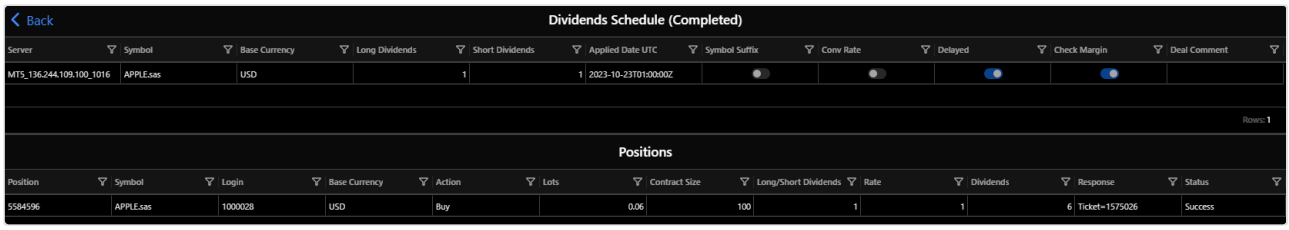


Server	Position	Symbol	Login	Base Currency	Action	Lots	Contract Size	Long/Short Dividends	Rate	Dividends
MT5_136.244.109.100_1016	5584596	APPLE.sas	1000028	USD	Buy	0.06	100	1	1	6

Completed Dividend:

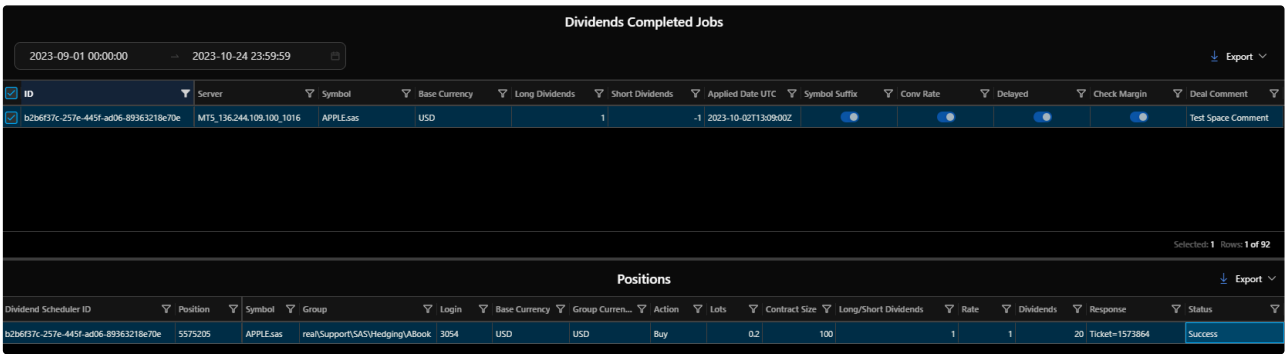
1. Completed dividend will be shown as green circle.
2. Clicking on the "**eye**" icon will display the details of the operation.
3. All the completed tasks can be displayed based on date/time on Monitoring >> "**Dividend Completed Jobs"** Component.





Server	Symbol	Base Currency	Long Dividends	Short Dividends	Applied Date UTC	Symbol Suffix	Conv Rate	Delayed	Check Margin	Deal Comment
MT5_136.244.109.100_1016	APPLE.sas	USD	1	1	2023-10-23T01:00:00Z					

Position	Symbol	Login	Base Currency	Action	Lots	Contract Size	Long/Short Dividends	Rate	Dividends	Response	Status
5584596	APPLE.sas	1000028	USD	Buy	0.06	100	1	1	6	Ticket=1575026	Success



Dividend Calculation Formula

→ **For Long Position:**

Amount=Position Volume × Contract Size × Conversion Rate × Long Dividends Value

→ **For Short Position:**

Amount=Position Volume × Contract Size × Conversion Rate × Short Dividends Value

Important Notes

1. **Position Volume Unit:** The Position Volume is in lots.
2. **Conversion Rate:** The conversion rate goes from the chosen base currency to the MT4/MT5 login currency.
3. **Conversion Rate of 0:** The conversion rate will be zero if the base currency to login currency is not priced in MT4/MT5.
   Example:
   Base currency (CCY) = GBP
   MT4/MT5 login currency (CCY) = USD
   To obtain a conversion rate for a dividend, GBPUSD must be priced on MT4/MT5.

Swaps Symbols

Overview

The MT4/MT5 Swap Symbol Update functionality, can be found within the Bridge Engine UI, under the Operations section. The Swaps Update functionality is part of a set of operational tools for trading platforms (i.e. MT4, MT5, etc.) that is intended to optimize and minimize the time needed to manage specific configurations on the trading platforms that need to be performed periodically. Therefore, by having an optimized way and single system where to manage such tasks (for one or multiple platforms), it can save a lot of time and avoid overhead. At the Swaps Symbols screen, the swap values of all the symbols within the trading platform can be updated. This can be done either via the UI, by setting the new values for the Short and Long swaps, respectively; alternatively, the Export and Upload can be used to bulk update the swap settings across a large number of symbols at the same time.

Swap Symbol Change

To change the swap for symbol

1. Select the required MT4/5 server.
2. Enter the required "**New Swap Long/New Swap Short**" on the UI or via the upload function.
3. Click "**Save**" to deploy the changes.

Field	Description
Server	The specific MT4/5 server to apply the swap operation
Symbol	The symbol for which the swap will be changed
Description	The description of symbol as per MT4/5 server
Swap Long	Current Swap Long value of that symbol
New Swap Long	The new swap long value which will replace the current swap value
Swap Short	Current Swap Short value of that symbol
New Swap Short	The new swap short value which will replace the current swap value

Important Notes

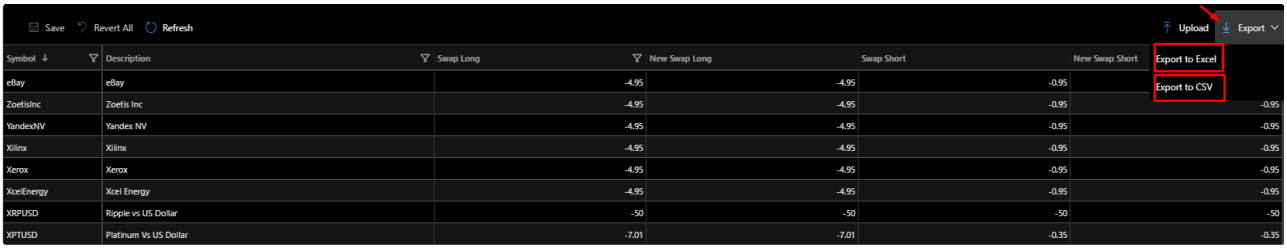
- Swap changes will be applied immediately
- New value is highlighted in red if it is more or less than 10% of the current swap value
- Swap changes can be performed using UI Wizard or upload an excel/csv file

Symbol	Description	Swap Long	New Swap Long	Swap Short	New Swap Short
EURUSD	Euro vs US Dollar (1 lot = EUR 100,000) 18	52	55	3	4
GBPUSD	British Pound vs US Dollar (1 lot = GBP 100,000)	-5.32	-5.32	14	14
USDJPY	US Dollar vs Japanese Yen (1 lot = USD 100,000)	11	11	1	1
USDCAD	US Dollar vs Canadian Dollar (1 lot = USD 100,000)	-2.83	5	-1.93	-1.95
USDCHF	US Dollar vs Swiss Franc (1 lot = USD 100,000)	0	0	2	2
AUDUSD	Australian Dollar vs US Dollar (1 lot = AUD 100,000)	-2.21	-2.21	-0.72	-0.72
NZDUSD	New Zealand Dollar vs US Dollar (1 lot = NZD 100,000)	-2.07	-2.07	-0.28	-0.28
EURJPY	Euro vs Japanese Yen (1 lot = EUR 100,000)	-2.77	-2.77	-1.18	-1.18
EURCHF	Euro vs Swiss Franc (1 lot = EUR 100,000)	-1.05	-1.05	-1.55	-1.55

Exporting the Swap Symbols

To export the Swap Symbols

Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"

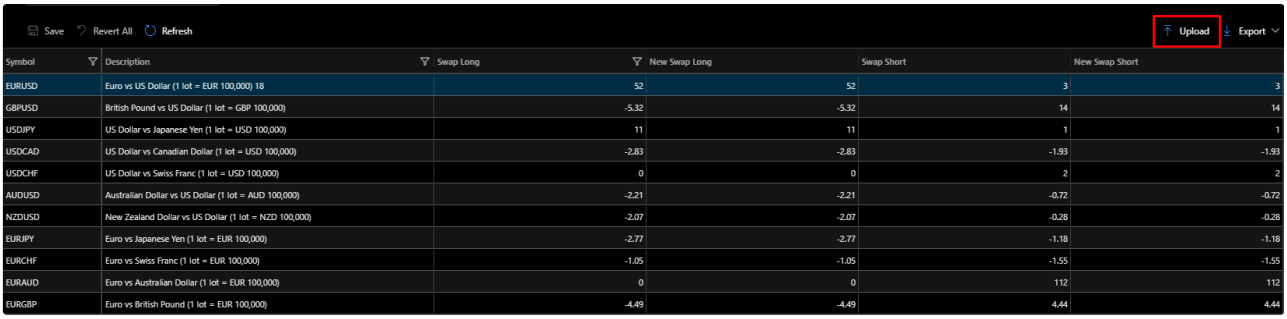


Symbol	Description	Swap Long	New Swap Long	Swap Short	New Swap Short
eBay	eBay	-4.95	-4.95	-0.95	
ZoetisInc	Zoetis Inc	-4.95	-4.95	-0.95	-0.95
YandexNV	Yandex NV	-4.95	-4.95	-0.95	-0.95
Xilinx	Xilinx	-4.95	-4.95	-0.95	-0.95
Xerox	Xerox	-4.95	-4.95	-0.95	-0.95
XcelEnergy	Xcel Energy	-4.95	-4.95	-0.95	-0.95
XRPUSD	Ripple vs US Dollar	-50	-50	-50	-50
XPTUSD	Platinum Vs US Dollar	-7.01	-7.01	-0.35	-0.35

Uploading the Swap Symbols

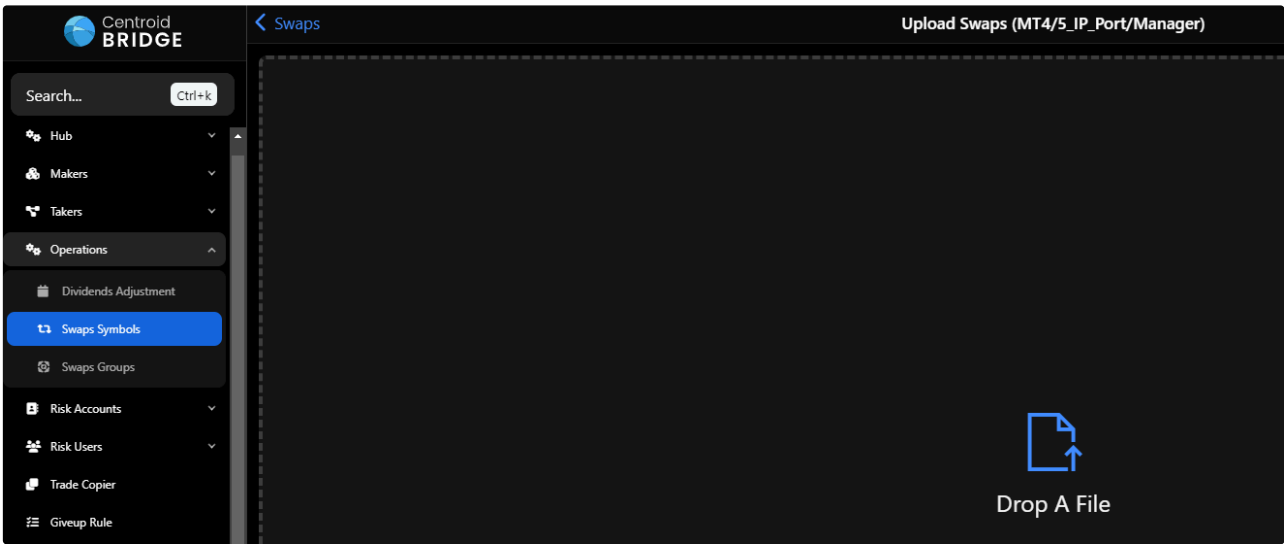
To upload the Swap Symbols Settings

1. Click on the **"Upload"**

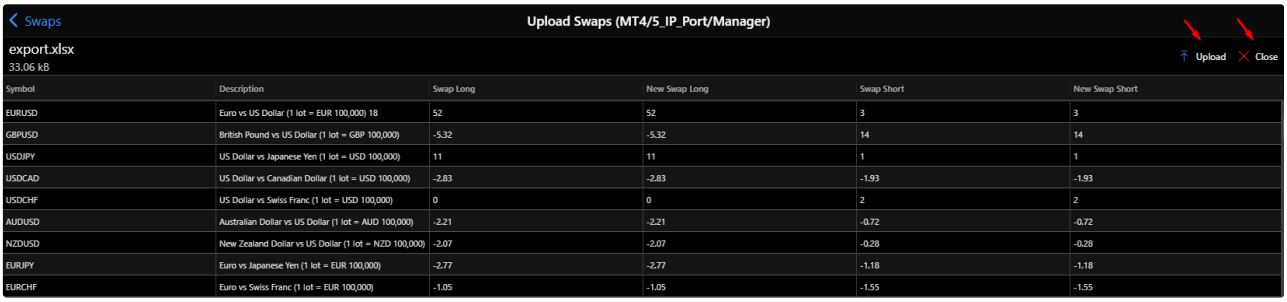


Symbol	Description	Swap Long	New Swap Long	Swap Short	New Swap Short
EURUSD	Euro vs US Dollar (1 lot = EUR 100,000) 18	52	52	3	3
GBPUSD	British Pound vs US Dollar (1 lot = GBP 100,000)	-5.32	-5.32	14	14
USDJPY	US Dollar vs Japanese Yen (1 lot = USD 100,000)	11	11	1	1
USDCAD	US Dollar vs Canadian Dollar (1 lot = USD 100,000)	-2.83	-2.83	-1.93	-1.93
USDCHF	US Dollar vs Swiss Franc (1 lot = USD 100,000)	0	0	2	2
AUDUSD	Australian Dollar vs US Dollar (1 lot = AUD 100,000)	-2.21	-2.21	-0.72	-0.72
NZDUSD	New Zealand Dollar vs US Dollar (1 lot = NZD 100,000)	-2.07	-2.07	-0.28	-0.28
EURJPY	Euro vs Japanese Yen (1 lot = EUR 100,000)	-2.77	-2.77	-1.18	-1.18
EURCHF	Euro vs Swiss Franc (1 lot = EUR 100,000)	-1.05	-1.05	-1.55	-1.55
EURAUD	Euro vs Australian Dollar (1 lot = EUR 100,000)	0	0	112	112
EURGBP	Euro vs British Pound (1 lot = EUR 100,000)	-4.49	-4.49	4.44	4.44

2. Drop the file you want to upload. Alternatively, you can click on "**Drop a File"**, select the file and click **"Open"**



3. Click **"Upload"** to upload the file or click **"Close"** to cancel.



Symbol	Description	Swap Long	New Swap Long	Swap Short	New Swap Short
EURUSD	Euro vs US Dollar (1 lot = EUR 100,000) 18	52	52	3	3
GBPUSD	British Pound vs US Dollar (1 lot = GBP 100,000)	-5.32	-5.32	14	14
USDJPY	US Dollar vs Japanese Yen (1 lot = USD 100,000)	11	11	1	1
USDCAD	US Dollar vs Canadian Dollar (1 lot = USD 100,000)	-2.83	-2.83	-1.93	-1.93
USDCHF	US Dollar vs Swiss Franc (1 lot = USD 100,000)	0	0	2	2
AUDUSD	Australian Dollar vs US Dollar (1 lot = AUD 100,000)	-2.21	-2.21	-0.72	-0.72
NZDUSD	New Zealand Dollar vs US Dollar (1 lot = NZD 100,000)	-2.07	-2.07	-0.28	-0.28
EURJPY	Euro vs Japanese Yen (1 lot = EUR 100,000)	-2.77	-2.77	-1.18	-1.18
EURCHF	Euro vs Swiss Franc (1 lot = EUR 100,000)	-1.05	-1.05	-1.55	-1.55

Swaps Groups

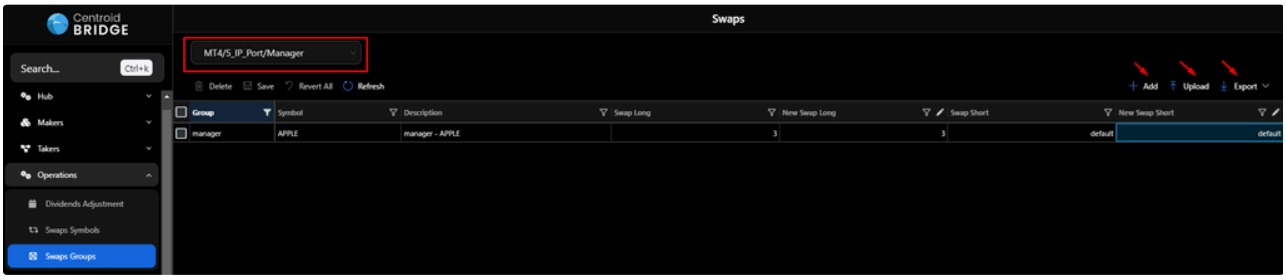
Overview

The MT4/MT5 Swaps Group Update functionality, can be found within the Bridge Engine UI, under the Operations section. The Swaps Update functionality is part of a set of operational tools for trading platforms (i.e. MT4, MT5, etc.) that is intended to optimize and minimize the time needed to manage specific configurations on the trading platforms that need to be performed periodically. Therefore, by having an optimized way and single system where to manage such tasks (for one or multiple platforms), it can save a lot of time and avoid overhead. At the Swaps Group screen, the swap values of all or specific symbols, for any specific group within the trading platform, can be updated. This can be done either via the UI, by adding new config lines for specific group and symbol, or editing existing settings; alternatively, the Export and Upload can be used to bulk add or update the swap settings across a large number of groups and symbols at the same time.

Swap Group Change

To change the swap for groups:

1. Select the required MT4/5 server.
2. Enter the "**New Swap Long/New Swap Short**" value on the UI or via upload function.
3. Click "**Save**" to deploy the changes.

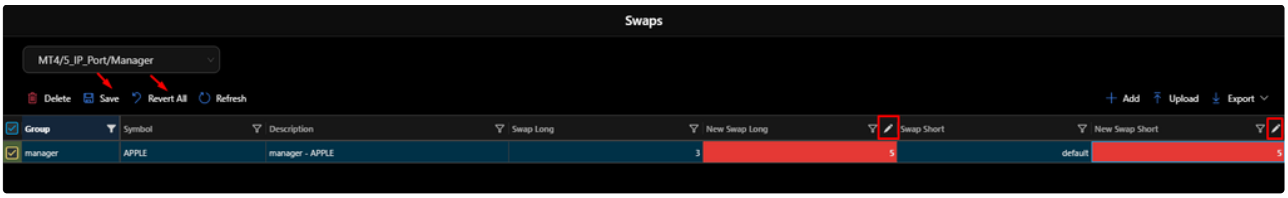


Field	Description
Server	The specific MT4/5 server to apply the swap operation
Group	The group on MT4/5 server
Symbol	The symbol for which the swap will be changed
Description	Group name - Symbol
Swap Long	Current Swap Long value of that group symbol
New Swap Long	The new swap long value which will replace the current group symbol swap value
Swap Short	Current Swap Short value of that group symbol
New Swap Short	The new swap short value which will replace the current group symbol swap value

Important Notes

- Swap changes will be applied immediately
- New value is highlighted in red if it is more or less than 10% of the current swap value.
- Swap changes from default to any value or vice versa will always be highlighted red.

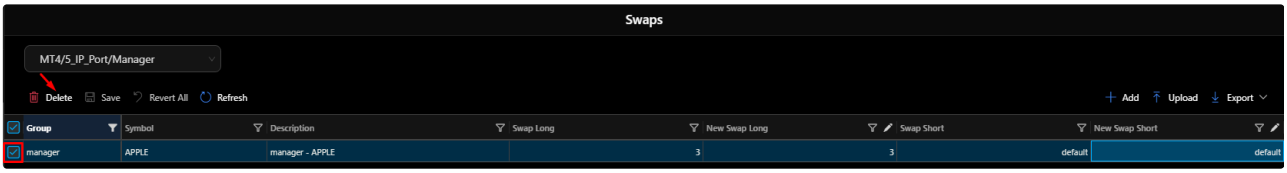
- Swap changes can be performed using UI Wizard or upload an excel/csv file.

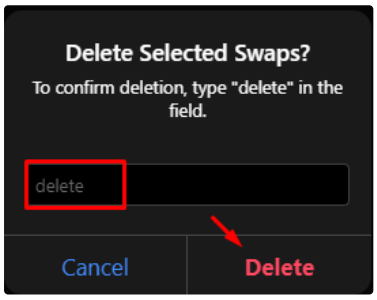


Deleting a Swap Group

To delete a Swap Group

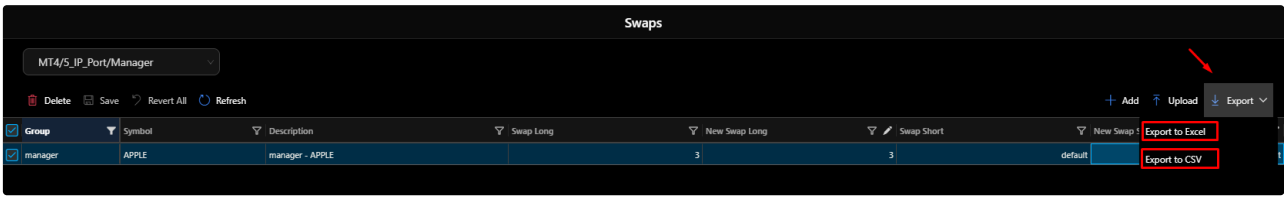
1. Click the **"Delete"** icon next to the desired Swap Group.
2. Confirm the **"Delete"** button in the pop-up window to confirm the deletion.





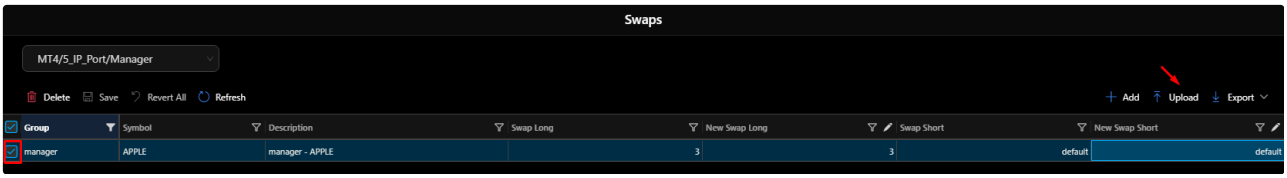
Exporting a Swap Group

Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



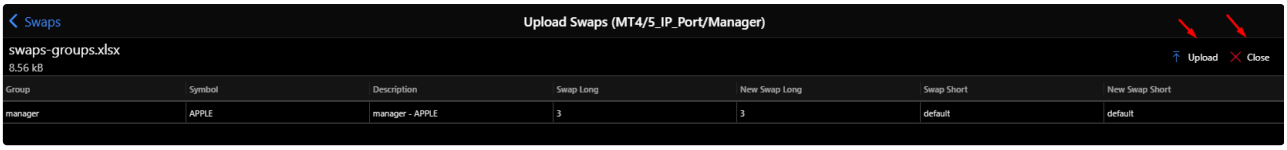
Uploading a Swap Group

1. Click on **"Upload"**



2. Drop the file you want to upload. Alternatively, you can click on "**Drop a File"**, select the file and click **"Open"**

3. Click **"Upload"** to upload the file or click **"Close"** to cancel.



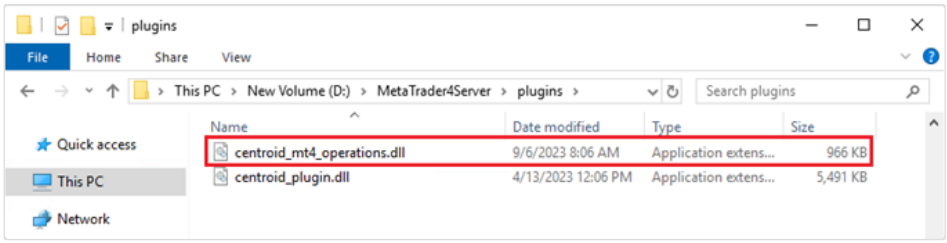
Swap/Dividend Requirement

MT4 Required Configurations & Actions

- For the installation of the MT4 Centroid plugin, follow these steps:
  a. Open port 11000 on the MT4 server or allow the bridge IP on port 11000.
  b. Send the following details to support@centroidsol.com:
    - Confirmation that the plugin is successfully installed.
    - Target Server IP: 11000

Installation

1. Stop the MT4 service via Windows Services
2. Add the **centroid_mt4_operations.dll** file to the plugin folder (**download here**).



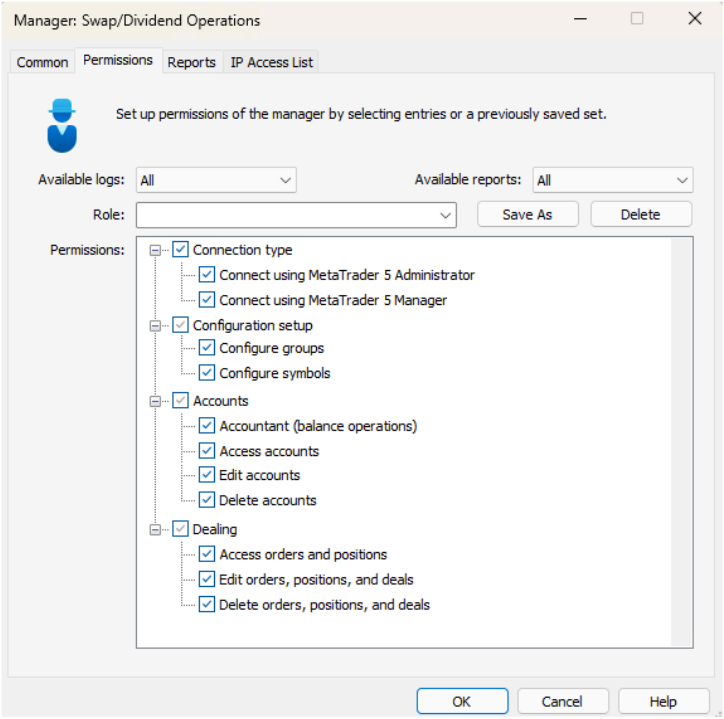
3. Start the MT4 service via Windows Services.

Note: Config file will be automatically created during the installation with a default port of 11000.

MT5 Required Configurations & Actions

Provisioning MT5 Manager

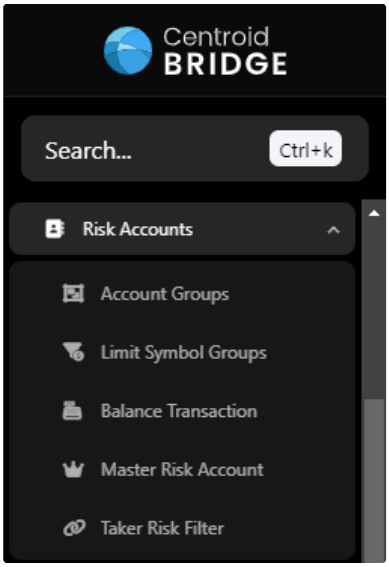
1. Create a dedicated MT5 Manager for Swap Uploader
2. Manager Group Permission must be configured
3. Manager Permission must be configured with the below rights:



4. Send the following details to support@centroidsol.com
   - Desired Swap Uploader name (e.g., “Main MT5 Server”)
   - Manager Login
   - Manager Master Password
   - Public Access Server

Risk Accounts

The Risk Accounts Module allows to create and configure Accounts Groups, Limit Symbol Groups, Balance Transaction, and Taker Risk Filter. Upon clicking the “Risk Accounts” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.

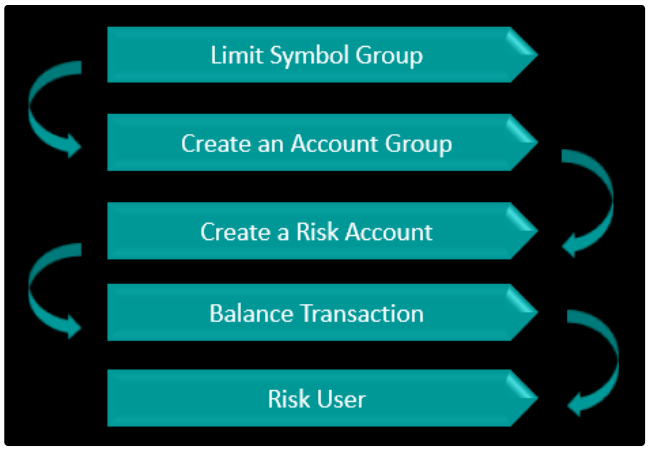


Limit Symbol Groups

Overview

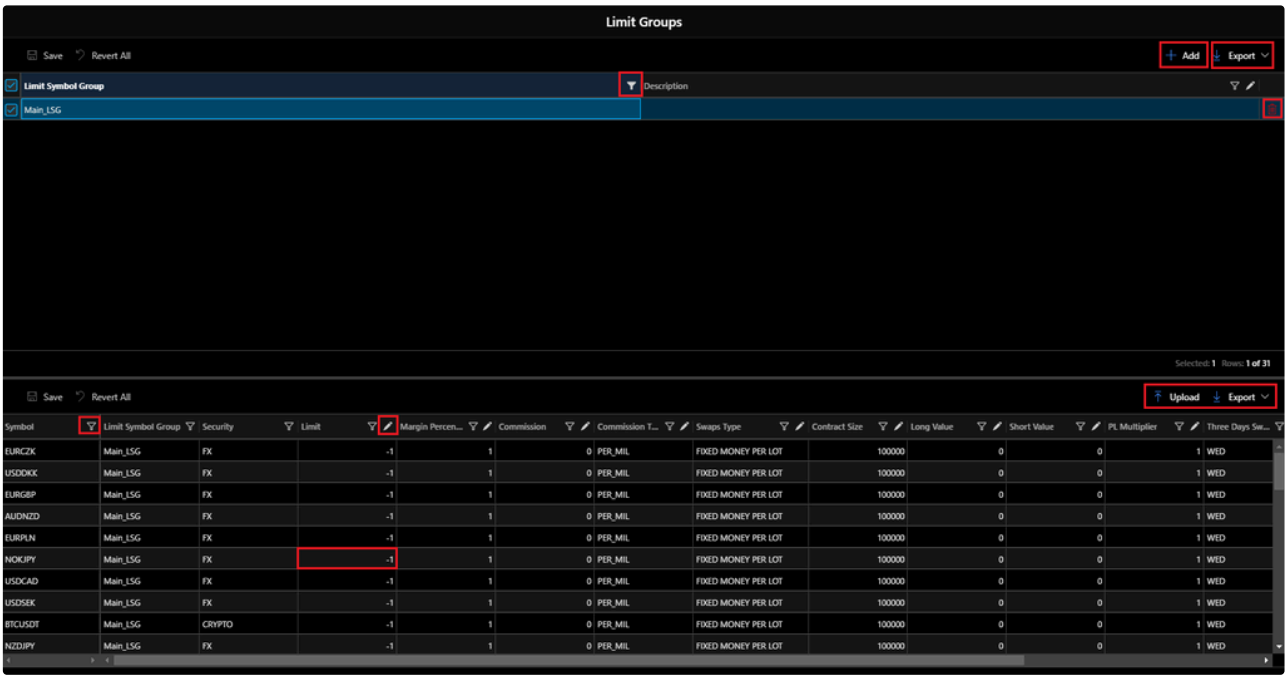
In straightforward terms, the Limit Symbol Group allows you to set different parameters for various Risk Accounts, such as Margin, Exposure Limit, Commission, Swaps, and more.

Here's how you assign the Limit Symbol Group to a Risk Account:



In this component, you can view all the Limit Symbol Groups defined in the portal in addition to doing the following:

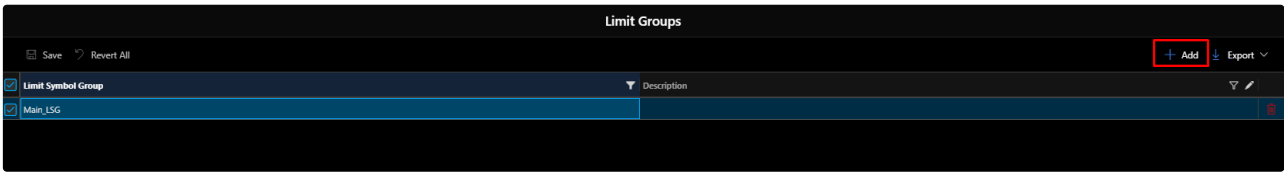
- **Create a Limit Symbol Group:** Establish a new Limit Symbol Group.
- **Filter and Look Up a Limit Symbol Group:** Search for and identify a particular Limit Symbol Group.
- **Delete a Limit Symbol Group:** Remove a specific Limit Symbol Group.
- **Export Limit Symbol Groups:** Save the list of Limit Symbol Groups to an Excel file or CSV file.
- **Filter a Symbol within a Limit Symbol Group:** Narrow down options for Symbols within a Limit Symbol Group to simplify configuration.
- **Configure Bulk Symbol Settings:** Adjust settings for multiple Symbols by clicking the edit button next to the desired column.
- **Configure a Limit Symbol Group:** Fine-tune settings down to the level of each individual Symbol within a Limit Symbol Group.
- **Export Symbol Configuration of a Limit Symbol Group:** Save the configured Symbol settings of a specific Limit Symbol Group to an Excel file or CSV file.
- **Upload New Configuration:** Implement new configurations for a specific Limit Symbol Group by uploading the changes.



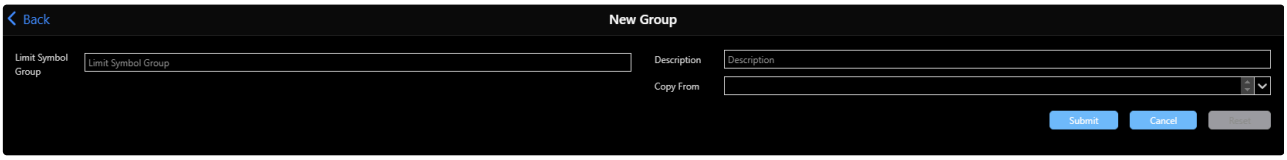
Create a Limit Symbol Group

To create a Limit Symbol Group:

1. Click on **"Add"** to create a new Limit Symbol Group.



2. Fill out the Wizard as explained below
3. Click **"Submit"** to submit the changes



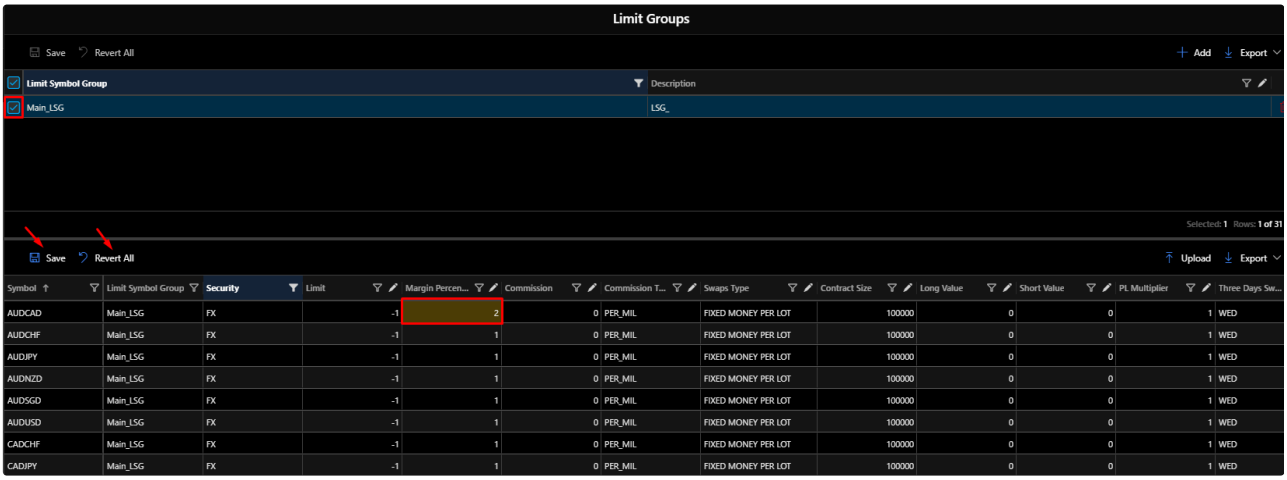
Field	Possible Values	Description
Limit Symbol Group	Test_LSG, Plain_LSG, TakerName_LSG	A unique name of the Limit Symbol Group
Description		A short description for reference purposes
Copy From		Allows to copy the configuration settings of an existing Limit Symbol Group

Once the new Limit Symbol Group has been created, you can assign it to the desired Account Group which in turn would deploy across all Risk Account underneath.

Configure Limit Symbol Group

To configure a Limit Symbol Group on a per Symbol basis

1. Select the Limit Symbol Group you want to configure by ticking the box before the Limit Symbol Group Name.
2. Locate and make the changes to the desired Symbol(s). The changes are highlighted in orange
3. Click the **"Save"** button on top to deploy the changes



Field	Editable	Possible Values	Description
Symbol	No	EURUSD	The Symbol to be configured
Limit Symbol Group	No	Test_LSG ABC_LSG	The Limit Symbol Group being configured
Security	No	*FX, CFD, Equity*	The Security into which the underlying Symbol is grouped
Limit	Yes	10,000,000	Exposure Limit in notional value at which point no more Orders that would increase the Symbol exposure above that limit would be permitted. ***[Note:** This will only work with Risk Account type **NOP** and **Risk]***
Margin Percentage	Yes	0.5,1,2	The Margin % to be blocked when the client is opening a new position. The resulting value will be added to the overall margin blocked of the Risk Account. ***Example:*** Symbol: EURUSD Margin %: 0.5 Open Order: 100000 Price: 1.11550 The Margin Blocked will be calculated as = Open Order Value * Margin % * Price = 100000 * 0.5% * 1.11550 = **USD 557.75 [Margin will be blocked]** --- Margin Percentage is also related to Leverage and the formula is 1/Leverage * 100. For example, if the symbol has a leverage of 5 then the Margin Percentage will be 20 (1 / 5 * 100)

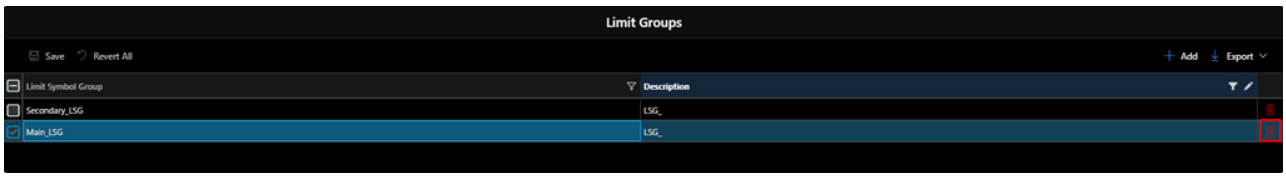
Commission	Yes	1.5, 10, 15	The commission column allows you to input the amount you wish to charge clients for opening or closing positions in a trading platform.
Commission Type	Yes	Fixed, Fixed Per Lot, Per Mil	We have three type of Commission available for Risk Accounts, and they are as follows • **Fixed** This will be calculated as Trade Entry i.e. One trade entry the commission will applied as whole **Calculation:** *Trade Entry * Commission = Commission Value* This value will be deducted as soon as the trade is placed (in/out) • **Fixed Per Lot** **Calculation:** *Volume / Contract Size * Commission = Commission Value* This value will be deducted as soon as the trade is placed (in/out) • **Per Mil** **Calculation:** *Trade Volume / Per Million * Commission * Price = Commission Value.* This value will be deducted as soon as the trade is placed (in/out)
Swaps Type	Yes	Fixed Money Per Lot, Point, Price Percentage	Swap calculation refers to the process of determining the interest or overnight financing charges associated with holding a trading position overnight. It is commonly applied in the context of forex trading. The swap amount is calculated as follows: • **Fixed Money per Lot:** This method involves dividing the trading volume by the contract size and then multiplying by the swap value (in the Quote Currency) for short or long positions. For instance, if the swap long value for EURUSD is -7 and the contract size is 100,000, the overnight swap for a volume of 200,000 long EURUSD would be calculated as (200,000/100,000) x -7 = USD -14. • **Point:** Similar to pip calculation, a point value in the Quote Currency considers the number of decimals in the Symbol and Contract Size. The swap point is calculated as (swap value) x (net volume) x (1/10^digits) x (conversion quote to deposit currency). For example, if the short value of EURGBP is 5 and the traded volume is 100,000, the swap value would be 5 x 100,000 x 0.00001 x conv GBP to USD = GBP 5. This value is then converted into the Risk Account currency by multiplying 5 x conv GBP to USD. • **Price Percentage:** This method calculates swaps based on a percentage or interest rate of the traded instrument. The formula is given by Price Percentage = (current market price) x (net volume) x (swap value / 100.0) x (1 / 360) x (conversion quote to deposit currency). **Note:** Swap is subtracted from the Balance solely upon the partial or complete closure of a position, contingent on the volume closed. While open positions persist, Swap remains unrealized, akin to floating Profit/Loss (PL), and exclusively influences Equity.
Contract Size	Yes	100,000	The Contract Size of the Symbol. This is mainly used for margin, commission and swap calculations
Long Value	Yes	-2, 0.5, 3	The Swap value to be charged for long (buy) overnight positions. • If negative, the value will be deducted from the Risk Account Balance • If positive, the value will be added to the Risk Account Balance
Short Value	Yes	-2, 0.5, 3	The Swap value to be charged for short (sell) overnight positions. • If negative, the value will be deducted from the Risk Account Balance • If positive, the value will be added to the Risk Account Balance

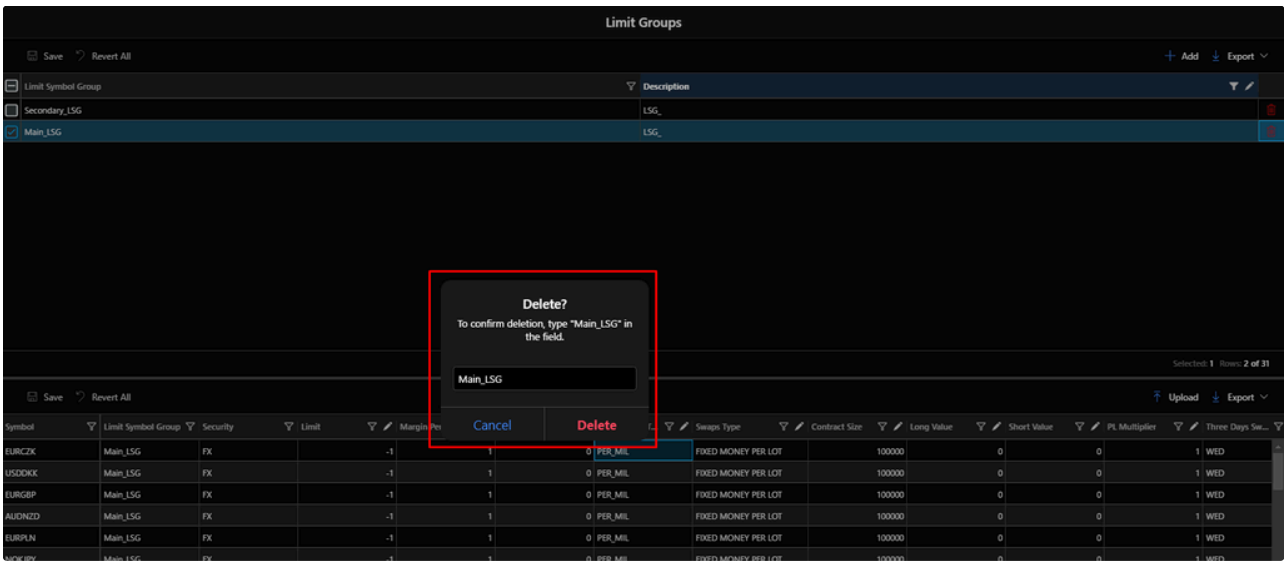
PL Multiplier	Yes	0.5, 2	This parameter is only used to adjust the Profit and Loss (PL) in the event of different PL calculations on the Maker's side in terms of tick size and tick value. For instance, if on our side the tick value for one tick size is equivalent to $1 whereas on the Maker's side it is equivalent to $2, we could simply put in 2 as PL Multiplier to ensure that PLs are matching on both ends
Three Day Swap	Yes	WED, FRI	The Day of the week on which a three day swap value will be charged for positions held overnight on that day. If the value is set to None, then no 3 day swap would be charged, instead the Bridge would charge Swaps on Saturday and Sunday as well for any position held over the weekend
Settlement Time	Yes		The Settlement Time of the contract, if any
Description	No		Symbol description for reference purposes

Delete a Limit Symbol Group

To delete a Limit Symbol Group

1. Click on the **"Delete"** button next to the desired Limit Symbol Group.
2. To confirm the deletion, type the name of the Limit Symbol Group in the field.
2. Click on the **"Delete"** button to confirm.

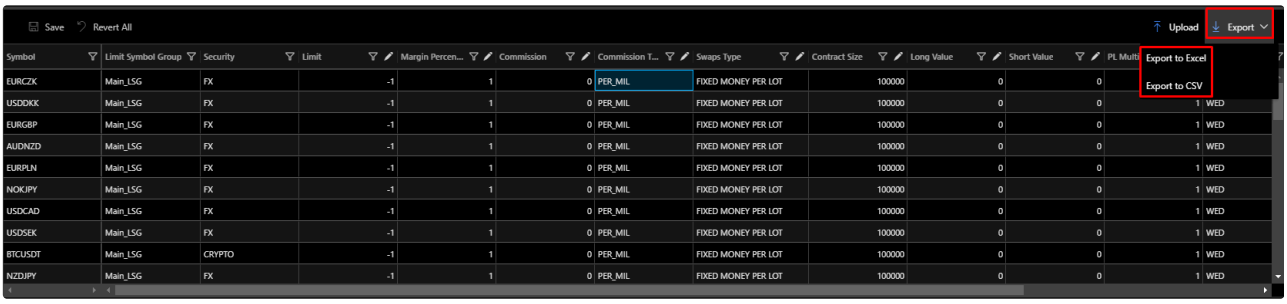




Exporting a Limit Symbol Group

To Export a Limit Symbol Group

1. Select the Limit Symbol Group from the list you wish to export.
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"

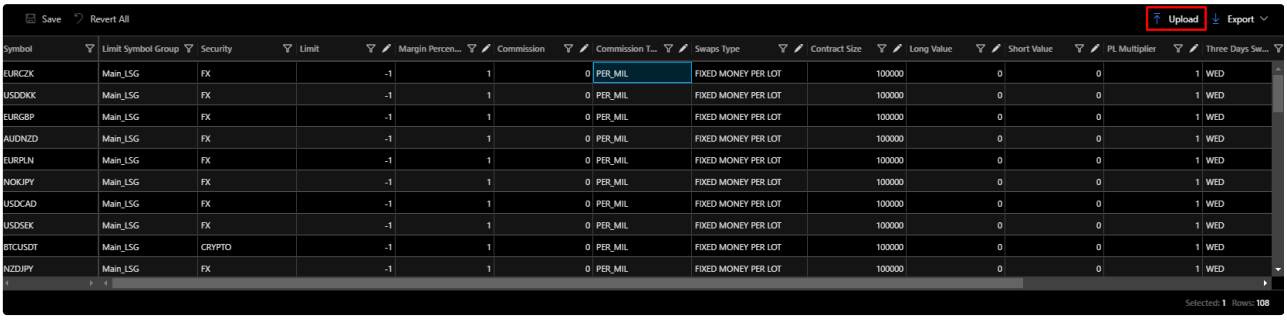


Symbol	Limit Symbol Group	Security	Limit	Margin Percen...	Commission	Commission T...	Swaps Type	Contract Size	Long Value	Short Value	PL Multi	
EURCZK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0		
USDDKK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
EURGBP	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
AUDNZD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
EURPLN	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
NOKJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
USDCAD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
USDSEK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
BTCUSDT	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
NZDJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED

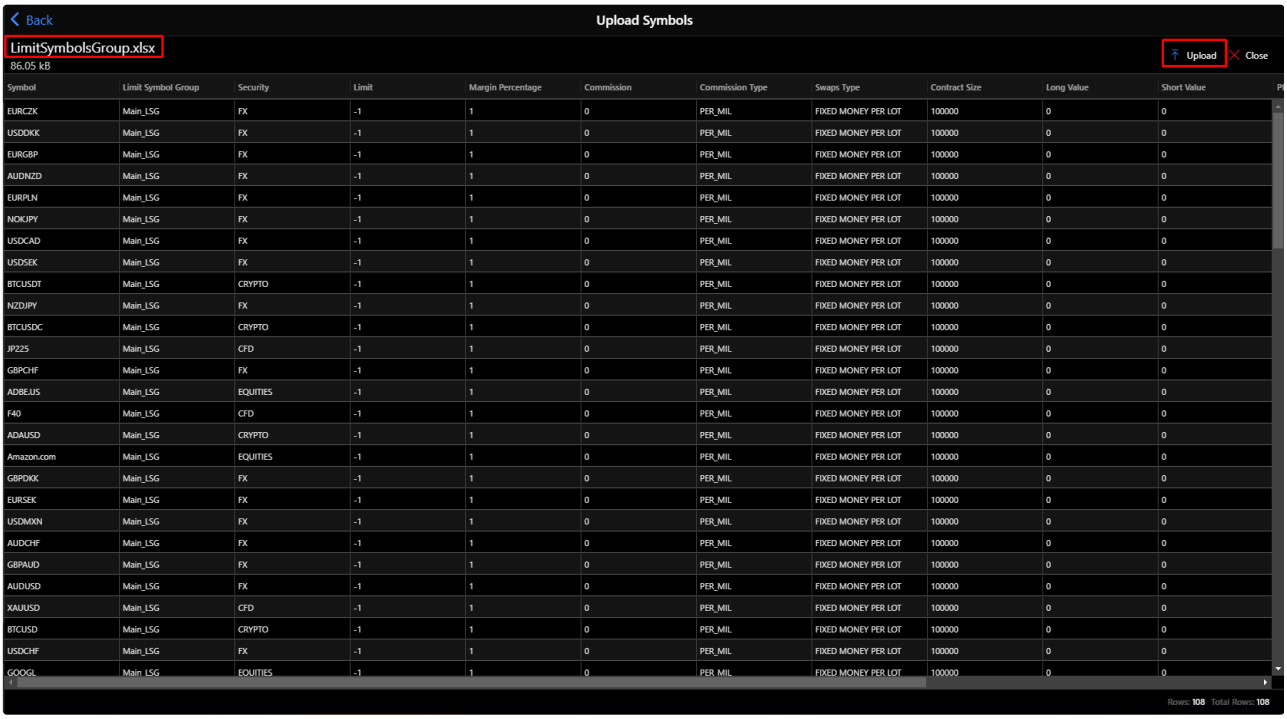
Uploading a Limit Symbol Group

To Upload a Limit Symbol Group

1. Click on **“Upload”**
2. Drop the file you want to upload. Alternatively, you can click on “**Drop a File”**, select the file and click **“Open”**
3. Click **“Upload“** to upload the file or click **“Close”** to cancel.



Symbol	Limit Symbol Group	Security	Limit	Margin Percen...	Commission	Commission T...	Swaps Type	Contract Size	Long Value	Short Value	PL Multiplier	Three Days Sw...
EURCZK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
USDDKK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
EURGBP	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
AUDNZD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
EURPLN	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
NOKJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
USDCAD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
USDSEK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
BTCUSDT	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED
NZDJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0	1	WED

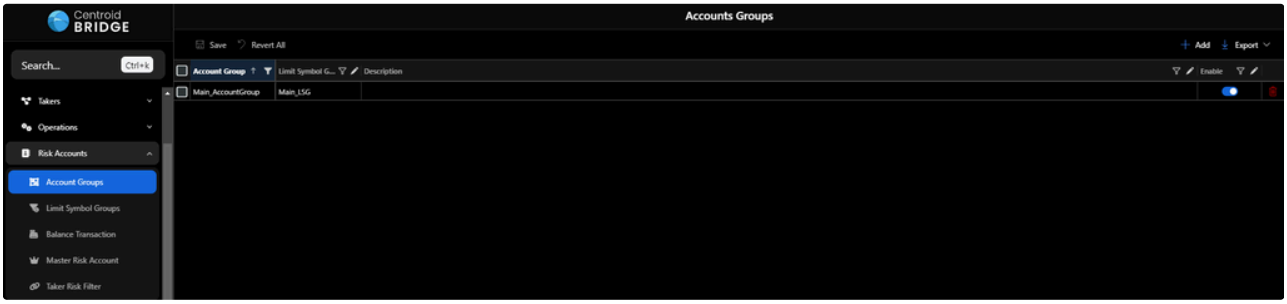


Symbol	Limit Symbol Group	Security	Limit	Margin Percentage	Commission	Commission Type	Swaps Type	Contract Size	Long Value	Short Value
EURCZK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
USDDKK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
EURGBP	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
AUDNZD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
EURPLN	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
NOKJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
USDCAD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
USDSEK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
BTCUSDT	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
NZDJPY	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
BTCUSDC	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
JP225	Main_LSG	CFD	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
GBPCHF	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
ADBE.US	Main_LSG	EQUITIES	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
F40	Main_LSG	CFD	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
ADAUSD	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
Amazon.com	Main_LSG	EQUITIES	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
GBPDKK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
EURSEK	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
USDMXN	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
AUDCHF	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
GBPAUD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
AUDUSD	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
XAUUSD	Main_LSG	CFD	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
BTCUSD	Main_LSG	CRYPTO	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
USDCHF	Main_LSG	FX	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0
GOOGL	Main_LSG	EQUITIES	-1	1	0	PER_MIL	FIXED MONEY PER LOT	100000	0	0

Account Groups

Overview

In this component, you can create Risk Accounts and account Groups (under which Risk Accounts are grouped) and configure Risk Accounts on a Account Group and Risk Account basis.

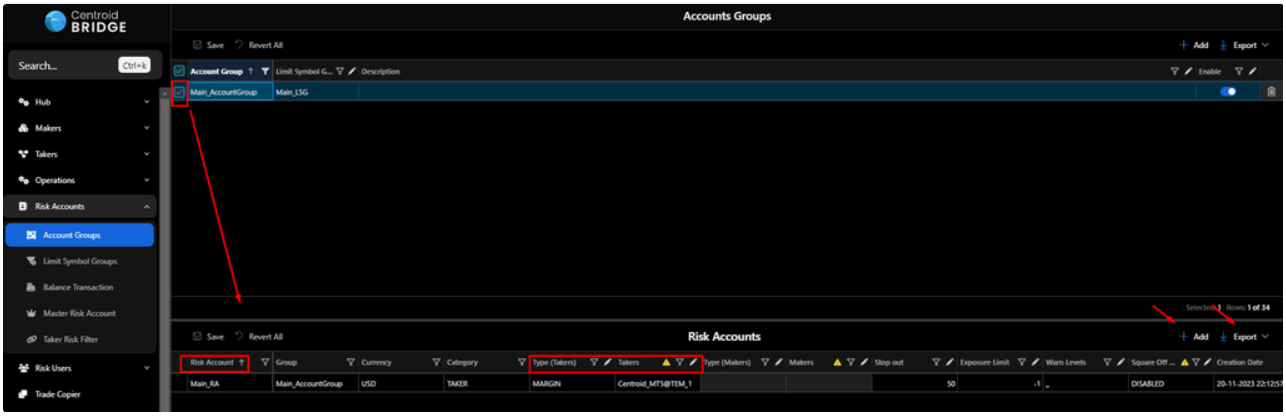


Account Group Level Configuration

Configuration at the Account Group Level is applied across all Risk Accounts underneath. Limit Symbol Group is the parameter that is being configured at the Group Level which is applied to all Risk Accounts underneath. The Limit Symbol Group parameter will be explained in more detail in the respective section hereafter.

You can make the following configurations at the Account Group Level:

- **Filter Account Groups:** Narrow down Account Groups based on desired fields to simplify configuration.
- **Select Account Groups:** Choose one or multiple Account Groups to display the Risk Accounts underneath.
- **Enable/Disable all Account Groups:** Manage the active status of all Account Groups.
- **Configure Limit Symbol Group:** Set configurations across all available Account Groups, impacting all linked Risk Accounts.
- **Enable/Disable a particular Account Group:** Affect all Risk Accounts within the selected Account Group.
- **Configure Limit Symbol Group of an Account Group:** Apply settings across all Risk Accounts within the chosen Account Group.
- **Delete an Account Group:** Remove an existing Account Group.
- **Export Account Groups:** Save the list of Account Groups to an Excel file or CSV file.

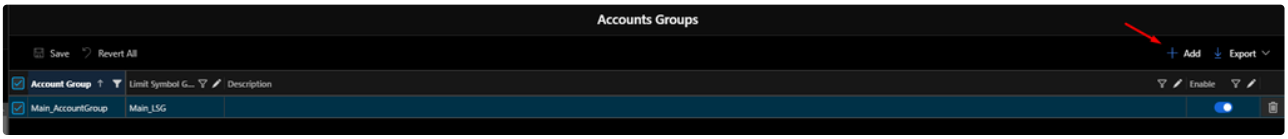


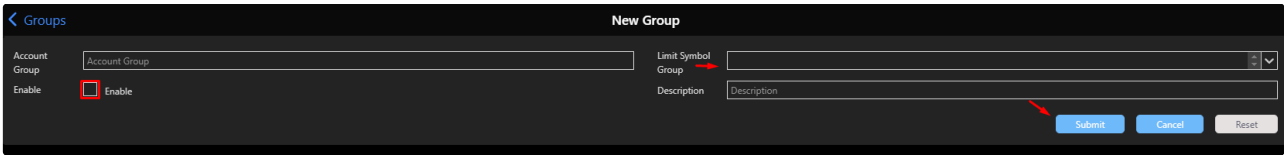
Creating an Account Group

To create an Account Group

1. Click on the **"Add"** button
2. Fill out the Wizard, as explained below

3. Click on **“Submit”** to submit the changes



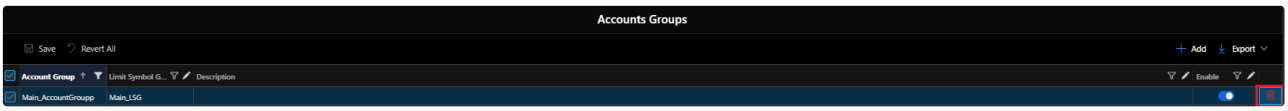


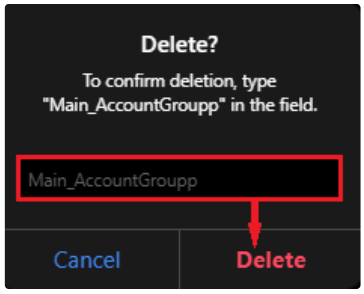
Field	Description
Account Group	The name of the Account Group to be created
Limit Symbol Group	Assign the limit symbol group that you created for this particular Risk Account.
Enable	Indicates whether the Account Group is enabled or disabled ● If ticked, the Account Group is enabled upon creation ● If unticked, the Account Group is disabled upon creation
Description	A short description for reference purposes

Deleting an Account Group

To delete an Account Group

1. Click the **“Delete”** icon next to the desired Account Group
2. To confirm the deletion, type the name of the Account Group in the field.
3. Click on the **“Delete”** button to confirm.

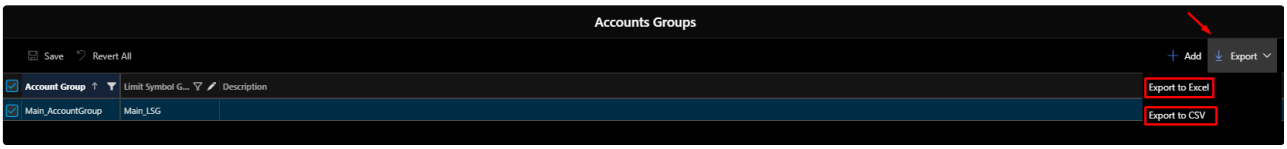




Exporting an Account Group

To Export an Account Group

1. Select the desired Account Group from the list
2. Tick the checkbox to select an Account Group
3. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”

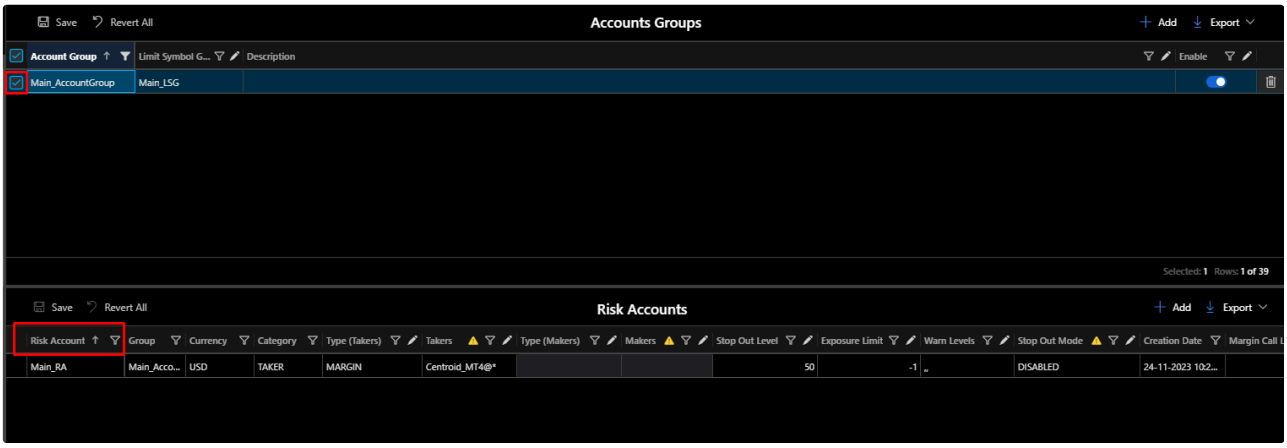


Account Level Configuration

Other parameters can be configured at the level of Risk Account which applies solely to that particular Risk Account, unlike the ones configured at the level of Account Group which are enforced across all Risk Accounts within.

You can configure the following parameters at the level of Risk Account under a selected Account Group:

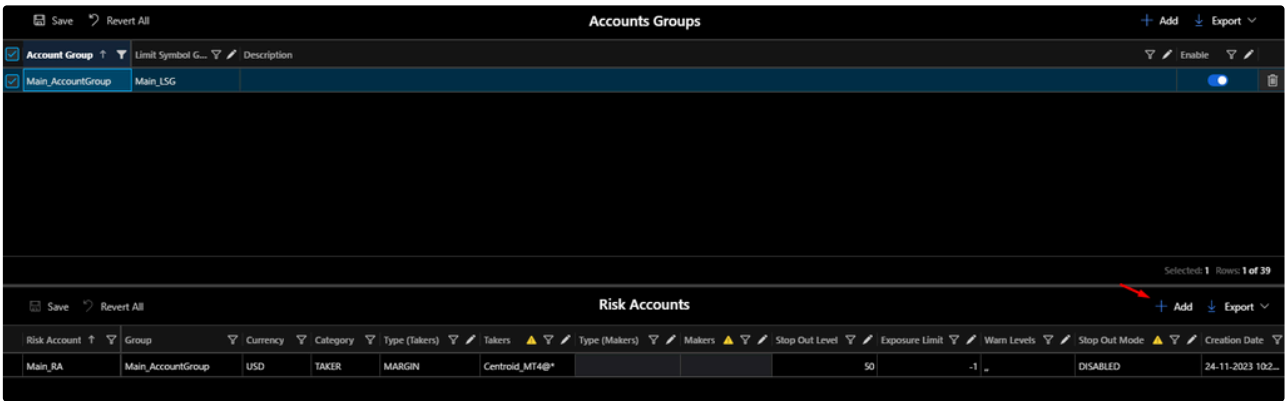
- **Filter by Desired Fields:** Narrow down options based on desired fields to simplify configuration.
- **Enable/Disable Risk Accounts:** Manage the active status of Risk Accounts.
- **Configure Bulk Parameters:** Adjust parameters across multiple Risk Accounts within the Account Group.
- **Configure Parameters of a Risk Account:** Set desired parameters for a specific Risk Account.
- **Delete a Risk Account:** Remove a specific Risk Account.
- **Export Risk Accounts:** Save the list of Risk Accounts within an Account Group to an Excel File or CSV File.

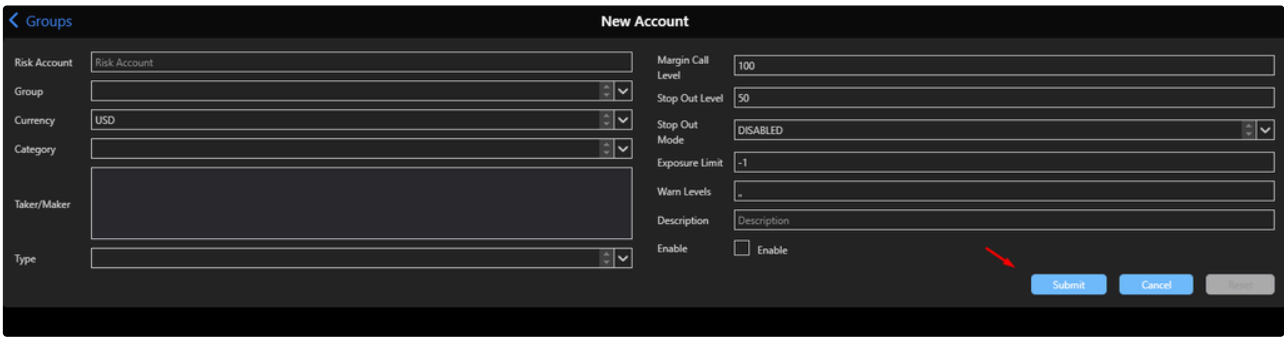


Creating a Risk Account

To create a Risk Account

1. Click the **“Add”** to create a new Risk Account that is under the desired account group.
2. Fill out the Wizard as explained below.
3. Click on **“Submit”** to submit the changes.





Field	Possible Values	Description
Risk Account		Preferred Risk Account Name
Group		The Account Group the Risk Account belongs to
Currency	USD	The currency of the Risk Account into which all transactions are translated. **Note:** Default value is always USD
Category	Taker, Maker	Defines whether the Risk Account is of type Taker or Maker. • **Taker:** If the Risk Account is linked to one or multiple Takers and/or Taker Execution Models • **Maker:** If the Risk Account is linked to one or multiple Makers **Note:** If the Risk Account is linked to a Taker the name of the Taker will appear followed by @*. E.g: FIX_CLIENT@*. IF the Risk Account is linked to a certain Taker Execution Model within the Taker, the name of the Taker will appear followed by @ and the name of the Taker Execution Model. Example: FIX_CLIENT@Account1
Taker/Maker		Indicates whether the Risk Account is defined as a Taker or a Maker upon creating the Risk Account, as explained hereafter in Create a Risk Account section • **Taker:** If the Risk Account is defined as a Taker, this parameter allows to link the Risk Account to one or multiple Takers and/or Taker Execution Models • **Maker:** If the Risk Account is defined as a Maker, this parameter allows to link the Risk Account to one or multiple Makers to check exposure as well as controlling what is being sent to the Maker
Type	Margin, NOP, Risk	The Type of the Risk Account which defines its purpose: • **Margin:** keeps track of all orders under a Risk Account and rejects any order that would increase the exposure above the Margin Call Level threshold

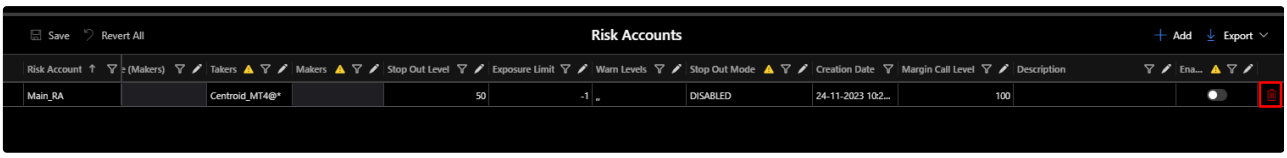
		• **NOP:** Similar to Margin with one additional feature that allows to define an exposure on a per Symbol basis as explained in Limit Symbol Currency hereafter (Exposure Limit field) • **Risk:** This option is only available if the Risk Account is "Taker Type", This applies to B Book execution only and works in conjunction with the NOP Limits defined at the level of the Symbol. When the threshold is breached, the Centroid Bridge would automatically start routing any position that would further increase the exposure to the Maker. For orders of opposite side that would decrease the exposure, the Centroid Bridge would send them to the Maker as well to offset overflow until the exposure is flattened out.
Stop Out Level	50	The margin percentage level at which point the Risk Account will get stopped out and positions will get closed automatically
Stop Out Mode	A_PERCENT A_HIGH_LOSS A_HIGH_MARGIN	Dictates how the Risk Account gets liquidated when the Stop out level is reached: • AB_HIGH_LOSS: Closes the highest losing Position first irrespective of execution (A or B Book) • AB_HIGH_MARGIN: Closes the Position with the highest Blocked Margin first irrespective of execution (A or B Book) • A_HIGH_LOSS: Closes the highest losing A Book Position • A_HIGH_MARGIN: Closes the A Book Position with the highest Blocked Margin first • B_HIGH_LOSS: Closes the highest losing B Book Position • B_HIGH_MARGIN: Closes the B Book Position with the highest Blocked Margin first • Disabled: Stop out is not active thus Account does not get liquidated **Note**: When the Centroid Bridge closes the first Position it checks whether the Stop out level is still above the defined one, if not it will close the next Position depending on the Square Off Mode utilized **Note**: If the Position is made up of Orders accumulated from different Taker Execution Models, the Centroid Bridge will close the Position by sending each Order separately through its respective Taker Execution Model
Enable	*Enabled, Disabled*	Indicates whether the Risk Account is enabled or disabled • If ticked, the Risk Account is enabled • If unticked, the Risk Account is disabled which means that the Risk Account would still track the positions but would not apply margin or risk settings
Exposure Limit	1,000,000,000	This is only relevant to Risk Accounts of type NOP where a Limit in USD notional value can be set at which point no Orders that would increase the exposure above that limit would be allowed. **Note:** Default value is -1 which indicates that no Exposure Limit set
Warn Level	50,70,90	Margin percentage levels of the Risk Account at which point a notification alert will be sent by the Centroid Bridge via email to the registered email address(es). You can add as many values as you want provided that the total number of characters does not exceed 40
Margin Call Level	100	The Margin percentage level at which point no Orders that would further increase the exposure would be allowed
Description		A short description for reference purposes

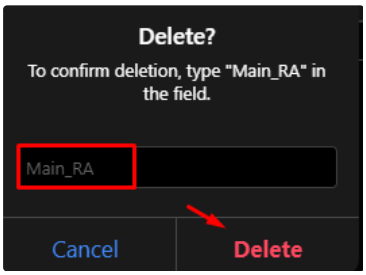
Deleting a Risk Account

To delete a Risk Account

1. Click the **"Delete"** icon next to the desired Risk Account.

2. To confirm the deletion, type the name of the Risk Account in the field.
3. Click on the **“Delete”** button to confirm.

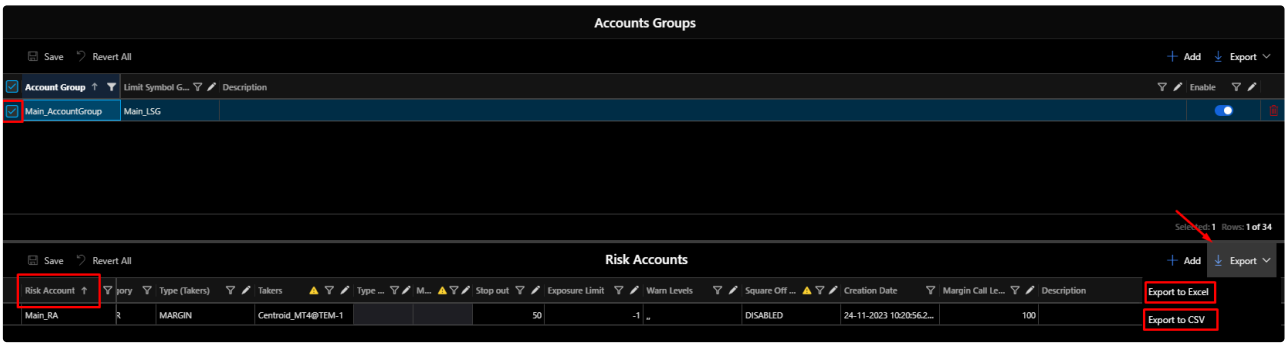




Exporting a Risk Account

To Export a Risk Account

1. Select the desired Risk Account from the list
2. Tick the checkbox to select a Risk Account
3. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



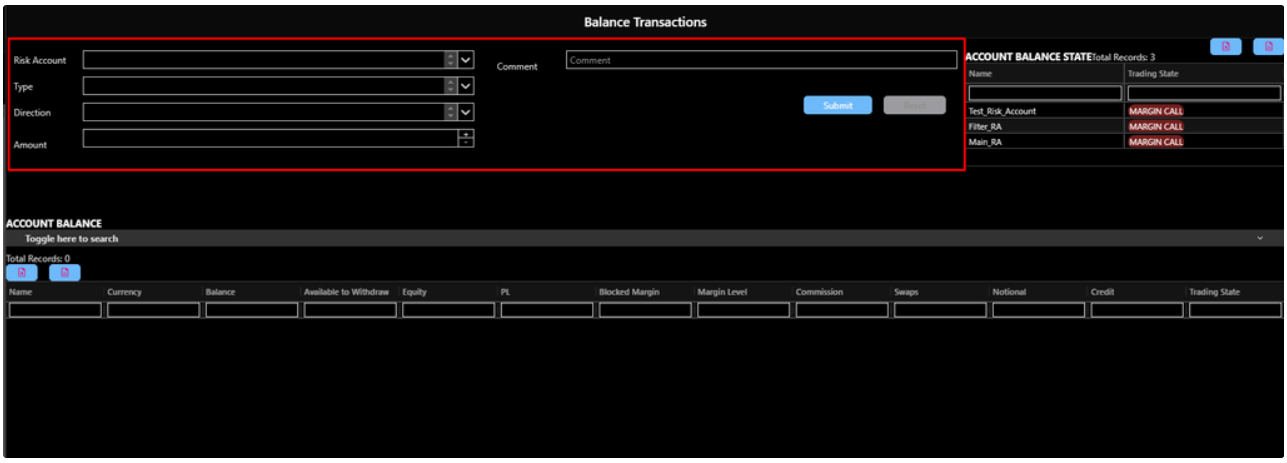
Balance Transaction

Overview

The Balance Transaction component allows one to make a variety of Balance Transactions into a Risk Account in addition to viewing the list of all available Risk Accounts along with their information such as balance, P/L and margin details in real-time. Balance Transactions can be manual if they come from Balance Operations (deposits, withdrawals, credits, etc) or automatic if they result from Trades (realized P/L, Commissions, Swaps, etc).

Within this module, you have the capability to:

- **Balance Transaction on Risk Account:** Adjust account balances for risk management.
- **View Real-Time Risk Accounts:** See up-to-date information on Risk Accounts.
- **List Flat and Stopped Out Risk Accounts:** Identify accounts in a flat state or stopped out.
- **Export Risk Accounts Data (Excel/CSV):** Save Risk Accounts details for analysis.
- **Export Margin Call or Stopped Out Accounts (Excel/CSV):** Specifically export accounts in Margin Call or stopped out status.



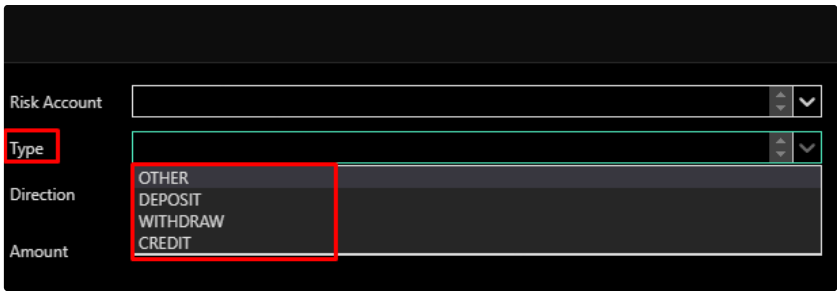
Balance Transaction Operations

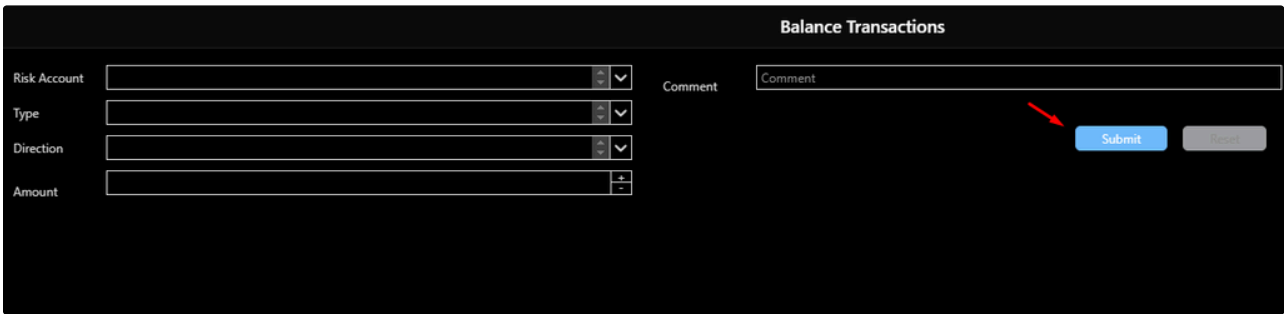
In this component, you can make a variety of Balance Transaction operations into or out of Risk Accounts.

To make a balance transaction:

1. Fill out the wizard as explained below

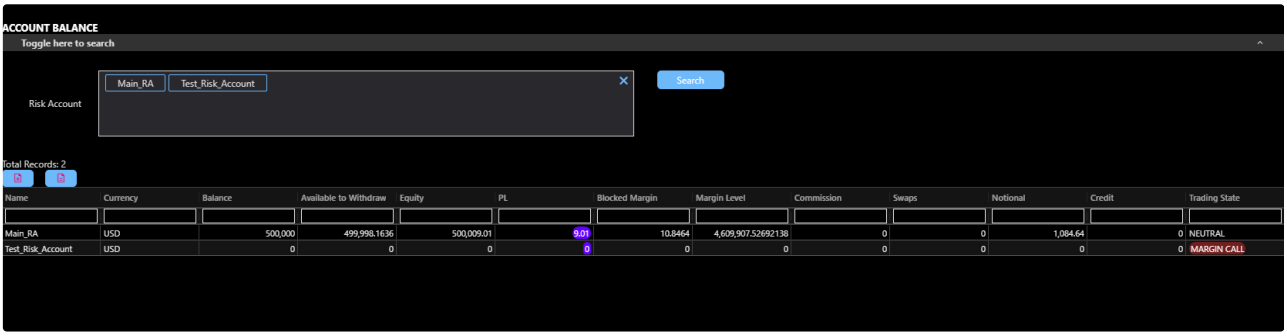
2. Click the **"Submit"** buttons to submit the changes





Account Balance

The Account Balance table displays the list of all available Risk Accounts along with their account information in real-time.



Field	Description
Name	The name of the Risk Account
Currency	The currency of the Risk Account into which all transactions are translated.
Balance	The available balance of the Risk Account **Balance = Deposit + Realized P/L**
Available Withdraw	The available amount for withdrawal which is equivalent to the Free Margin **Available Withdraw = Equity – Margin Blocked - Credit**
Equity	The real-time Equity of the Risk Account **Equity = Balance + running PL**
PL	The real-time floating PL of the Risk Account
Blocked Margin	The amount of used Margin in Account Currency (USD) **Blocked Margin = Volume * (margin/100) * avg price**
Margin Level	The Margin Level Percentage of the Risk Account **Margin Level = Equity/Margin blocked x 100**
Commission	The Commission charged in USD on the Risk Account on a per Symbol basis, if any. Commissions remain unrealized (only affect Equity) until the Position is partially or fully closed, which will affect the Balance based on the closed Volume.
Swap	The Swap charged in USD on the Risk Account on a per Symbol basis for keeping positions overnight, if any. Swaps remain unrealized (only affect Equity) until the Position is partially or fully closed, which will affect the Balance based on the closed Volume

Notional	The total USD exposure of the Risk Account in Notional Volume
Credit	The available credit granted to the Risk Account in USD, if any
Trading State	The Trading State of the Risk Account. • **STOPPED OUT:** Risk Account is flat or negative which could be due to stop out or Account out of balance • **MARGIN CALL:** Risk Account is on Margin Call when the Margin Level hits or drops below the percentage defined in Warn Level set for the Account • **NEUTRAL:** Risk Account has enough balance

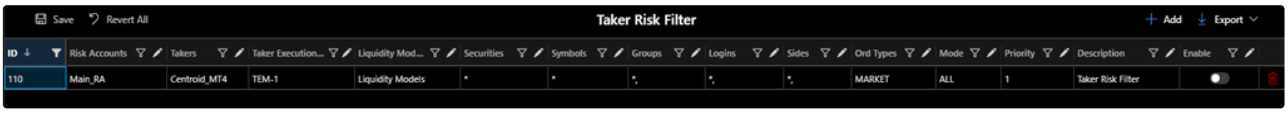
Taker Risk Filter

Overview

Taker Risk Filter allows you to set up filters or rules to link existing risk account(s) using the available filters such as Taker Execution Model, Liquidity Model, Group, Login, etc.

In this component, you will be able to do the following:

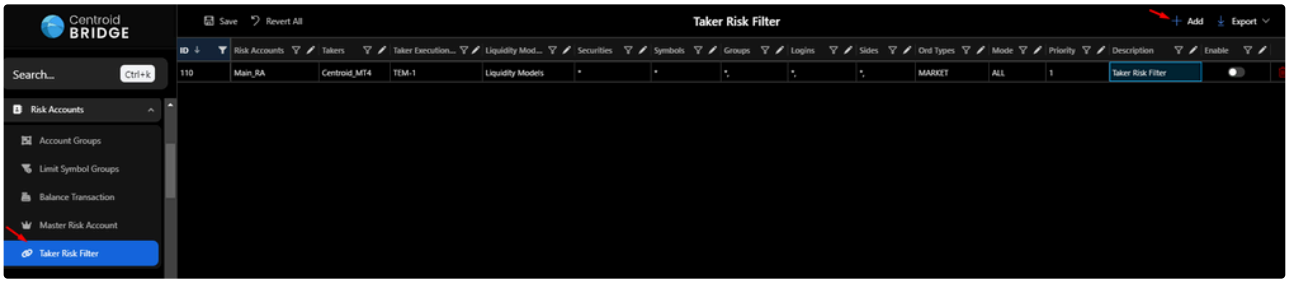
1. **Add a New Taker Risk Filter rule:** Create and implement a new rule for the Taker Risk Filter.
2. **Filter Taker Risk Filter Rules by Different Criteria:** Utilize filters to sort and view Taker Risk Filters based on specified criteria.
3. **Enable/Disable a Particular Taker Risk Filter Rule:** Toggle the active status of a specific Taker Risk Filter rule on or off.
4. **Configure a Particular Taker Risk Filter Rule:** Modify and tailor the settings of a particular Taker Risk Filter rule by editing configurable parameters.
5. **Delete a Taker Risk Filter Rule:** Remove a Taker Risk Filter rule that is no longer needed.
6. **Export the List of Taker Risk Filter Rules to an Excel File / CSV File:** Generate a downloadable file (Excel or CSV) containing the comprehensive list of Taker Risk Filter Rules for external reference or documentation purposes.



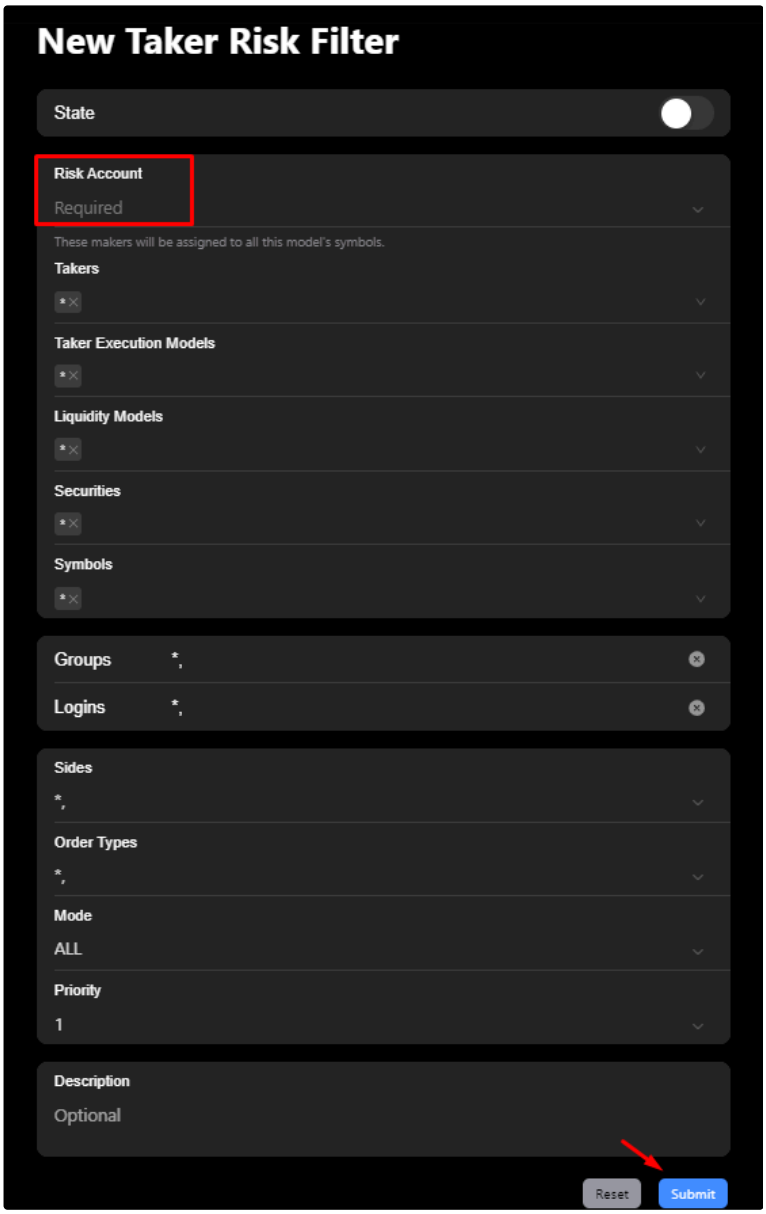
Creating a Taker Risk Filter

To create a Taker Risk Filter

1. Click the **"Add"** button on the top right corner



2. Fill out the Wizard. You may refer to the field descriptions hereafter
3. Click **"Submit"** to submit the changes



Field	Possible Values	Description
Risk Account	*FIX_RA*	Name of the risk account to which the filters need to be applied.
Takers	*Centroid_MT5, Centroid_MT4*	Select one or multiple Takers to be included in the filter as source(s) You may select the Takers from the available list of Takers.
Taker Execution Models	*TEM-1, TEM-2, Test_TEM*	Select one or multiple Taker Execution Models to be included in the filter as source(s) You may select the Taker Execution Models from the list, separating them with commas.
Liquidity Models	*LP1_LM*	Select one or multiple Liquidity Models to be included in the filter as source(s) You may select the Liquidity Models from the list.
Securities	*FX, CFD*	Select one or multiple Securities to be included in the filter as source(s) You may select the Securities from the list, separating them with commas.

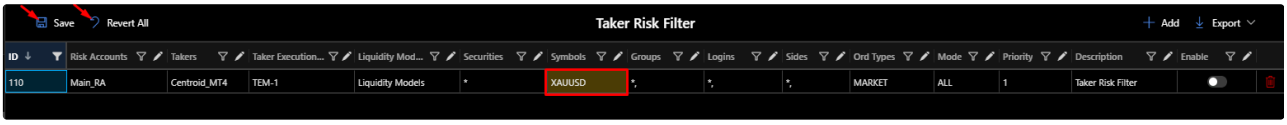
Symbols	*EURUSD, XAUUSD*	Select one or multiple Symbols to be included in the filter as source(s) You may select the Symbols from the list, separating them with commas.
Groups	*real\vip*	Name of MT4/MT5 Group for Takers of type MT4/MT5
Logins	*0, 100002, 500005*	MT4/MT5 Login number for Takers of type MT4/MT5 ***Default Value = 0 (all logins)***
Sides	*BUY, SELL, ALL*	Select the side of the Order to be included as a filter, such as Buy or Sell. Otherwise, just select "*" to include all Order sides
Order Types	*LIMIT, MARKET*	Select the Type of the Order to be included as a filter, such as Market, Limit or Stop. Otherwise, just select "*" to include all Order types.
Mode	*ALL, A, B*	Select the Mode to be included as a filter: • **A Book:** Only considers A Book trades that are routed to the Maker • **B Book:** Only considers B Book trades that are internalized in the Centroid Bridge • **All:** Considers all trades.
Priority	*1,2,10*	This parameter applies in the event of having overlapping configurations. You can proceed to set the priority to adjust the rules, On a scale 1-10, rule with priority 10 will be considered first.
Description		A short description for reference purposes

Note: This feature is not compatible with the **"RISK"** type if the Taker Risk Filter mode is set to **"B only"**

Configuring a Taker Risk Filter

To configure/modify an existing Taker Risk Filter

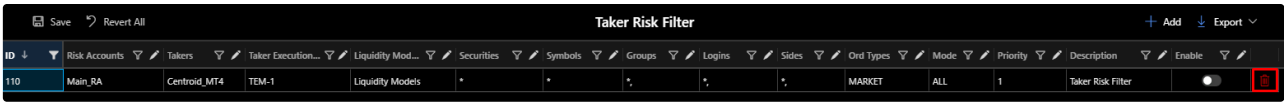
1. Double-click the desired column(s) in the Taker Risk Filter.
2. You will be presented with a pop-up Window where you can edit and click submit as seen below.
3. Click on **"Save"** to save the changes.



Deleting a Taker Risk Filter

To delete a Taker Risk Filter

1. Click the **"Delete"** icon next to the desired Taker API Link configuration
2. Enter the ID in the pop-up window & Click on **"Delete"** button to confirm the deletion

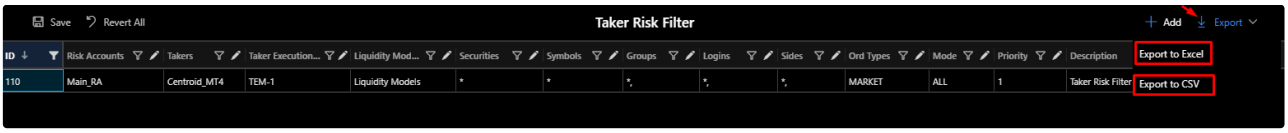


Exporting a Taker Risk Filter

To export a Taker Risk Filter configuration

1. Filter the desired Taker Risk Filter rules using the available filters.

2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



Master Risk Account

Overview

Master Risk Account can be thought of as a read-only Pool Account containing multiple Risk Accounts. You can link an unlimited number of Risk Accounts upon creating a Master Risk Account whose trades and account information can be seen in an aggregated view.

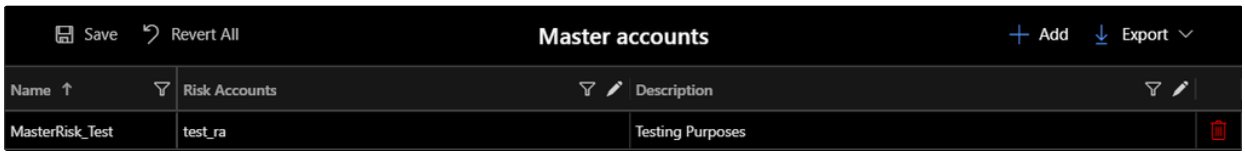
Positions and Account information pertaining to different Risk Accounts within the Master Risk Account are shown as aggregated values. As for history trades and balance transactions, the entries are displayed for all the Risk Accounts underneath.

The Master Risk Account, just like a regular Risk Account, can be linked to a Risk User with a dedicated interface through which you can view all trading and balance activities pertaining to the Master Risk Account, hence all Risk Accounts underneath.

Note: Master Risk Account can have a read-only User Interface to monitor the Risk Accounts' activities without having the ability to trade on behalf of any Risk Account.

In this component, you can view all the Master Accounts defined in the portal in addition to doing the following:

- **Create a new Master Risk Account:** Establish a new Market Risk Account.
- **Filter and look up a particular Master Risk Account:** Search for and identify a particular Market Risk Account.
- **Configure an existing Master Risk Account:** Modify and tailor the settings of a particular Market Risk Account by editing configurable parameters.
- **Delete a Master Risk Account:** Remove a Master Risk Account rule that is no longer needed.
- **Export the list of Master Risk Account to an Excel/CSV file:** Generate a downloadable file (Excel or CSV) containing the comprehensive list of Market Risk Account for external reference or documentation purposes.

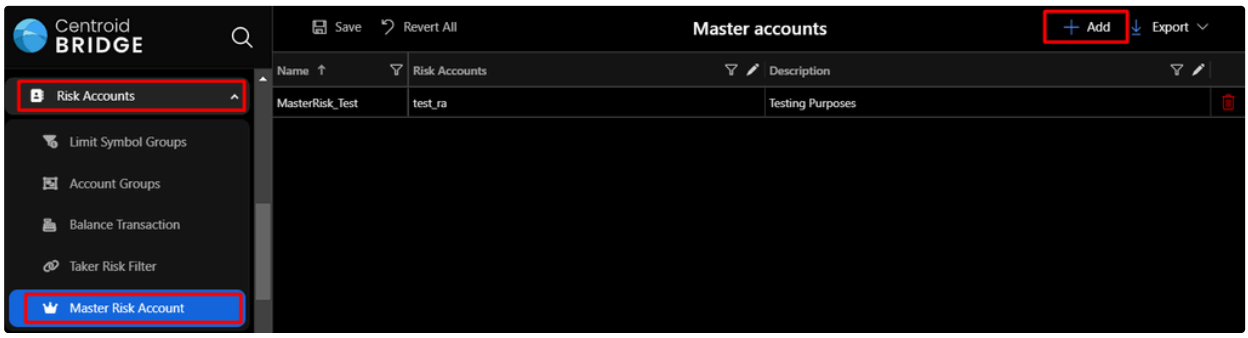


Create a Master Risk Account

To create a Master Risk Account:

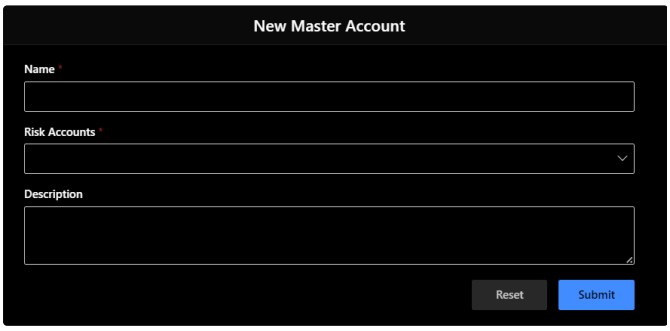
1. Go to Risk Accounts > Master Risk Account > Click on "

Add"



1. Fill out the Wizard as explained below
2. Click on

"Submit" to submit the changes



Field	Description
Name	The name of the Master Risk Account to be created
Risk Accounts	Select the Risk Accounts that you wish to link to the Master Account. You may select an unlimited number of Risk Accounts
Description	A short description for reference purposes

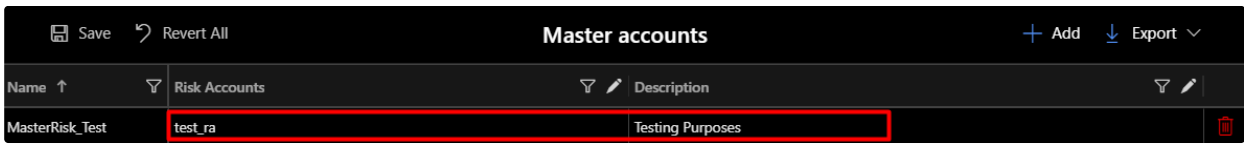
Modify a Master Risk Account

To modify a Master Risk Account existing configuration:

1. To configure, double-click on Risk Accounts or Description of your desired Master Risk Account.
2. Click the

"Save" button on top to deploy the changes

Note: You cannot edit the name of the existing Master Risk Account.



Delete a Master Risk Account

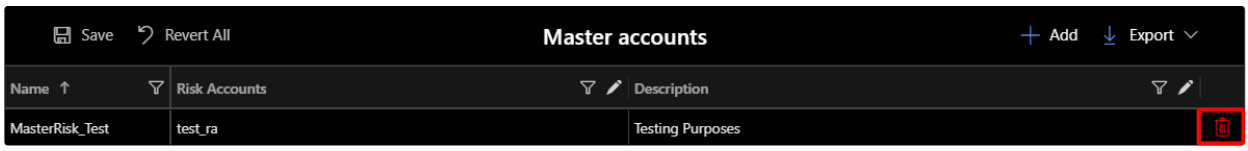
To delete a Master Risk Account:

1. Click on the

"Trash bin" icon next to desired Master Risk Account

1. To confirm deletion, type the name of the Master Risk Account
2. Click

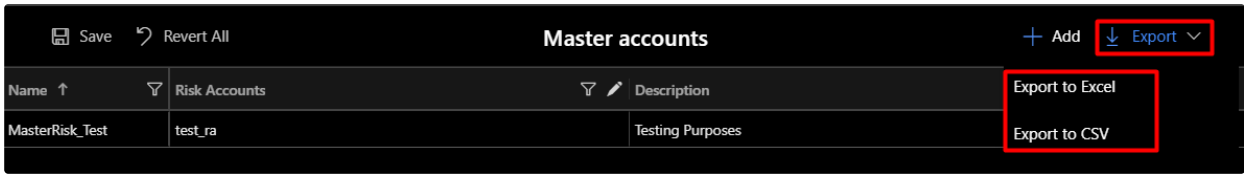
"Delete" to confirm the deletion



Exporting a Market Risk Account

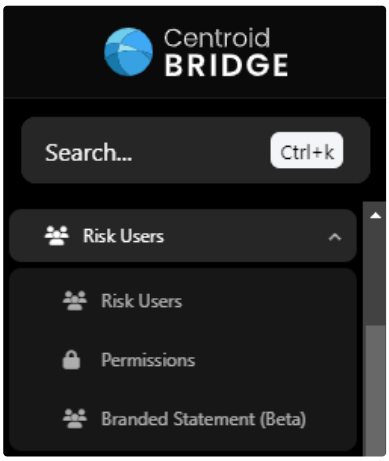
To export a Market Risk Account configuration

1. Filter the desired Market Risk Account Filter rules using the available filters.
2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



Risk Users

The Risk Users Module allows to create and configure Risk Users, Permissions, and Branded Statement. Upon clicking the “Risk Users” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.



Risk Users

Overview

The Risk Users module complements the Risk Accounts module, enabling the creation of client users linked to specific Risk Accounts. This facilitates granting clients access to a specialized trading interface for reviewing account balances, open and closed positions, and conducting various balance operations. Additionally, clients can directly execute trades from the Trading Platform. Detailed coverage of these features will follow in the Trading and Reports components, specifically within the Trader view.
A key scenario involves creating a Risk User for a specific Risk Account tied to a FIX Taker client. The FIX client accesses a personalized interface for monitoring positions, balances, and direct trading. Risk Users can access one or multiple Risk Accounts. Users can be linked to risk accounts, acting as a read-only pool to monitor and aggregate trades and balances from multiple accounts.

Users

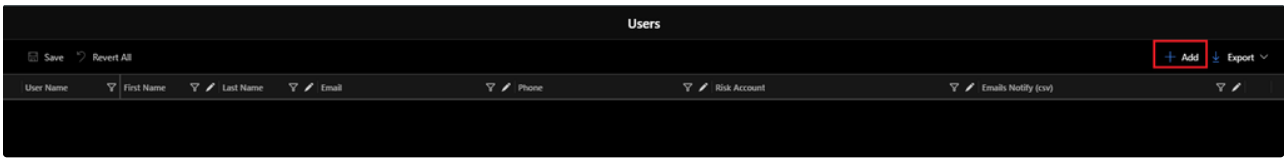
Within this module, you have the capability to:

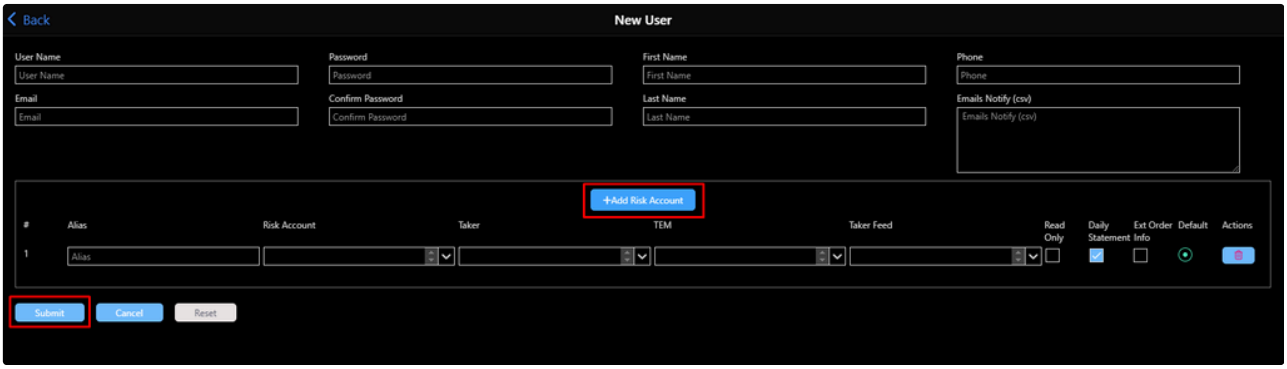
- **Create Risk User:** Establish a new Risk User.
- **Filter Risk Users:** Sort and identify Risk Users from the available list.
- **Edit Risk User Info and Configuration:** Modify details and settings for a Risk User.
- **Delete Existing Risk User:** Remove a currently defined Risk User.
- **Export Risk User List (Excel/CSV):** Save the list of Risk Users to an Excel or CSV file.

Creating a Risk User

To create a new Risk User

1. Click **"Add"** to create a new Risk User.
2. Fill out User Information
3. Click **"Add Risk Account"** to link the Risk User to a Risk Account. You need to repeat this step for an additional Risk Account to be linked to the Risk User
4. Configure Risk Account based on Risk User preference
5. Click **"Submit"** to submit the changes





New User

Field	Required	Description
Username	Yes	The username of the Risk User to be used to access the User interface.
Email	Yes	Email of Risk User.
Password	Yes	The password for the Risk User is utilized for accessing the user interface.
Confirm Password	Yes	Please verify the password entered in the preceding field.
First Name	Yes	The First Name of the User which will be displayed on top upon logging in.
Last Name	Yes	The User's Last Name, which will appear at the top upon logging in.
Phone	No	Contact number of the Risk User.
Emails Notify (csv)	No	List the emails eligible to receive the Daily Statement when the Daily Statement option is selected.

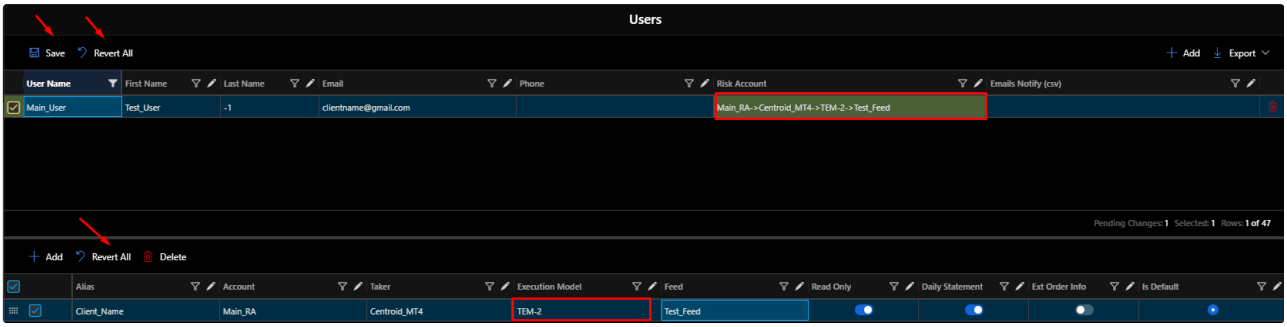
Assigning the Risk Account: Click on Add Risk Account

Field	Possible Values	Description
Alias	*USD_RA, TakerName_RA, MakerName_RA*	An acronym to tell apart different Risk Accounts when several are chosen. This helps switch between them easily in the user interface.
Risk Account		Connect the Risk Account created previously to the Risk User.
Taker	*Centroid_MT4, Centroid_MT5*	Specify the specific Taker for the Risk Account if it's linked to multiple Takers or TEMs across different Takers.
TEM	*Tem-1, Test-TEM, TEM-2*	Indicate the specific Taker Execution Model (TEM) for the Risk Account to pull data from. Incase of 2 or more TEM's kindly on Add Risk Account for second row.
Taker Feed	*Plain_TF, 10Points_TF, Retail_Feed*	Specify the Taker Feed, indicating the assigned suffixes used by your Taker Client.
Read Only		Indicates whether the Risk User is a Read Only User • If ticked, User read-only access limited to viewing the Account and statement without the ability to trade • If unticked, User has full access, view and trade
Daily Statement		Specifies whether the Risk User receives End-of-Day (EOD) Statements dispatched by the Centroid Bridge.
Ext Order Info		Indicates whether the Risk User can view Orders coming from external Takers (platforms) or only the one placed via the GUI • If ticked, User views Orders coming from external Takers. • If unticked, User does not view Orders coming from external Takers it only views the ones placed from the Use GUI
Default		Sets the selected Risk Account to default when Risk User logs in, this is incase of having multiple Risk Accounts.

Editing a Risk User

To modify an existing Risk User

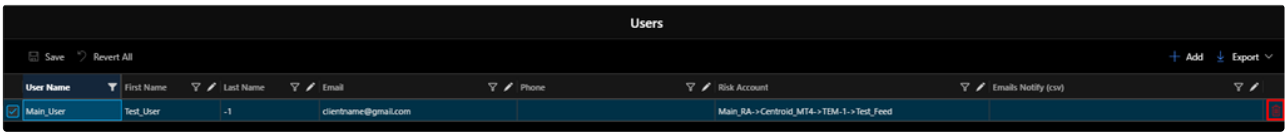
1. Double-click on the details you want to edit
2. Click the **"Save"** button to apply the changes

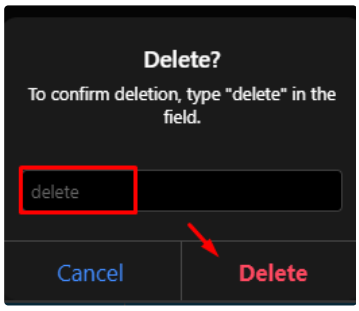


Deleting a Risk User

To delete an existing Risk User

1. Click the **"Delete"** icon next to the desired Risk User
2. Click the **"Delete"** in the pop-up window to confirm the deletion

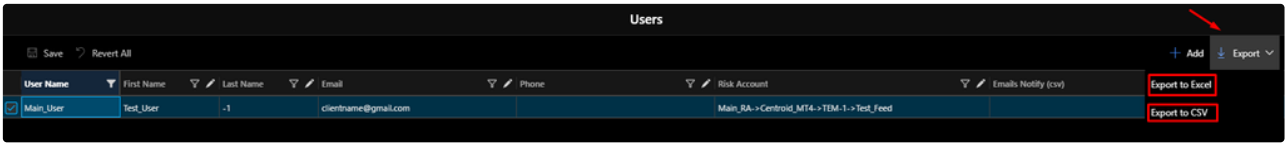




Exporting Risk User List

To Export a Risk User

1. Select the desired **Risk User** from the list
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



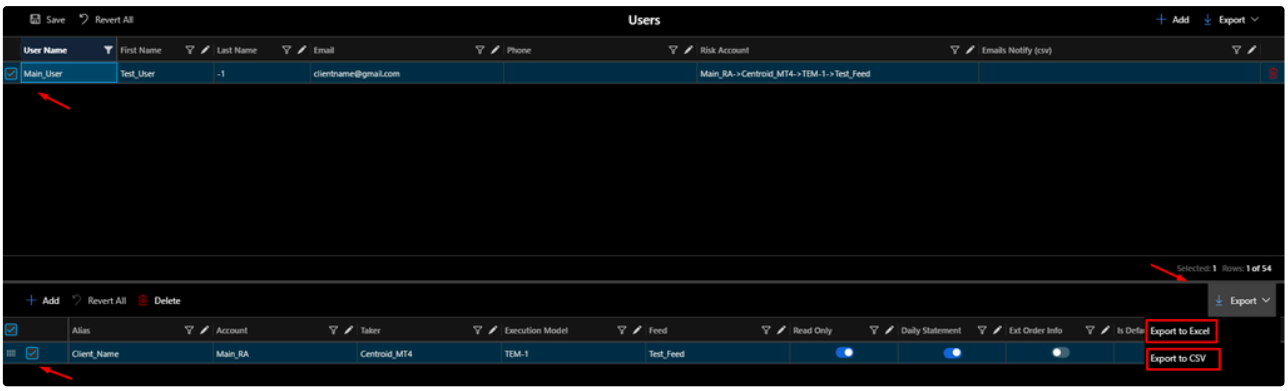
Exporting a Risk User

To Export a Risk User

1. Select the desired **Risk User** from the list

2. Tick the checkbox to select a **Risk User**

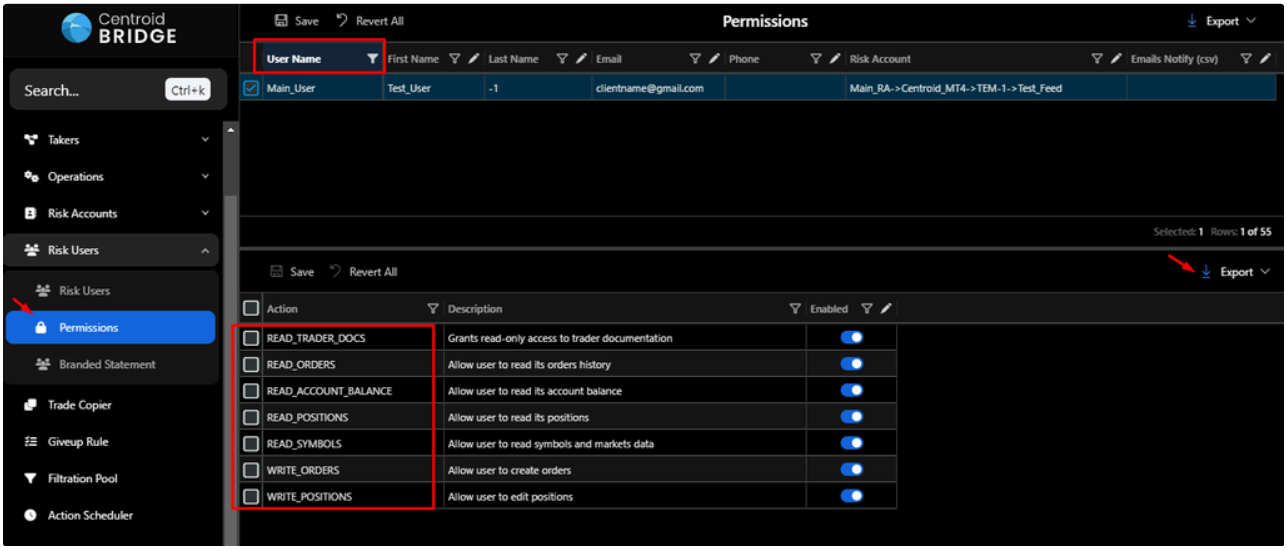
3. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



Permissions

Overview

The permissions module allows you to control the functionalities or manage the privileges of the Risk user. The broker has the option to allow a user to access specific sections of their Centroid Risk Account and Trading Platform.



The available permissions are as follows:

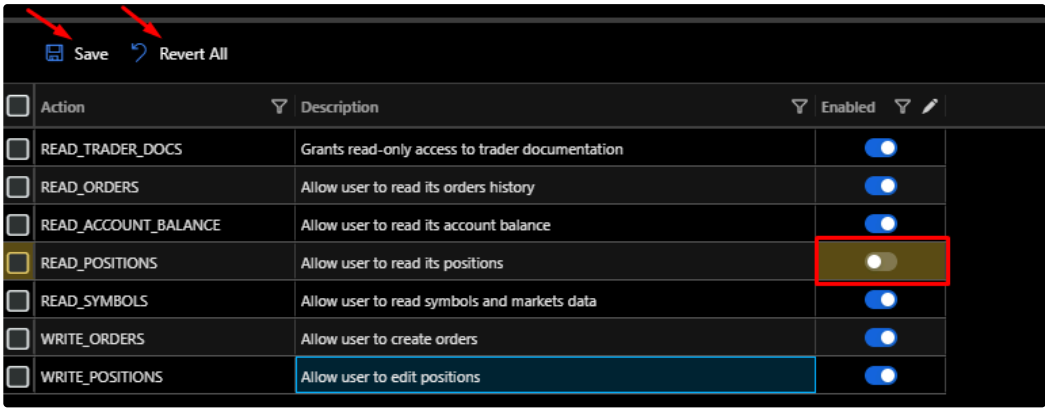
Field	Description
READ_TRADER_DOCS	Enabling this permission will allow the Risk user to view the trading documentation.
READ_ORDERS	Enabling this permission will allow the Risk user to view the Order History.
READ_ACCOUNT_BALANCE	Enabling this permission will allow the Risk user to view the Account Balance & Statement.
READ_POSITIONS	Enabling this permission will allow the Risk user to view the Positions.
READ_SYMBOLS	Enabling this permission will allow the Risk user to view the available Symbol List.
WRITE_ORDERS	Enabling this permission will allow the Risk user to place trades from the platform via Market.
WRITE_POSITIONS	Enabling this permission will allow the Risk user to modify the current positions (SL/TP, Position Close)

Configuring Permissions for a Risk User

To configure the permissions of a specific risk user

1. Select the desired Risk User from the list.
2. Review the Permissions listed under "Action" and their corresponding descriptions.

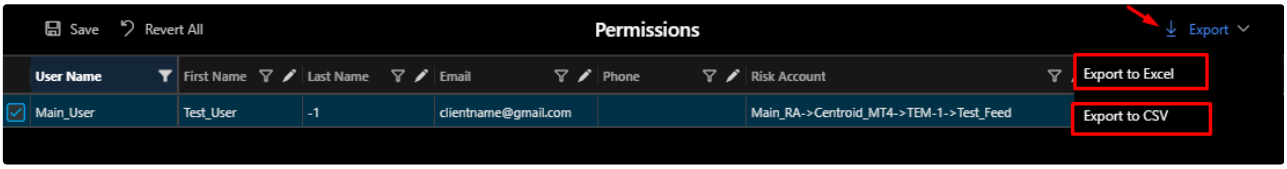
3. To disable or enable a specific permission, use the toggle button.
4. Click on **"Save**" to save the changes.



Exporting Permissions

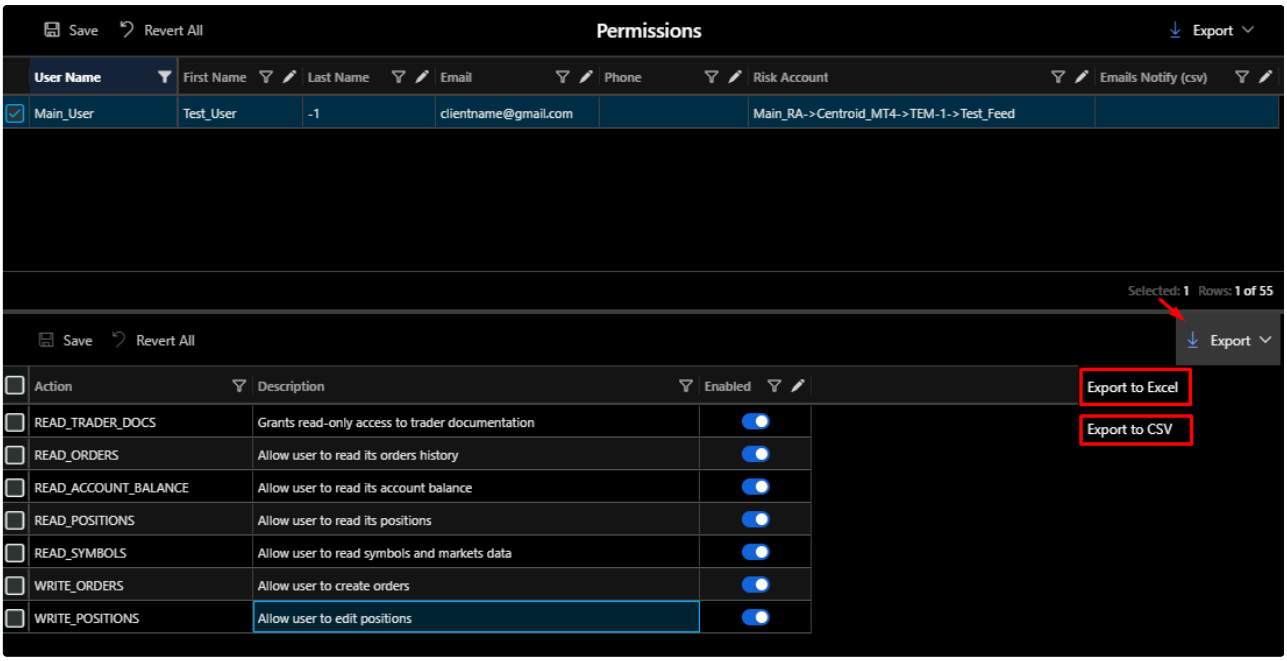
To export the list of risk users

1. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



To export the permissions of a specific risk user

1. Select the desired Risk User from the list.
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"



Trade Copier

Overview

Trade Copier allows you to execute the Trade from the Master Account to the Target / Slave Account. Trade Copier has different ways to execute the slave trade, including in the same direction or reverse. It also allows for the adjustment of slave trade volumes, allowing for increasing or decreasing as required [depending on the Ratio Configuration].

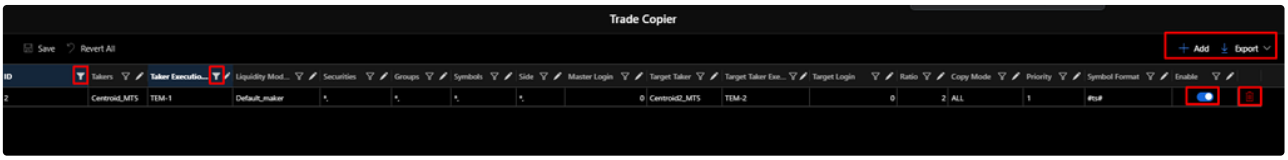
The rules are divided into source and target where the source specifies the accounts to be executed and the target specifies where and how to execute the trades.

Direct/Reverse Trade Copier

Within this component, you'll have the capability to perform the following actions

1. **Add a New Trade Copier Rule:** Create and implement a new rule for the Trade Copier functionality.
2. **Filter Trade Copier Rules by Different Criteria:** Utilize filters to sort and view Trade Copier rules based on specified criteria.
3. **Enable/Disable a Particular Trade Copier Rule:** Toggle the active status of a specific Trade Copier rule on or off.
4. **Configure a Particular Trade Copier Rule:** Modify and tailor the settings of a particular Trade Copier rule by editing configurable parameters.
5. **Delete a Trade Copier Rule:** Remove a Trade Copier rule that is no longer needed.
6. **Export the List of Trade Copier Rules to an Excel File / CSV File:** Generate a downloadable file (Excel or CSV) containing the comprehensive list of Trade Copier Rules for external reference or documentation purposes.

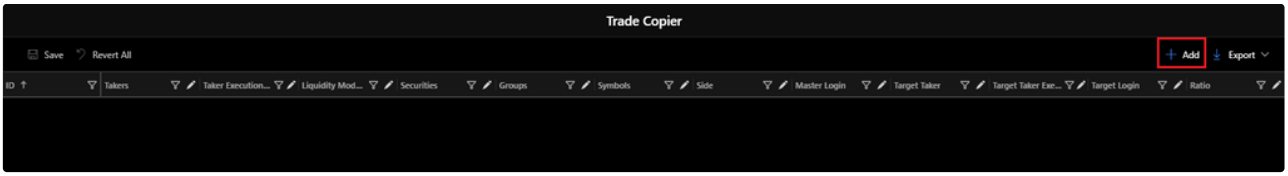
   As stated above, you may configure a direct copy rule to copy exactly the same trade or a reverse copy that opens the opposite side of the trade.

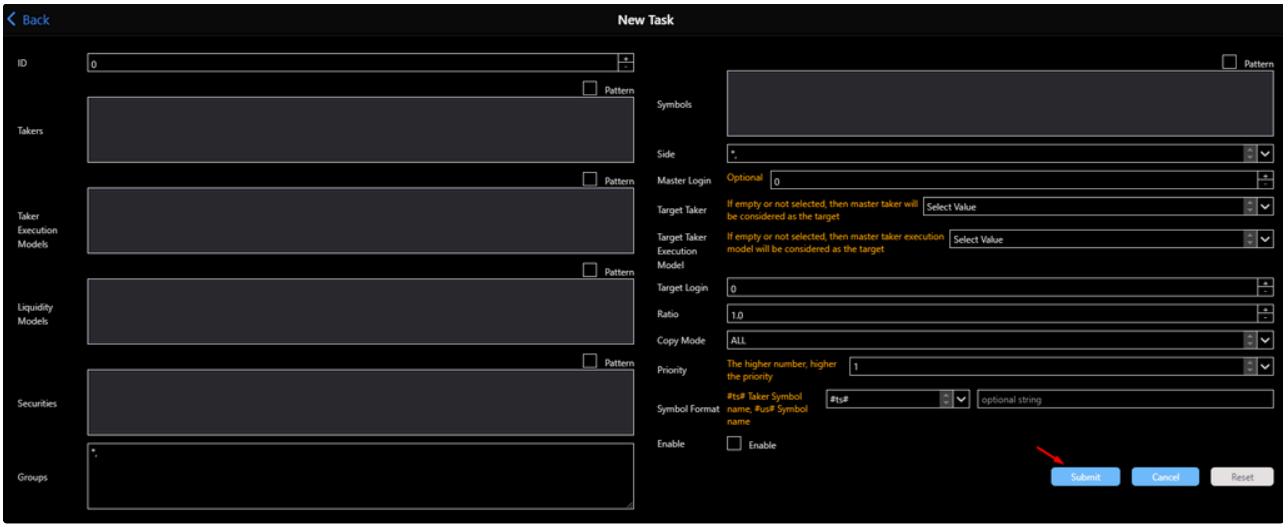


Create a Direct/Reverse Trade Copier

To create a new Trade Copier Rule

1. Click **"Add"** to create a new Trade Copier Rule.
2. Fill out the wizard with all the required fields, you may refer to the field descriptions hereafter
3. Click **"Submit"** to submit the changes





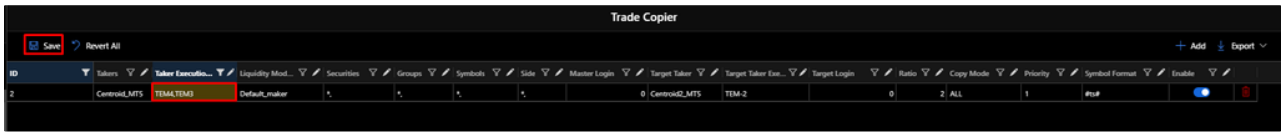
Field	Description
ID	A unique ID number for the configured rule
Takers	The source Taker(s) You may select one or multiple Takers from the list or type a pattern manually by ticking the Pattern tick-box ***Note**:* You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Taker Execution Models	This is source TEM, meaning all the trades executed with this TEM shall be executed to the Slave/Target account. **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Liquidity Models	Specific Liquidity Model(s) assigned to the TEM. You may select one or multiple LM(s) from the list or type a pattern manually by ticking the Pattern tick-box. **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Securities	If you specify any Security here, then only those symbols [under this security] are entitled to be executed from the Master account to the Slave/Target account.
Groups	You may select one or multiple MT4/MT5 Groups by typing in the name of the Group(s). If particular Groups are selected, only Logins belonging to these Groups will have their trades executed to the target account. **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Symbols	If you specify any Symbol here, then only those symbols are entitled to be executed from the Master account to the Slave/Target account. **Note**: By default, all Symbols are selected. You may select particular ones if you wish to restrict the rule to particular Symbols
Side	Default Value: * [meaning all] However, broker can further change the settings to either Buy or Sell trades to be executed from the Master to Slave account.
Master Login	Select a particular MT4/MT5 Login whose trades will be used for execution. **Note:** This is a very specific rule whereby the copy will be applicable to the selected Login only. **Note**: It is important to ensure that the Login already satisfies the other criteria [meaning it is targeting the source TEM]. Otherwise, the copy rule would not work
Target Taker	Select one Target Taker of type MT4 or MT5. This could be the same Taker or even a different Taker within the same Centroid Bridge. **Note**: If no Target Taker is selected, the Centroid Bridge will use the same Taker source for target as well

Target Taker Execution Model	Select the Target Taker Execution Model, this will define where the target or slave trades will be executed. **Note:** If no Target TEM is selected please note it will use the Source TEM as Target TEM, and all the trades will follow the master TEM for execution.
Target Login	Specify an MT4/MT5 Login into which the copied trades will be booked. This is an optional field that helps keep track of all copied trades pertaining to a particular rule in one single coverage account
Ratio	A component to decide the direction and trade volume to be executed from the master to the slave account. • Positive: executes trades in the same direction [If 1, then same volume, if 2 it will start multiplying but in same direction] • Negative: copies trades in the opposite direction (reverse copy) [If 1, then same volume, if 2 it will start multiplying but in reverse direction]
Copy Mode	Specifies which flow to copy: • All: copies all trades, A and B Book • A: copies A Book trades only • B: copies B Book trades only
Priority	This parameter applies in the event of having overlapping configurations. You can proceed to set the priority to adjust the rules, On a scale 1-10, rule with priority 10 will be considered first.
Symbol Format	Specifies in what Symbol format the trade will be booked in the Target Login, if Target Login is selected. You may choose one of the two available formats below and even add a string or suffix that will be added to the end of the Symbol. • #ts#: Taker Symbols are used when the Master and the Slave account both the accounts have access to the **same set of symbols** on the Trading platform i.e. MT4/MT5. Example: Master is placing a trade with EURUSD@ the same EURUSD@ is available on the Slave account on the MT4/MT5. • #us#: Universal Symbols are used when the Master and the Slave account both the accounts have access to a **different set of symbols** on the Trading platform i.e. MT4/MT5. Example: Master is placing a trade with EURUSD@ but this symbol is not available for the slave account on the Trading platform i.e. MT4/MT5 in this case you will proceed to do the below configuration: **Note**: It is important to ensure that the Target Login has access to the specified Taker Format in the MT4/MT5 Server. Otherwise, trade will not be booked
Enable	Indicates whether the Trade Copier rule is enabled or disabled • If ticked, the Trade Copier rule is enabled upon creation • If unticked, the Trade Copier rule is disabled upon creation, hence no trades will be copied via this rule

Configure Trade Copier Rule

To configure or modify an existing Trade Copier rule

1. Select the desired Trade Copier rule
2. Configure the desired fields
3. Click the **"Save"** button on top to deploy the changes



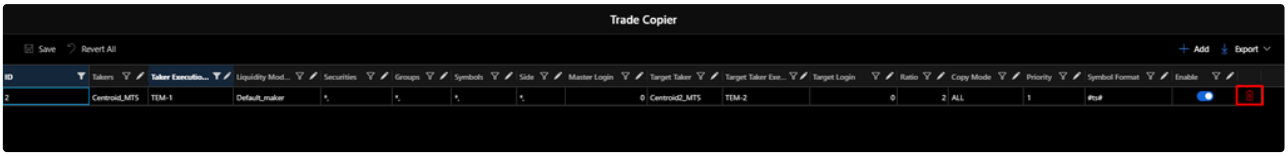
MetaTrader 5 (MT5) Trade Copier Configuration

Note: While setting up the Trade Copier Rule, please read the MT5 Gateway Manual to configure the settings on the MT5 Level, if this configuration is not done/completed on MT5, the trades won't be copied from Master to the Slave Account.

Delete a Trade Copier Rule

To delete a Trade Copier rule

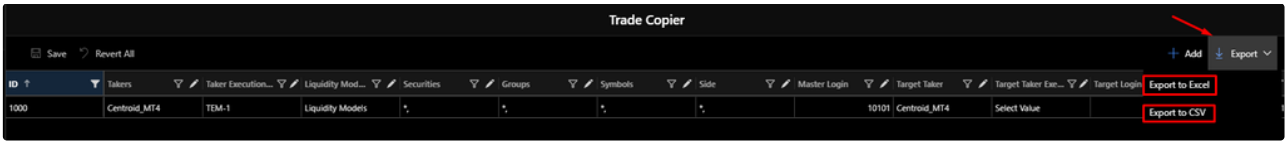
1. Click the **“Delete”** icon next to the desired Trade Copier rule
2. Enter the ID in the pop-up window & Click on **“Delete”** button to confirm the deletion



Exporting a Trade Copier Rule

To Export a Trade Copier Rule

1. Filter the desired Trade Copier Rule(s) using the available filters.
2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”



FAQ

- Why haven't the trades for the slave account been executed?

  To validate the accuracy of the rule, clients can review the filters applied during its creation. Any potential issues may arise from TEM and External Filters or Master and Target Symbol (suffix), if any. For further assistance, feel free to contact Support via Skype or Slack.

- I cannot see trades on the MT5 account even though they are visible on the bridge for the slave account. What could be causing this discrepancy?

  The issue might be related to missing MT5 settings. Refer to the Gateway Manual for specific guidance on these settings.

- Can I use multiple MT5 accounts as the Master Account for a specific rule?

  You cannot use more than one MT5 account as the Master login for a specific rule.

- What does a '0' value indicate under Master Login?

  Master Login '0' signifies all accounts

- Can I use multiple MT5 accounts as the Target Account for a specific rule?

  You cannot use more than one MT5 account as the Target login for a specific rule.

Giveup Rule

Overview

Give-up is primarily employed for monitoring your market exposure, including your A Book and B Book exposure within a single MT4/MT5 account. It's important to note that these trades aren't executed in the market. Instead, a Give-up account functions as a presentation account, aggregating all trades originating from the designated TEM. These accounts can also be referred to as **Coverage Accounts.**

Within this module, you have the capability to:

- **Add a new Give-up Rule:** Incorporate a new Give-up Rule.
- **Filter Give-up Rules:** Categorize Give-up Rules based on different criteria.
- **Enable/Disable a Give-up Rule:** Manage the active status of a Give-up Rule.
- **Modify an Existing Give-up Rule:** Adjust settings for an existing Give-up Rule.
- **Remove an Existing Give-up Rule:** Delete a specific Give-up Rule.
- **Export Give-up Rules:** Save the list of Give-up Rules to Excel or CSV files.

The Give-up Rule consists of the following components:

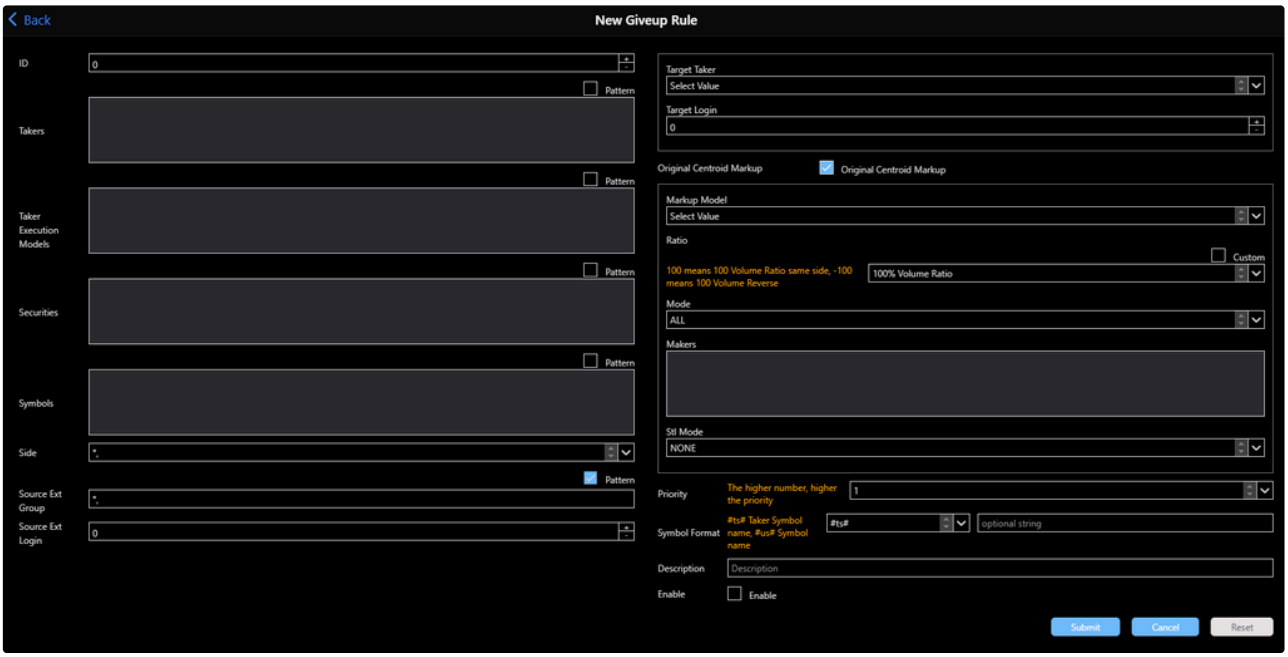
- **Source:** Taker(s) and/or a Taker Execution Model(s) whose trades are covered or booked into an MT4/MT5 Account.
- **Target:** MT4/MT5 Taker along with an MT4/MT5 Account within the Taker into which the trades are booked
- **Configuration Settings:** Various parameters based on which the trades are covered.

You may also specify additional parameters to the configuration by adding some macros in the description as explained hereafter.

Create a Give-up Rule

To create a Give-up Rule

1. Click **"Add"** button to create a new Give-up Rule.
2. Fill out the Wizard. You may refer to the field descriptions below
3. Click **"Submit"** to submit the changes



Field	Description
ID	A unique ID number for the configured rule
Taker	The source Taker(s) You may select one or multiple Takers from the list or type a pattern manually by ticking the Pattern tick-box **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Taker Execution Model	This is source TEM, meaning all the trades executed with this TEM shall be executed to the target TEM/Account as well. **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Securities	If you specify any Security here, then only those symbols under that security are entitled to be executed from the Master account to the Slave/Target account.
Symbols	The Symbol(s) whose trades will be booked into the Coverage Account. If a particular Symbol is chosen within a Give-up Rule, only trades pertaining to the chosen Symbol will be covered, trades whose Symbols are not specified will be overlooked (not covered) unless they belong to a chosen Security in the Securities parameter above. You may select one or multiple Symbols from the list or type a pattern manually by ticking the Pattern tickbox. Note: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
Side	Default Value: *(all) However, broker can further change the settings to either Buy or Sell trades to be executed from the Master to Slave account.
Source Ext Group	It is relevant to Takers of type MT4 or MT5 and allows to specify a Source MT4/MT5 Group where only trades belonging to MT4/MT5 Accounts under those Groups will be covered. **Note:** You may enter multiple Groups comma separated or use a pattern with wildcards (*) for all and negations (!) for exclusion.
Source Ext Login	It is relevant to Takers of type MT4 or MT5 and allows to specify a sole Source MT4/MT5 Account whose trades will be covered. **Note:** You may select One MT4/MT5 Account only at a time.
Target Taker	Defines the MT4/MT5 Taker which contains the Coverage Account into which the trades will be copied.

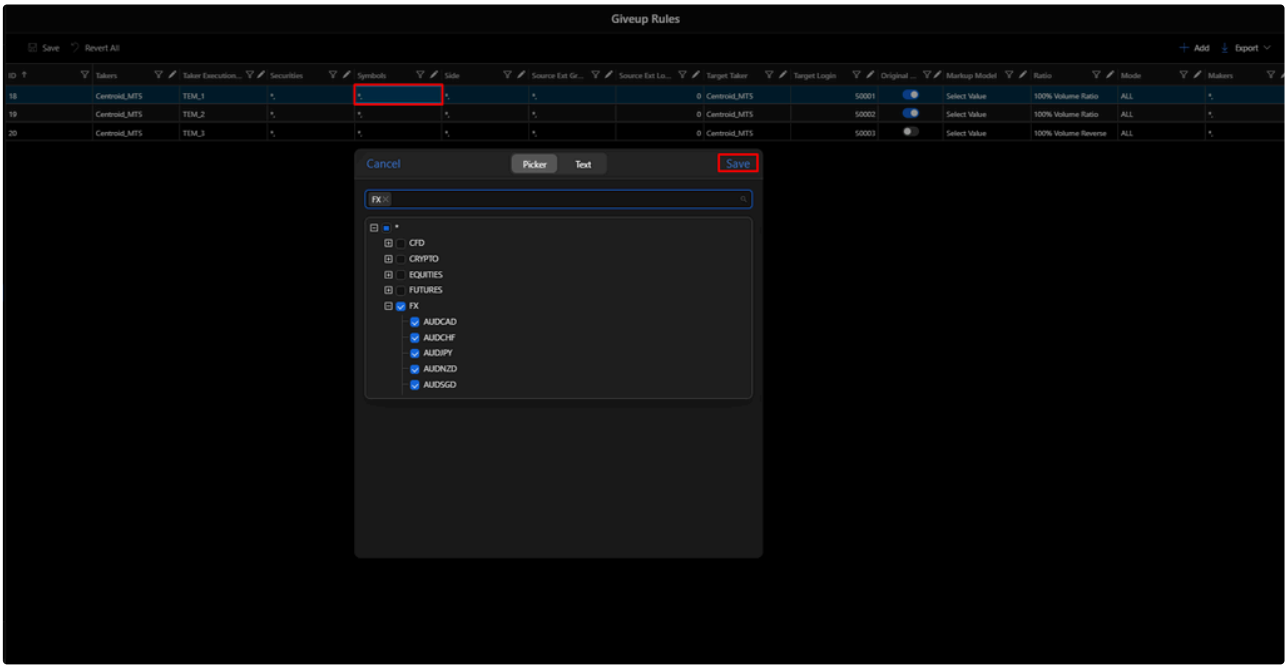
	You can select one Taker from the list of MT4/MT5 Takers that are configured in the Centroid Bridge.
Target Login	The MT4/MT5 Login Number of the Coverage Account into which the trades pertaining to the configured Give-up Rule will be booked. **Note:** You may select One Target Login only at a time.
Original Centroid Markup	Indicates whether the covered trade price will include the Markup defined on the Centroid Bridge. Basically the MM assigned for the Master / Source TEM. • Ticked, the price of the covered trade will include the markup same as Master / Source. • Unticked, the price of the covered trade will not include any markup, hence it will be covered with the raw price just in line with the way it's booked on the Maker's side.
Markup Model	Allows to add additional markups to the booked price in case you wish to show a higher price. This can be done by selecting an existing Markup Model or creating a new one for that purpose in which you can define the additional Markups on a per Symbol basis. This Additional Markup Model is totally independent and has no relation to the Source / Master TEM, just adding the markup to the slave account when booking the trade.
Ratio	A percentage Ratio at which the trade will be covered. You can select a percentage from the dropdown list which contains predefined values or type in the value manually by ticking "Custom" which turns it into a free text. • **Same Direction:** For same direction trading we have options available from 10% to 100% volume ratio, 100 means the exact same volume and same direction. • **Reverse Direction:** For reverse direction trading we have options available from 10% to 100% volume reverse ration, 100 means exact same volume and reverse direction. • **Custom:** If the available option is not satisfying your business requirements, we have an option to create your own percentage and decided same or reverse direction. Example: For same direction but double the quantity, just check Custom and write 200% For reverse direction and double the quantity, juts check Custom and write -200%, **(-)** means **reverse**.
Mode	Specifies which flow to cover: • **A Book:** Only covers A Book trades that are routed to the Maker • **B Book:** Only covers B Book trades that are internalized in the Centroid Bridge • **All:** Copies all trades, A and B Book
Maker	Maker option is useful to track down your A book positions sent to that specific Maker. You can select one or multiple Makers from the drop down list, however the list is only available when your copying mode is A book, as it defines you want to cover only A book position into the slave account and track your A book exposure.
Stl Mode	Defines how trades are covered The configuration only works when using an **MT4** platform. • FIFO: Covered trades are netted out on a First In First Out basis in the coverage account where a trade of opposite direction would offset the first trade that came in. In the FIFO mode, the coverage account cannot have two trades of opposite sides for the same Symbol simultaneously. • Hedge: The coverage account allows hedging where we can have trades of different directions. By using this mode, there will be no offsetting or trade closing.
Priority	This parameter applies in the event of having overlapping configurations where a Give-up Rule with a **higher priority** supersedes other overlapping Rules with lower priorities. You may refer to the examples below in the case studies to understand how priority works

Symbol Format	Specifies in what Symbol format the trade will be covered in the coverage account. You may choose one of the two available formats below and even add a string or suffix that will be added to the end of the Symbol. • #ts#: Taker Symbols are used when the Master and the Slave account both the accounts have access to the **same set of symbols** on the Trading platform i.e. MT4/MT5. Example: Master is placing a trade with EURUSD@ the same EURUSD@ is available on the Slave account on the MT4/MT5. • #us#: Universal Symbols are used when the Master and the Slave account both the accounts have access to a **different set of symbols** on the Trading platform i.e. MT4/MT5. Example: Master is placing a trade with EURUSD@ but this symbol is not available for the slave account on the Trading platform i.e. MT4/MT5 in this case you will proceed to do the below configuration: **Note**: It is important to ensure that the Target Login has access to the specified Taker Format in the MT4/MT5 Server. Otherwise, trade will not be booked
Description	It can be used as a free text for reference or use the following macros for additional customizations: • **#mm#:** Adds MT4 Group Markups to the price • **#vvs#:** Used for % ratio and validates the AMin and AStep parameters on the source TEM prior to booking the Give-up trade. If volume is less than Amin, the trade would not be booked. If Volume is not a multiple of AStep, only the multiple AStep volume would be booked, the remaining would be discarded. • **#vv#:** Used for % ratio and validates the Min Volume parameter on the source TEM prior to booking the Give-up trade. If volume is less than Min Volume, the trade would not be booked. • **#vsym#**: Books non confirmed trades that could result due to error in Symbol configuration • **#extm#**: Added source external markup (MT4/MT5 Group Markup) to target Give-up Order
Enable	Indicates whether the Give-up Rule is enabled or disabled • If ticked, the Give-up Rule is enabled upon creation • If unticked, the Give-up Rule is disabled upon creation

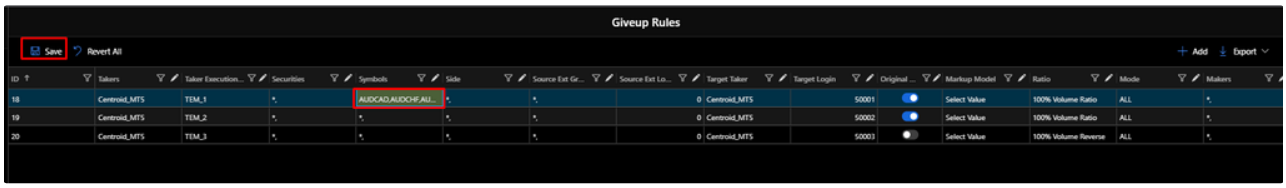
Configuring a Giveup Rule

To Configure/Modify a newly added/existing Giveup Rule

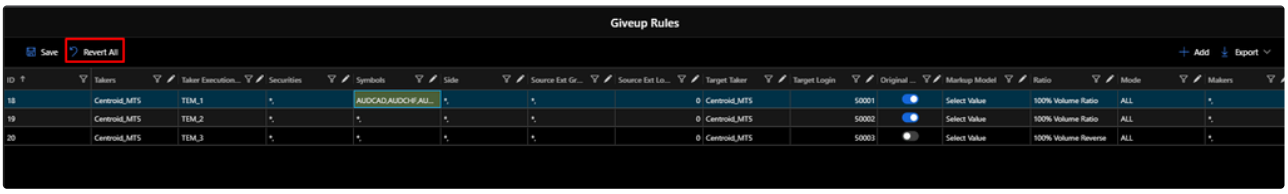
1. To edit a desired parameter, simply double-click on it. Parameters are modified based on the column, with options for entering values manually or selecting from a dropdown list. For parameters involving multiple values or custom patterns, a pop-up window will appear, allowing you to edit the value(s) and click "Submit," as illustrated below.



2. After editing the desired fields (which are highlighted), click the "Save" button to implement and deploy the changes.



3. The user also has the option to click on the "Revert All" button to return to the previous values of the selected parameters.



MetaTrader 5 (MT5) Giveup Rule Configuration

Note: While setting up the Give-up Rule, please read the MT5 Gateway Manual to configure the settings on the MT5 Level, if this configuration is not done/completed on MT5, the trades won't be copied from Master to the Slave Account.

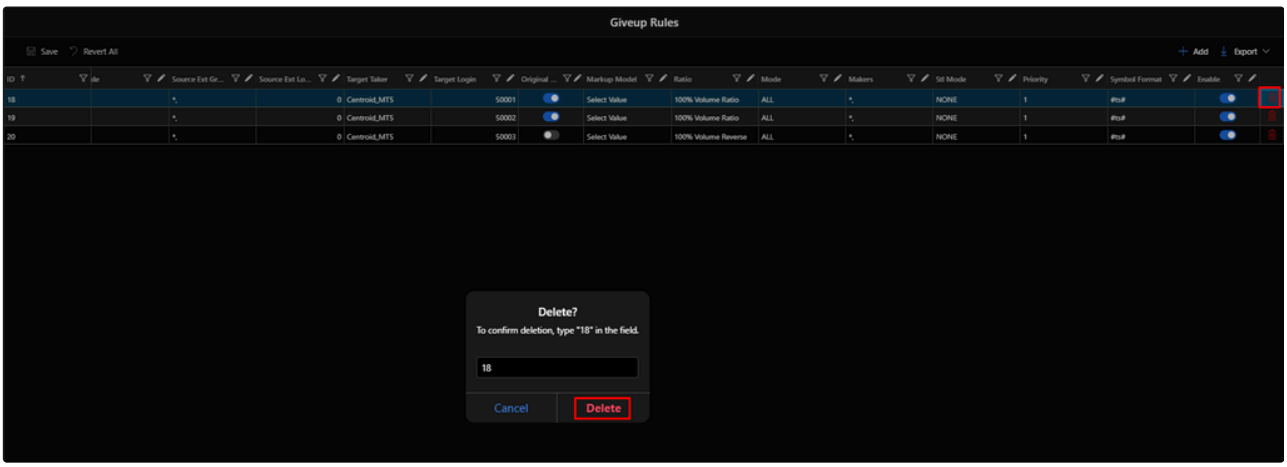
Delete a Give-up Rule

To delete a Giveup Rule

1. Click the **"Delete"** icon next to the desired Give-up Rule

2. To confirm the Deletion, type in the specified text.

3. Click the **"Delete"** button in the pop-up window to confirm the deletion



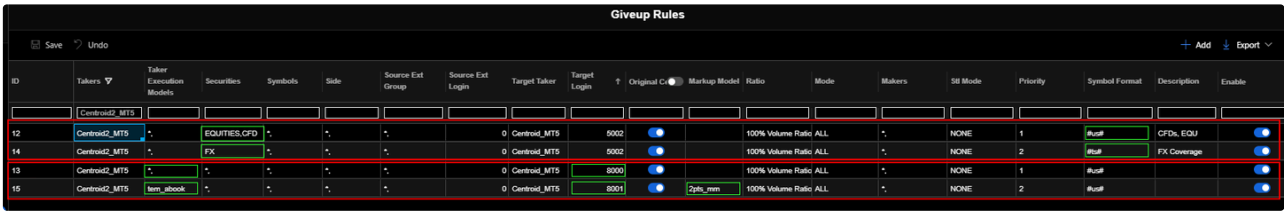
Exporting a Giveup Rule

To Export a Giveup Rule

1. Filter the desired ID from the list to be able to export a specific Giveup Rule
2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**"

Case Studies

In the below example, you can see four different Give-up Rules, some of which are overlapping rules with different configurations. For the sake of clarity, we have categorized the four rules into two sets in which we have used the priority to differentiate, as explained hereafter.



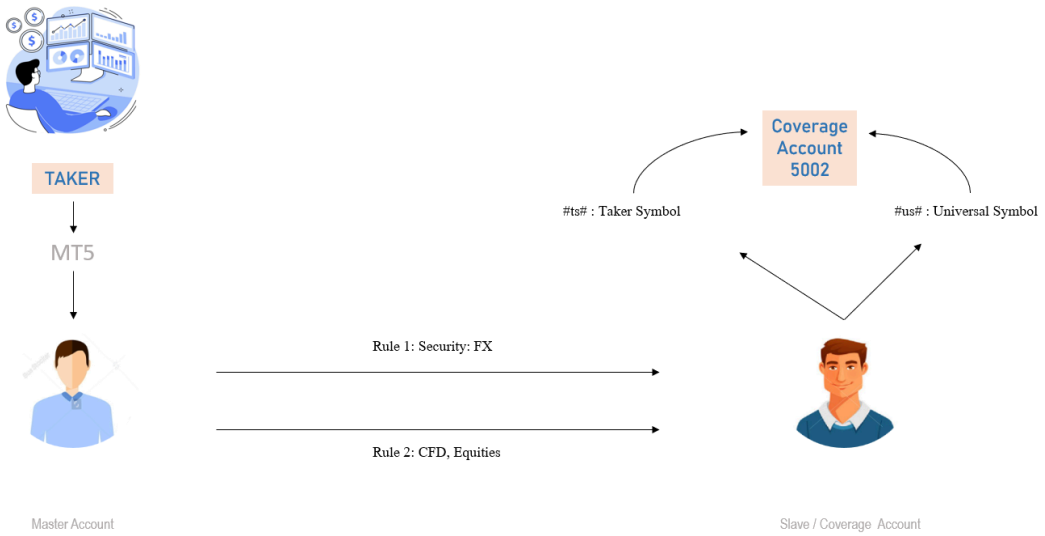
Giveup Rules

Save Undo Add Export

ID	Takers	Taker Execution Models	Securities	Symbols	Side	Source Ext Group	Source Ext Login	Target Taker	Target Login	Original Co	Markup Model	Ratio	Mode	Makers	Sti Mode	Priority	Symbol Format	Description	Enable
	Centroid2_MT5																		
12	Centroid2_MT5	*,	EQUITIES,CFD	*,	*,	*,	0	Centroid_MT5	5002			100% Volume Ratio	ALL	*,	NONE	1	#us#	CFDs, EQU	
14	Centroid2_MT5	*,	FX	*,	*,	*,	0	Centroid_MT5	5002			100% Volume Ratio	ALL	*,	NONE	2	#us#	FX Coverage	
13	Centroid2_MT5	*,	*,	*,	*,	*,	0	Centroid_MT5	8000			100% Volume Ratio	ALL	*,	NONE	1	#us#		
15	Centroid2_MT5	tem_abook	*,	*,	*,	*,	0	Centroid_MT5	8001		2pts_mm	100% Volume Ratio	ALL	*,	NONE	2	#us#		

Scenario 1:

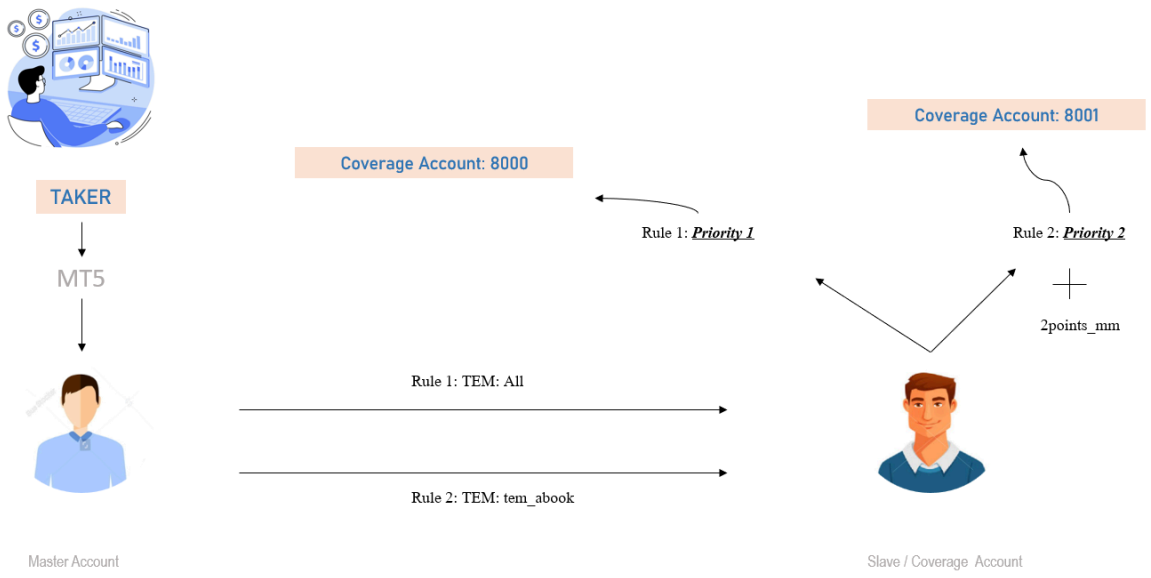
The initial set consists of two rules that overlap, requiring us to assign distinct priorities. Both rules make use of the same Coverage Account, which is 5002, but they implement different coverage rules.
In the first rule, our selection is limited to FX Security, and when it comes to covering trades in the Coverage Account 5002, we employ the Symbol Format #ts# (Taker Symbol).
In contrast, the second rule encompasses the remaining securities, including Equities and CFDs. For covering trades in the Coverage Account 5002, we use the Symbol Format #us# (Symbols).
The assignment of different priorities to each rule allows the Centroid Bridge to differentiate between them when booking trades.
The coverage process is illustrated in the diagram below.



Scenario 2:

The second set includes two rules that also overlap, necessitating the use of distinct priorities. However, in this case, the rules involve different Coverage Accounts, specifically 8000 and 8001. Additionally, the second rule involves the application of additional markups on top of the booking price for the Coverage Account.
In the first rule, our focus is on Centroid2_MT5, exclusively handling all trades associated with that Taker and booking them into Coverage Account 8000.
In the second rule, we override the first rule by selecting a specific Taker Execution Model, tem_abook, within Centroid2_MT5. We direct trades related to the Taker Execution Model tem_abook to a separate Coverage Account, which is 8001. Furthermore, we apply extra markups to the final price, as defined in Markup Model 2pts_mm. To accomplish this, we assign a higher priority level, 2, to differentiate orders originating from the Taker Execution tem_abook.
In summary, the Centroid Bridge scrutinizes all trades originating from Centroid2_MT5. If they are associated with the tem_abook Taker Execution Model, these trades are booked into Coverage Account 8001, with the addition of the markups specified in Markup Model

2pts_mm. If the trades from Centroid2_MT5 are linked to a different Taker Execution Model (other than tem_abook), they are booked into Coverage Account 8000 without any extra markups. The coverage process is visually represented in the diagram below.



FAQ

- Why haven't the trades for the slave account been executed?

  To validate the accuracy of the rule, clients can review the filters applied during its creation. Any potential issues may arise from TEM and External Filters or Master and Target Symbol (suffix), if any. For further assistance, feel free to contact Support via Skype or Slack.

- I cannot see trades on the MT5 account even though they are visible on the bridge for the slave account. What could be causing this discrepancy?

  The issue might be related to missing MT5 settings. Refer to the Gateway Manual for specific guidance on these settings.

- Can I use multiple MT5 accounts as the Source Ext Login for a specific rule?

  You cannot use more than one MT5 account as the Source Ext Login for a specific rule.

- What does a '0' value indicate under Source Ext Login?

  Source Ext Login '0' signifies all accounts

- Can I use multiple MT5 accounts as the Target Account for a specific rule?

  You cannot use more than one MT5 account as the Target login for a specific rule.

Filtration Pool

Overview

The Filtration Pool module is designed to filter out incorrect or suspicious prices that could result from an error on the Maker's side in order to protect Brokers from spiked prices that could lead to a detrimental impact to the clients.

Pools can be constructed of different participants (Makers) whose average prices will be used as a benchmark against which each incoming tick will be compared and filtered, through a filtering mechanism that utilizes different filtration parameters, before the bridge decides whether to allow it in or not.

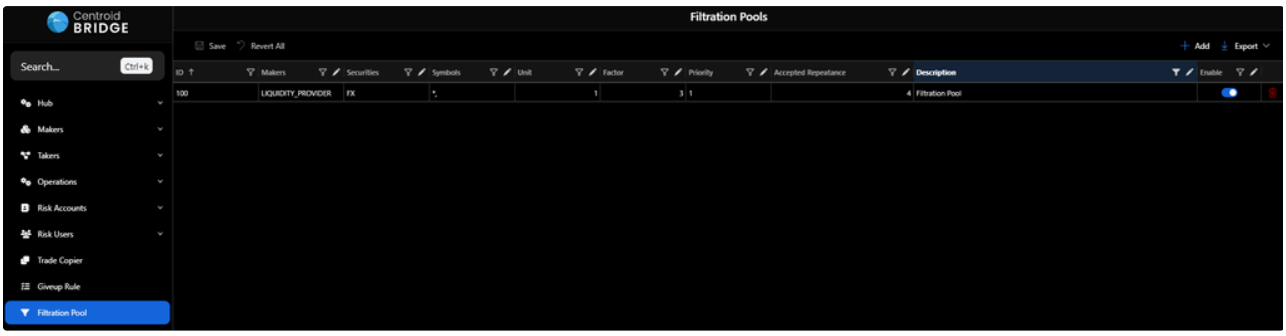
The mechanism used to filter prices uses a recursive methodology whereby each time a Maker's tick price is excluded, the bridge would run the filtration all over again on the remaining Makers for the next tick and keeps doing so if a suspicious price comes in until there are only two Makers left in the Pool.

Different filtration rules can be created with different priorities for different Securities and/or Symbols.

Note: The Filtration Rule functionality runs in the background and can be enabled and disabled at the Level of Liquidity Model on a per Symbol basis based on the value used in the Filter Factor column, which is explained in detail in the Liquidity Model section.

Within this module, you have the capability to:

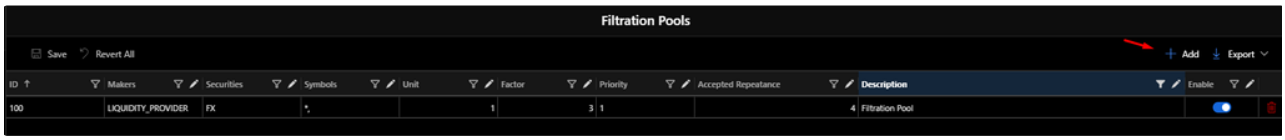
- **Create a new Filtration Pool:** Establish a new Filtration Pool.
- **Filter Filtration Pools:** Categorize Filtration Pools based on different criteria.
- **Enable/Disable a Filtration Pool:** Manage the active status of a Filtration Pool.
- **Edit an Existing Filtration Pool:** Modify an existing Filtration Pool by changing configurable parameters.
- **Delete an Existing Filtration Pool:** Remove a specific Filtration Pool.
- **Export Filtration Pools:** Save the list of Filtration Pools to an Excel/CSV file.



Creating a Filtration Pool

To create a Filtration Pool

1. On the **Filtration Pool** and then click the **"Add"** button.



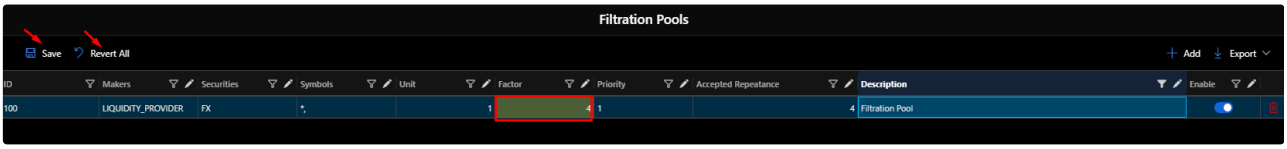
2. Fill out the Wizard. You may refer to the field descriptions below.
3. Click **"Submit"** to submit the changes.

Field	Description
ID	A unique ID number for the configured rule
Makers	One or multiple Maker(s) whose prices will be compared against any incoming tick prior to allowing the tick into the bridge **Note:** "*" implies that all Makers are selected
Securities	One or multiple Security(ies) to which the filtering will apply **Note:** "*" implies that all Securities are selected
Symbols	One or multiple Symbol(s) to which the filtering will apply **Note:** "*" implies that all Symbols are selected
Unit	A Unit is equivalent to 10 points (1 pip for FX), the digit before the last digit of a Symbol. The Unit is used as a measurement to be applied as an accepted tick price variance from the benchmark price of Makers making up the Pool Example: 1 Unit of a 5-digit EURUSD Symbol is equivalent to 10 points or 0.00010 1 Unit of a 2-digit DAX Symbol is equivalent to 10 points or 0.10 3 Units of a 3 digit Gold Symbol is equivalent to 30 points or 0.030
Factor	A multiplier by which you can further increase or decrease the Unit and thus the accepted variance **Note:** This value can be overridden at the level of Liquidity Model
Priority	This parameter applies in the event of overlapping configurations whereby a Filtration Rule with a higher priority supersedes other overlapping Rules with lower priorities. Example: You may have a global filtration rule and you may want to apply the filtration differently to a particular Symbol. In that case, you can have the global rule configured to include all Symbols and set its priority to 1 and then configure another rule in which you select a particular Symbol and set its priority to 2. In that case, whenever a tick for that Symbol comes in, filtration rule 2 will be applied since it has a higher priority
Accepted Repeatance	This is relevant in case the Filtration Pool is made up of one Maker only. It defines how many times a price can be filtered out and discarded in the event of having consecutive suspicious prices coming in. When the number of Accepted Repeatance is exceeded, the bridge would let the suspicious price in. For instance, if the Accepted Repeatance is set to 5, then the bridge would let a suspicious price in after the 5th consecutive tick.
Enable	Indicates whether the Filtration Rule is enabled or disabled • If ticked, the Filtration Rule is enabled • If unticked, the Filtration Rule is disabled, hence no filtration is applied
Description	A short description for reference purposes

Configuring Filtration Pool

To configure a Filtration Pool

1. Select the desired Filtration Pool rule
2. Configure the desired fields
3. Click the **"Save"** button on top to deploy the changes



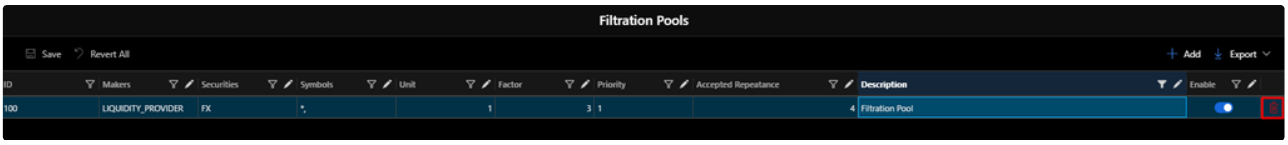
Field	Editable	Possible Values	Description
ID	No	*1,2,3*	A unique ID number for the configured rule
Makers	Yes	*LP1, PB1*	One or multiple Maker(s) whose prices will be compared against any incoming tick prior to allowing the tick into the bridge **Note:** "*" implies that all Makers are selected
Securities	Yes	*FX, CFDs*	One or multiple Security(ies) to which the filtering will apply **Note:** "*" implies that all Securities are selected
Symbols	No	*EURUSD, XAUUSD*	One or multiple Symbol(s) to which the filtering will apply **Note:** "*" implies that all Symbols are selected
Unit	Yes	*1,2,3*	A Unit is equivalent to 10 points (1 pip for FX), the digit before the last digit of a Symbol. The Unit is used as a measurement to be applied as an accepted tick price variance from the benchmark price of Makers making up the Pool Example: 1 Unit of a 5-digit EURUSD Symbol is equivalent to 10 points or 0.00010 1 Unit of a 2-digit DAX Symbol is equivalent to 10 points or 0.10 3 Units of a 3 digit Gold Symbol is equivalent to 30 points or 0.030
Factor	Yes	*1, 10, 25, 100*	A multiplier by which you can further increase or decrease the Unit and thus the accepted variance Note: This value can be overridden at the level of Liquidity Model
Priority	Yes	*1,2,3*	This parameter applies in the event of overlapping configurations whereby a Filtration Rule with a higher priority supersedes other overlapping Rules with lower priorities. Example: You may have a global filtration rule and you may want to apply the filtration differently to a particular Symbol. In that case, you can have the global rule configured to include all Symbols and set its priority to 1 and then configure another rule in which you select a particular Symbol and set its priority to 2. In that case, whenever a tick for that Symbol comes in, filtration rule 2 will be applied since it has a higher priority
Accepted Repeatance	Yes	*1,2,3*	This is relevant in case the Filtration Pool is made up of one Maker only. It defines how many times a price can be filtered out and discarded in the event of having consecutive suspicious prices coming in. When the number of Accepted Repeatance is exceeded, the bridge would let the suspicious price in. For instance, if the Accepted Repeatance is set to 5, then the bridge would let a suspicious price in after the 5th consecutive tick.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Filtration Rule is enabled or disabled

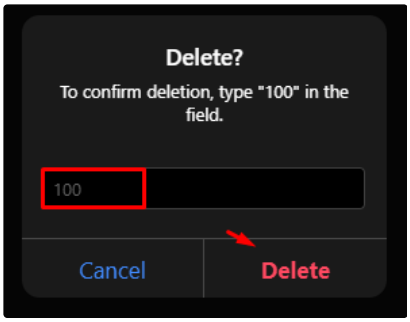
			• If ticked, the Filtration Rule is enabled • If unticked, the Filtration Rule is disabled, hence no filtration is applied
Description	Yes		A short description for reference purposes

Deleting Filtration Pool

To delete a Filtration Pool

1. Click the **"Delete"** button next to the desired Filtration Pool rule.
2. To confirm the Deletion, type in the specified text.
3. Click the **"Delete"** button in the pop-up window to confirm the deletion.





Exporting a Filtration Pool

To Export a Filtration Pool

1. Select the desired Filtration Pool from the list.
2. Tick the checkbox to select a Filtration Pool.
3. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**".

Filtration Logs

[2023-08-10 16:26:59.202337] [W] [17464] fp:[10], symbol[EURUSD], invalid mid_price:[1.10113], factor[1], unit[0.1], pools[1], fdev[0.00001], var[0.00006], dg[5], bmp[1.10119]
[2023-08-10 16:26:59.202519] [I] [17464] fp:[10], symbol[EURUSD], invalid[ABC_DEMO][1.10113], count[5], unit[0.1], factor[1], bmp[1.10119]
[2023-08-10 16:26:59.203107] [W] [17375] fp:[10], symbol[EURUSD], invalid mid_price:[1.10112], factor[1], unit[0.1], pools[1], fdev[0.00001], var[0.00007], dg[5], bmp[1.10119]
[2023-08-10 16:26:59.206279] [W] [17375] agg_symbol[SUPPORT_LM@EURUSD], maker[ABC_DEMO], filtered-out[1.10109]/[1.10116]
[2023-08-10 16:26:59.250809] [W] [17464] fp:[10], symbol[EURUSD], invalid mid_price:[1.10114], factor[1], unit[0.1], pools[1], fdev[0.00001], var[0.00005], dg[5], bmp[1.10119]
[2023-08-10 16:26:59.250856] [I] [17464] fp:[10], symbol[EURUSD], validated[ABC_DEMO][1.10114], after[5], unit[0.1], factor[1],

bmp[1.10119]
[2023-08-10 16:26:59.315453] [W] [17464] fp:[10], symbol[EURUSD], invalid mid_price:[1.1011], factor[1], unit[0.1], pools[1], fdev[0.00001], var[0.00001], dg[5], bmp[1.10112]
[2023-08-10 16:26:59.315714] [I] [17464] fp:[10], symbol[EURUSD], invalid[ABC_DEMO[1.1011], count[1], unit[0.1], factor[1], bmp[1.10112]

Field	Explanation
fp	Filtration Pool Rule ID
symbol	Symbol
invalid mid_price	New mid price that has been invalidated
factor	Factor value in the Filtration Pool or Liquidity model filter factor
unit	Unit value in the Filtration Pool
pools	Number of active makers pricing in the Filtration Rule
fdev	Allowed Factor Deviation which will be the allowed difference of the new mid price and the current midprice[bmp] **Formula:** Unit x Factor (Rule or Liquidity Model)
var	Variance or the difference between the new mid price and the current midprice[bmp] **Formula:** BMP - Invalid mid_price
dg	Digits of the symbol
bmp	Benchmark price or the current midpoint
invalid	Invalidated price from which maker
count	Count of invalidated price
after	After accepted repeatance
agg_symbol	Name of the liquidity model and the symbol
filtered-out	Filtered price

Action Scheduler

Overview

This feature enables brokers to modify their default settings at the bridge level for a specific Time-Frame. It applies exclusively to the following settings:

1. Markup Model
2. Liquidity Model
3. Taker Feeds
4. Taker Execution Model

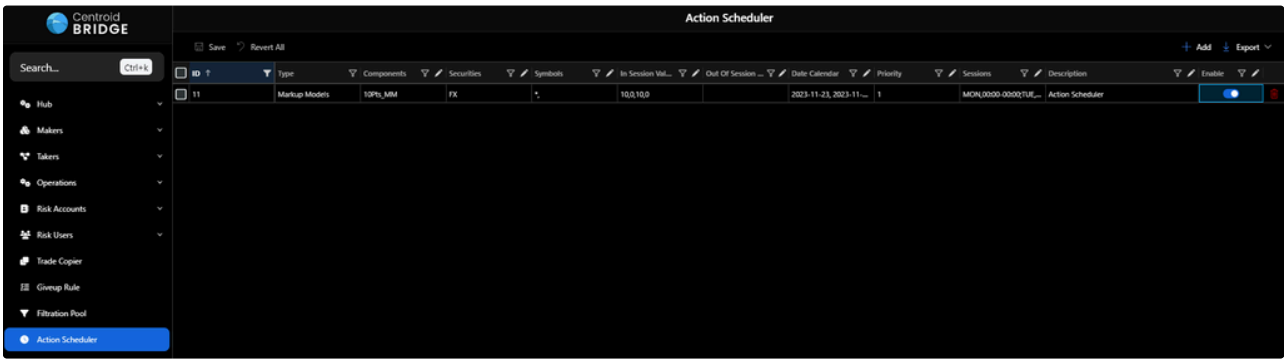
The default filters for all these components include:

The option to select specific Symbols and Securities.

In-session values: These reflect the adjustments you wish to make to the default values for the specified time frame. These changes are effective during the in-session period and revert to the default settings once the specified time frame has concluded.

Out-of-session values: These changes become effective after the specified in-session time frame has concluded. For instance:

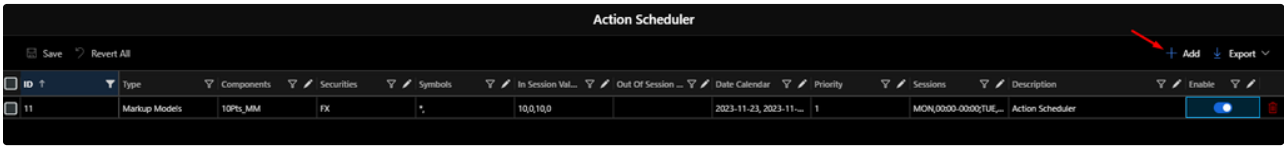
If you start with the default setup, the in-session values will become active for the specified time frame.
When you mark a checkbox, you are indicating that you want to update your default values to new values. The out-of-session values will then become the new default values for that particular component.
Sessions allow you to define the specific time frame during which the changes should take effect and transition the values from default to in-session values.



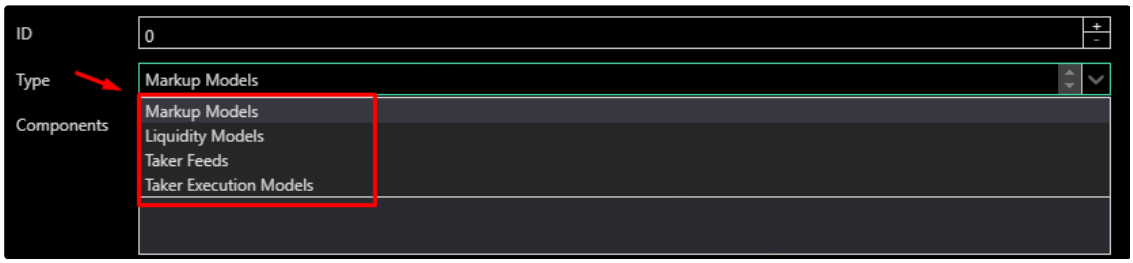
Creating a new Action Scheduler Rule

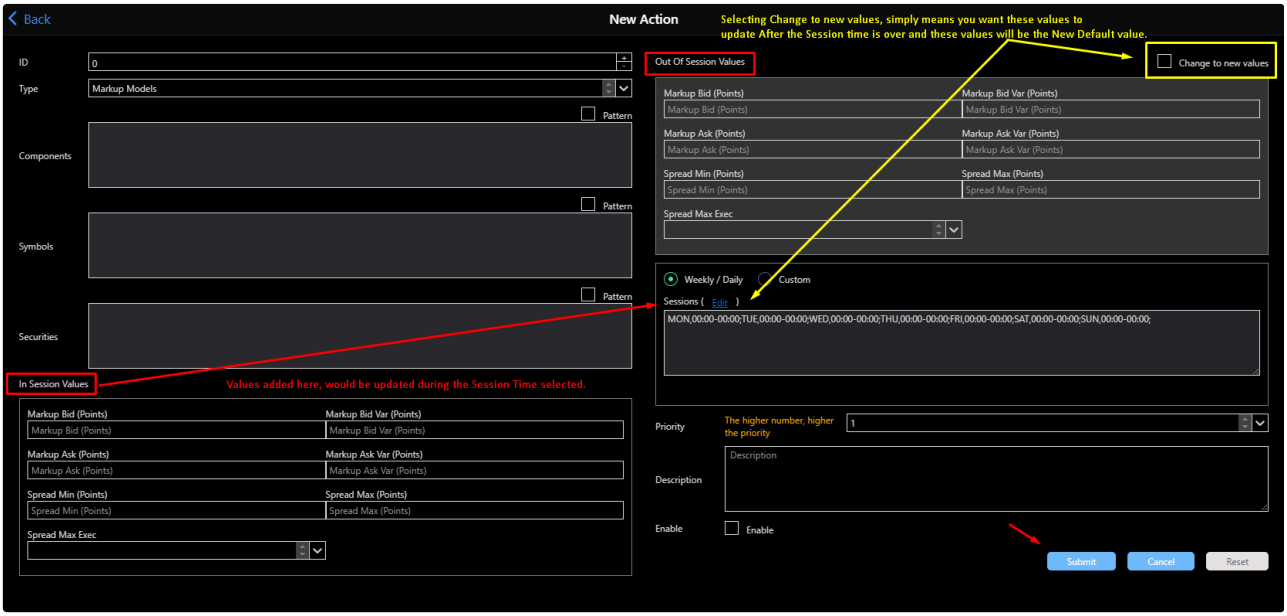
To create a Action Scheduler Rule

1. Click on **"Action Scheduler"**
2. Click on the **"Add"** button to create a new Action Scheduler Rule.



3. Fill out the Wizard. You may refer to the field descriptions listed below
4. Click **"Submit"** to submit the changes.





Field	Description
ID	A unique ID number for the configured rule
Type	Available types are the following: • Markup Models • Liquidity Models • Taker Feeds • Taker Execution Model
Components	This value depends on the selected Type
Securities	The name of the Security to be filtered and used.
Symbols	The name of the Symbol to be filtered and used.
In Session Values	All configured values under the components will reflect in this field
Out of Session Values	Configurable as new values in case the broker intended to not revert back to original values after the In Session expires
Date Calendar	Specific date in the calendar where Action Scheduler will be activated
Priority	This parameter applies in the event of overlapping rules where an Action Scheduler Rule with a higher priority supersedes other overlapping Rules with lower priorities.
Sessions	Defines the time when the rule is Active and In Session
Description	A short description for reference purposes

Enabled	Indicates whether the Action Scheduler Rule is enabled or disabled • If ticked, the Action Scheduler Rule is active and will be activated during the configured Sessions • If unticked, the Action Scheduler Rule is disabled, hence will not activate

In-Depth Explanation of the Components Listed Above:

Markup Model	
Field	**Description**
Markup Bid [Points]	Adjust bid markup for a specified time frame.
Markup Ask [Points]	Adjust ask markup for a specified time frame.
Markup Bid Var [Points]	Adjust bid markup variation for a specified time frame.
Markup Ask Var [Points]	Adjust ask markup variation for a specified time frame.
Spread Min [Points]	Set the minimum spread for a specified time frame.
Spread Max [Points]	Set the maximum spread for a specified time frame.
Spread Min Exec	Set the minimum executable spread for a specified time frame.
Spread Max Exec	Set the maximum executable spread for a specified time frame.

Liquidity Models	
Field	**Description**
Maker/Makers	Configure liquidity maker settings.
Execution Mode (Exec Mode)	Define the execution mode for liquidity.
Filter Factor	Specify a filter factor for liquidity.

Taker Feed	
Field	**Description**
Liquidity Model	Configure the liquidity model for taker feeds.
Markup Model	Configure the markup model for taker feeds.

Taker Execution Model	
Field	**Description**

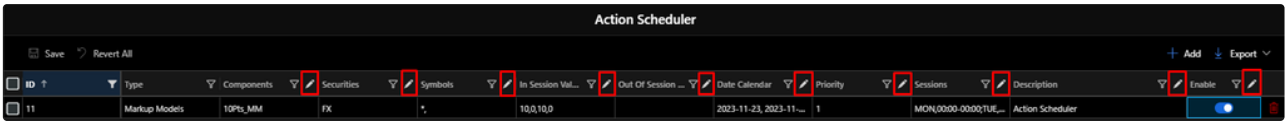
Liquidity Model	Specify the liquidity model for taker execution.
Markup Model	Specify the markup model for taker execution.
B Book Percentage %	Set the percentage for B Book execution.
BFix	Configure BFix settings.
BBoost	Set BBoost parameters.
BDelay Range [From ms to To ms]	Define a delay range for B Book execution.
Gain Percentage [0-100]	Adjust gain percentage for execution.
LL Variation	Set parameters for LL variation.
LL Action	Define LL action parameters.

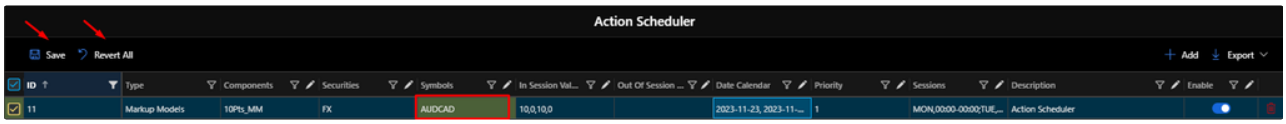
Notes: In-session values are applicable only for the specified time frame. Whether the settings return to default or switch to new default values depends on the configuration of the Out-of-session values.

Configuring Action Scheduler

To Configure/Modify a newly added/existing Action Scheduler

1. Click the little arrow next to the Symbol column to have it sorted in alphabetical order.
2. Configure the Action Scheduler by editing the editable fields. All edited fields are represented by a pen icon
3. Click the **"Save"** button on top to apply the changes
4. Click on the **"Revert All"** button if you want to revert to the previous values

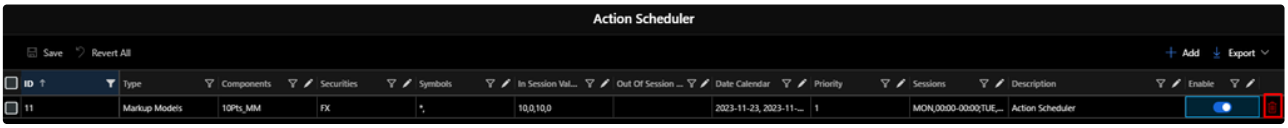


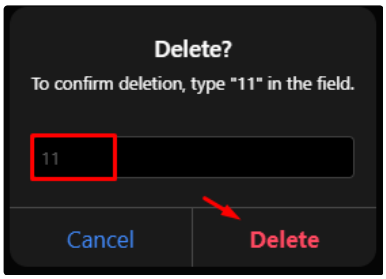


Delete an Action Scheduler

To delete an Action Scheduler rule

1. Click the **"Delete"** icon next to the desired Action Scheduler rule
2. Confirm the **"Delete"** button in the pop-up window to confirm the deletion

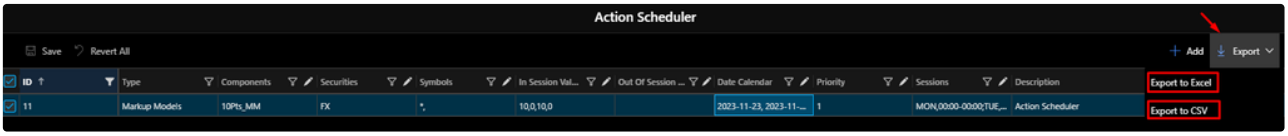




Exporting an Action Scheduler

To export an Action Scheduler

1. Select the desired Action Scheduler from the list
2. Tick the checkbox to select an Action Scheduler
3. Click **"Export"** → Export to Excel / Export to CSV



FAQ

Why is the Action Scheduler not activating for the particular rule?

The Action Scheduler takes about 60 seconds to activate after the In Session Time and an additional 60 seconds to revert to default values (as per your rule) after the Out Session Time.

How can I set up an Action Scheduler Rule to apply daily? What about on a specific date?

Yes, both scenarios are possible with the right session-level setup. Just choose your preferred option and make sure to set the session in and out accordingly.

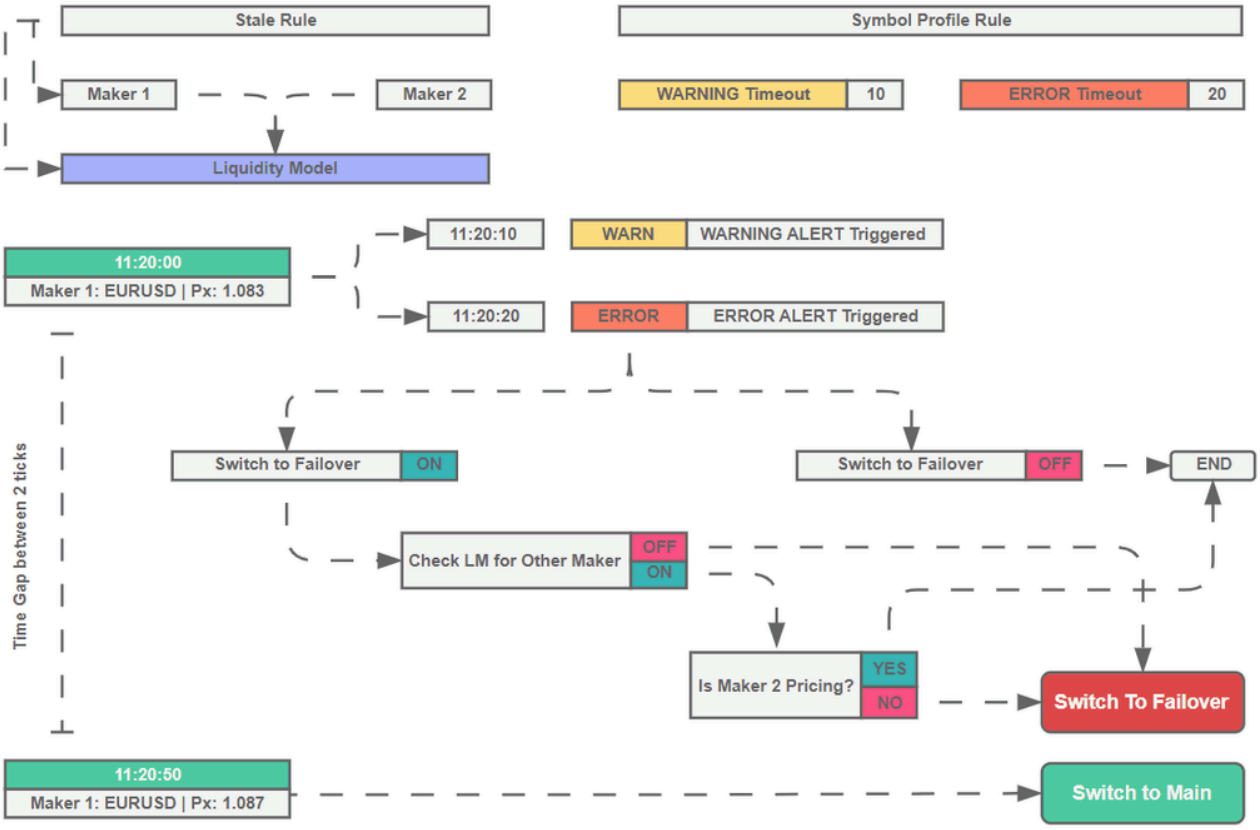
Stale Prices

Overview

Failover Makers is used to seamlessly and automatically switch to another stream of prices when the primary stream of prices fails due to various reasons. This can also help to redirect trades in case of primary makers unavailability. This can be achieved through the use of the “Stale Prices” module.

In its operations, the system captures the time of a symbol’s latest tick from a Maker and starts counting based on Warning and Error Timeout, the following logic will be followed:

- If **no** new quote has been received and the time **exceeds the Warning Timeout**, A Warning Alert will be triggered and sent by the bridge.
- If **no** new quote has been received and the time **exceeds the Error Timeout**, one of the following will happen:
  - If **Switch to Failover** is **disabled**, An Error Alert will be triggered.
  - If **Switch to Failover** is **enabled**, An Error Alert will be triggered, and one of the following can happen:
    - If **Check LM** is **disabled**, the system will immediately switch to Failover Maker and it will ignore the other makers available in the Liquidity model.
    - If **Check LM** is **enabled**, the system will check first the other Makers in the Liquidity Model and one of the following can happen:
      - If the **other Makers in the Liquidity Model** are **not streaming**, the system will switch to Failover Maker.
      - If the **other Makers in the Liquidity Model** are **streaming**, the system will not switch to Failover Maker.



Setting up an Auto-failover

To setup an Auto-Failover we need to

1. Create a **Symbol Profile** → Refer to the Symbol Profile component for comprehensive documentation.
2. Create a **Stale Rule** → Refer to the Stale Rule component for comprehensive documentation.
3. Add a **Failover Maker** to the Liquidity Model → Refer to the Liquidity Model for comprehensive documentation.

Symbols Profile

Overview

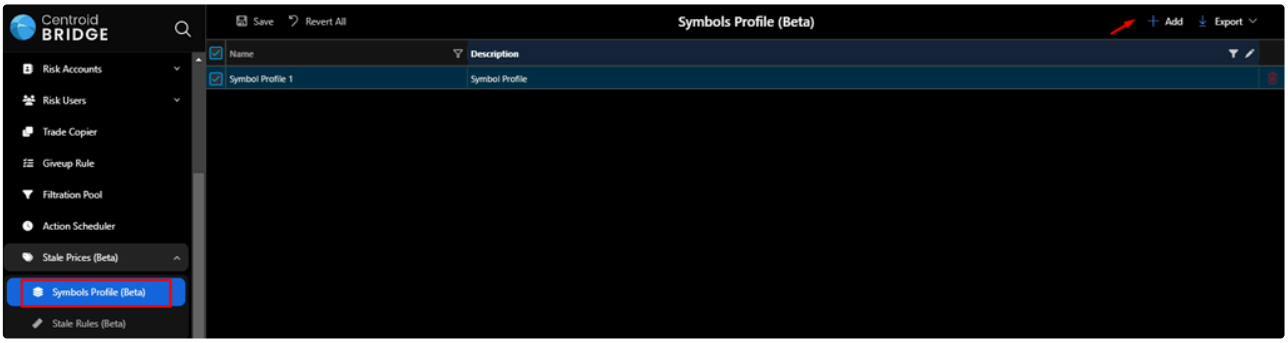
The Symbols Profile plays a crucial role in the Maker Failover Mechanism. Here, you can set up the symbol's preferences, guiding the system in recognizing when a symbol's price becomes outdated or stale. These preferences are unique for each symbol. There are two timeout levels: a warning threshold and an error threshold. If either is reached, an alert is generated and recorded in the logs. Beyond timeouts and alerts, you can also configure the system to automatically switch if a particular symbol is identified as not pricing.

Creating a Symbol Profile

To create a Symbol Profile

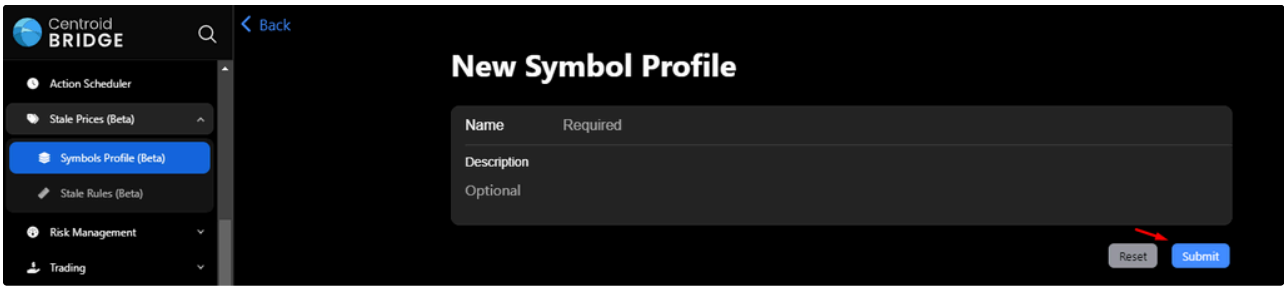
1. Click the "**Symbol Profile**" component.

2. Click the "**Add**" button to create a new Symbol Profile.



3. Fill out the **wizard** with all relevant information. You may refer to the field descriptions hereafter.

4. Click the "**Submit"** button to submit the changes.



Field	Possible Values	Description
Name	*StaleProfile1*	This is intended to recognize the Symbol Profile and determine the particular Maker being utilized in this Symbol Profile.
Description		A short description for reference purposes only.

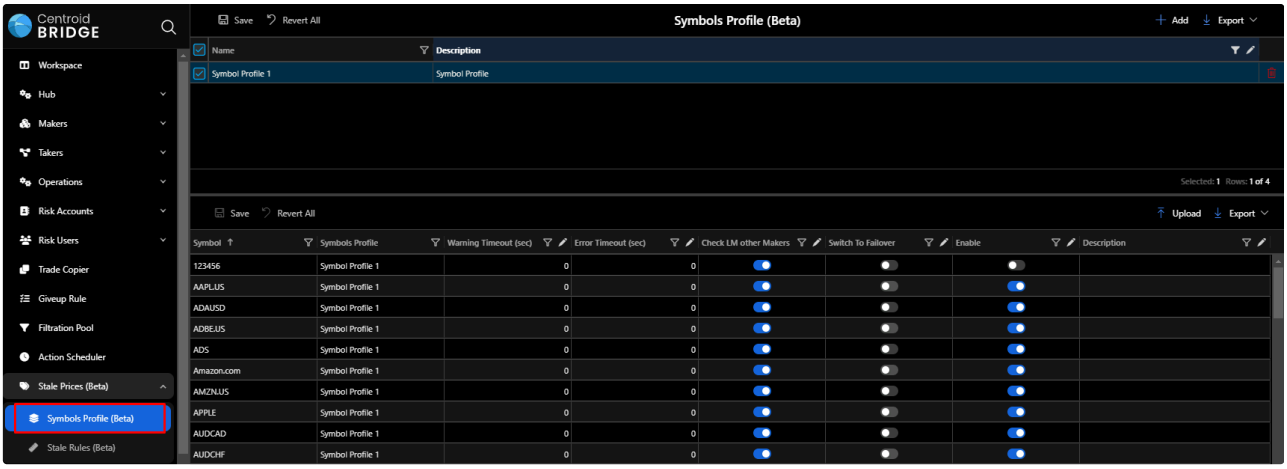
Configuring Symbol Profile

To configure or modify a newly added Symbol Profile on a per symbol basis

1. Configure the Symbol Profile by modifying the editable fields. All editable fields are represented by a **“Pen”** icon.

2. Click the **“Save”** button on the top left to apply the changes.

3. Click the **“Revert All”** button if you want to revert to the previous values.

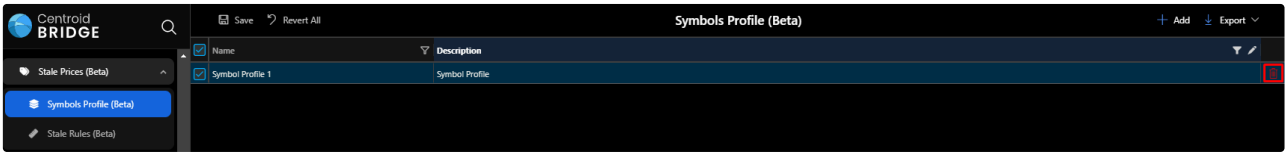


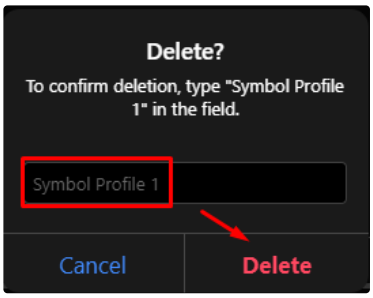
Field	Possible Values	Description
Symbol	*EURUSD, XAUUSD*	The Symbol to be tracked and to be applied with succeeding settings.
Symbols Profile	*StaleProfile1*	Different Symbols Profiles can have distinct timeout setups, linked within the Stale Rules.
Warning Timeout (sec)	*5,10*	Initial threshold tracking the time elapsed in seconds since the last update before issuing warning alerts.
Error Timeout (sec)	*10,15*	Final threshold tracking the time elapsed in seconds since the last update before issuing alerts and initiating failover mechanism.
Check LM other makers	*Enabled, Disabled*	During aggregation, this verifies other available makers in the Liquidity model before initiating failover. If other makers in the same liquidity model are pricing, Switch To Failover is ignored.
Switch To Failover	*Enabled, Disabled*	Determines if the liquidity model(s) will shift from Primary to Failover. This collaborates with Check LM other makers, enabled symbol profile, and an active stale rule.
Enable	*Enabled, Disabled*	Indicates whether the symbol profile is enabled or disabled.

Deleting Symbol Profile

To delete a Symbol Profile

1. Click the **“Delete”** button next to the desired Symbol Profile.
2. To confirm the Deletion, type in the specified text.
3. Click the **“Delete”** button in the pop-up window to confirm the deletion.



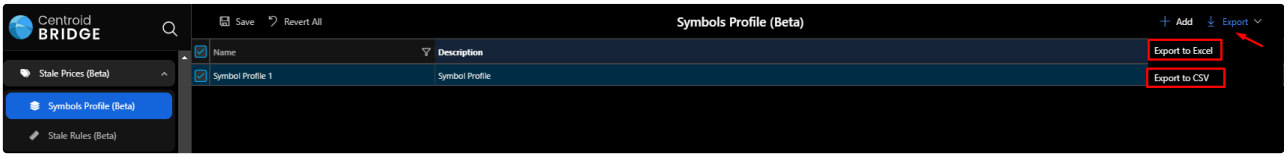


Exporting a Symbol Profile

To Export a Symbol Profile

1. Select the desired Symbol Profile from the list.

2. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”.



Stale Rules

Overview

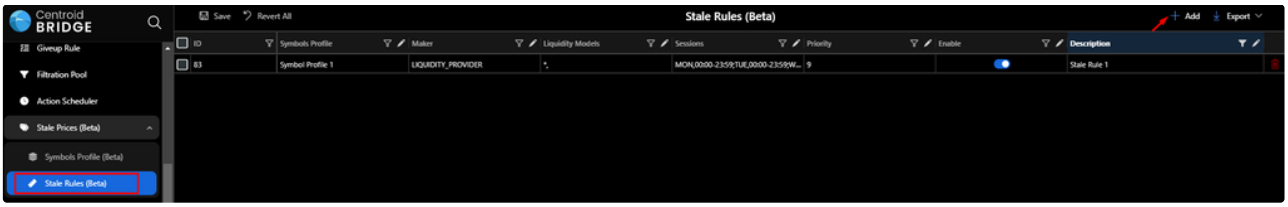
Stale rules are a crucial aspect of the Maker Failover Mechanism. They aid in determining the maker to monitor based on symbol profile settings and specify the Liquidity Models for which the "Switch To Failover" is applicable when activated. Additionally, they allow users to apply rules during specific sessions, enabling them to skip checks or failovers during anticipated periods when no prices are expected.

Creating a Stale Rule

To create a Stale Rule

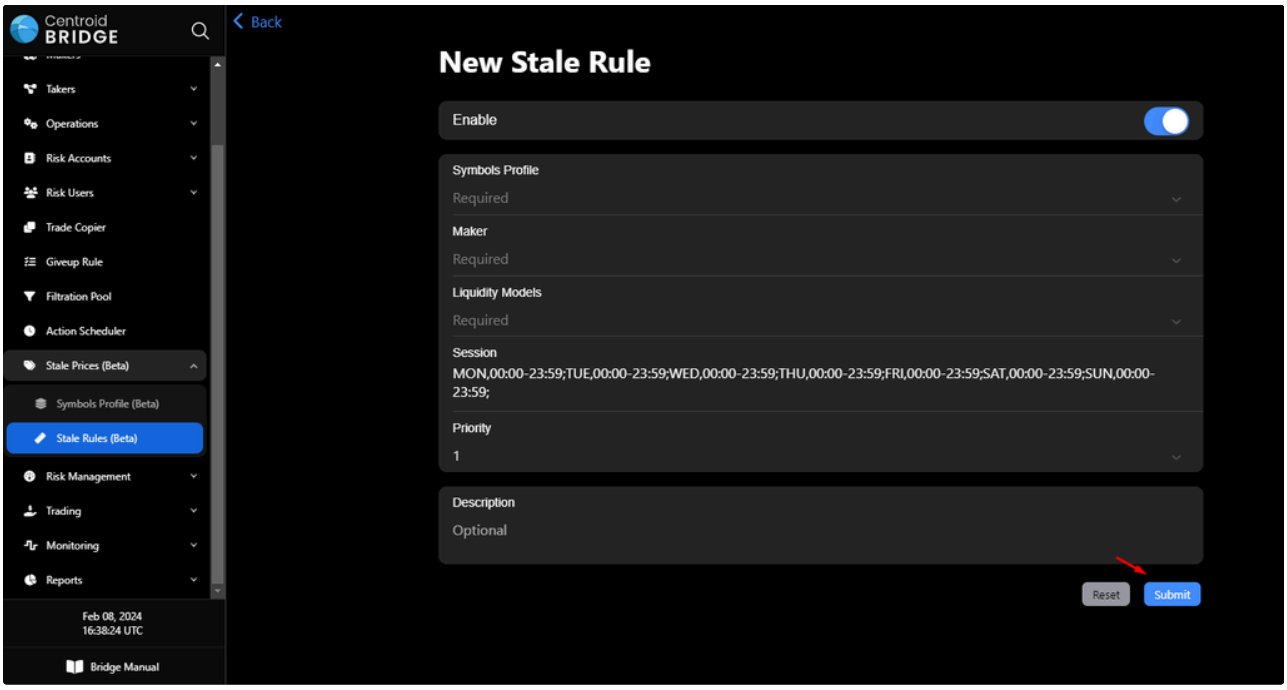
1. Click the "**Stale Rules**" component.

2. Click the "**Add**" button to create a new Liquidity Model.



3. Fill out the **wizard** with all relevant information. You may refer to the field descriptions hereafter.

4. Click the "**Submit"** button to submit the changes.



Field	Possible Values	Description
Enable	*Enabled, Disabled*	Indicates whether the stale rule is enabled or disabled

Maker	*Maker_1*	The Maker into which the Stale Prices checkers will be applied on.
Symbol Profile	*StaleProfile1*	The Symbol Profile into which the Stale Prices will base its settings on.
Liquidity Models	*LM_1, AGG_Makers*	The Liquidity Model to be monitored by the Stale Rule.
Session	*MON,00:00-23:59*	Defines the time of the day during which the Stale Prices will be checked on. All days of the week should be included and separated by a semicolon "**;**" along with the time interval during the day. 00:00-00:00 represents a closure during a particular day.
Priority	1-10	This parameter applies in the event of overlapping configurations where a **Stale Rule** with a higher priority supersedes other overlapping Rules with lower priorities.
Description		A short description for reference purposes

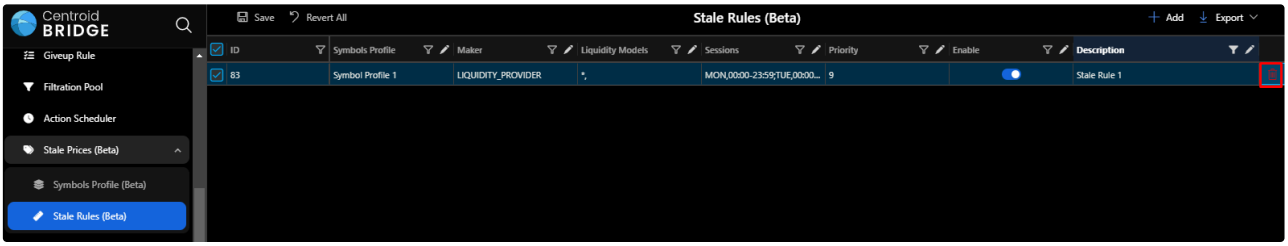
Deleting Stale Rule

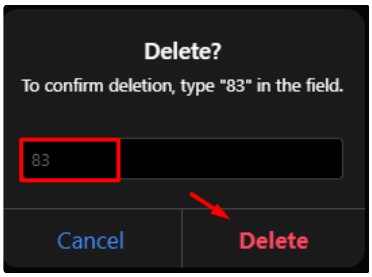
To delete a Stale Rule

1. Click the **"Delete"** button next to the desired Stale Rule.

2. To confirm the Deletion, type in the specified text.

3. Click the **"Delete"** button in the pop-up window to confirm the deletion.



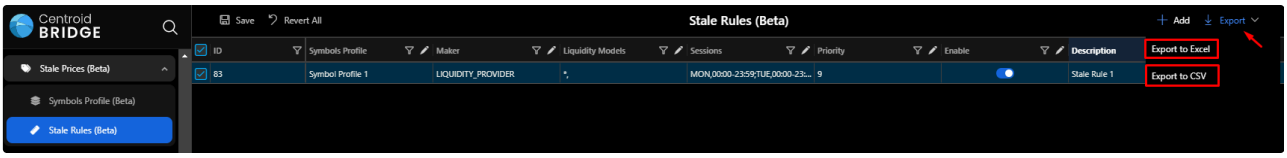


Exporting a Stale Rule

To Export a Stale Rule

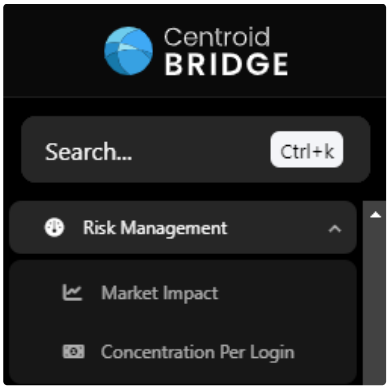
1. Select the desired **Stale Rule** from the list.

2. Click "**Export"** and select "**Export to Excel**" or "**Export to CSV**".



Risk Management

The Risk Management Module allows to create and configure Market Impact and Concentration Per Login. Upon clicking the “Risk Management” button on the left-hand side menu, it expands to show the different components underneath which are explained in greater detail hereunder.



Concentration Per Login

Overview

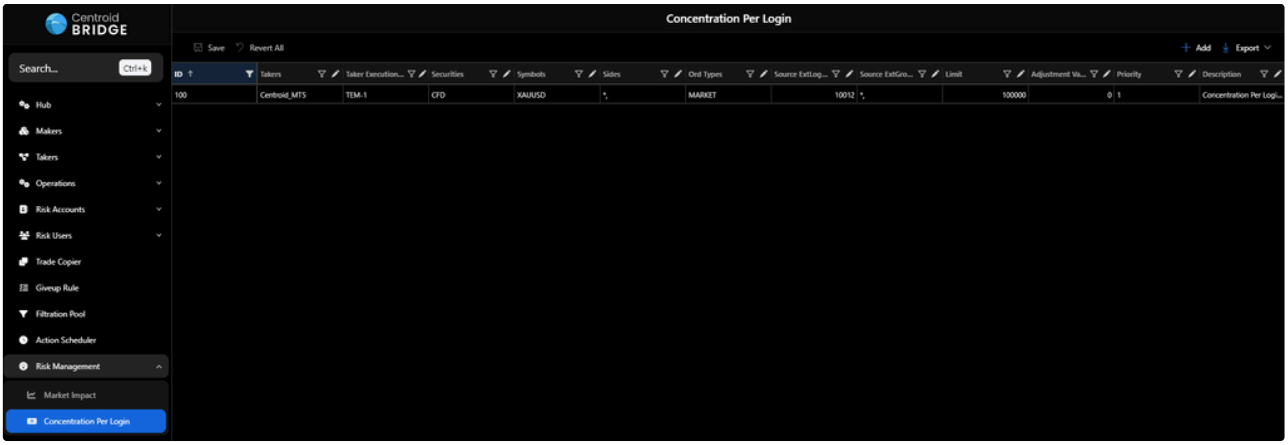
Concentration Per Login facilitates exposure management, this feature allows the brokers to customize exposure settings for every MT4/MT5 login at the symbol level. It also assists in crucial decision-making, by offering the option to Manage or Limit the allowed exposure in terms of traded volume.

Note: Concentration per login works only with BBook Trades.

Manage (By Default): When referring to ‘Manage,' it entails that if the MT4/MT5 Login surpasses the exposure set at the symbol level, all incoming trades for that symbol should be redirected to the Maker.
Limit (Macro Rule): When referring to 'Limit,' it means that if the MT4/MT5 Login surpasses the exposure set at the symbol level, all incoming trades for that symbol should be automatically 'Rejected’.
- **Macro Rule** → #reject#

Within this module, you have the capability to:

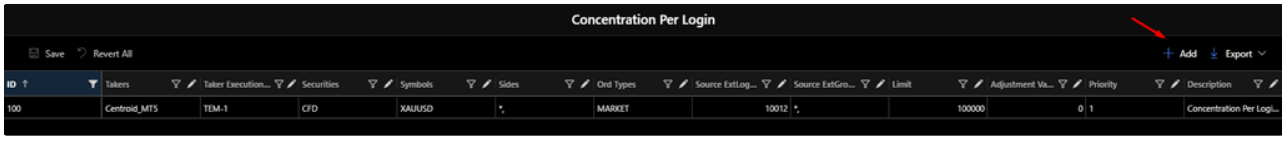
- **Add a New Concentration Per Login Rule:** Create and implement a new rule for the Concentration Per Login functionality.
- **Filter Concentration Per Login Rules by Different Criteria:** Utilize filters to sort and view Concentration Per Login rules based on specified criteria.
- **Enable/Disable a Particular Concentration Per Login Rule:** Toggle the active status of a specific Concentration Per Login rule on or off.
- **Configure a Particular Concentration Per Login Rule:** Modify and tailor the settings of a particular Concentration Per Login rule by editing configurable parameters.
- **Delete a Concentration Per Login Rule:** Remove a Concentration Per Login rule that is no longer needed.
- **Export the List of Concentration Per Login Rules to an Excel File / CSV File:** Generate a downloadable file (Excel or CSV) containing the comprehensive list of Concentration Per Login Rules for external reference or documentation purposes.



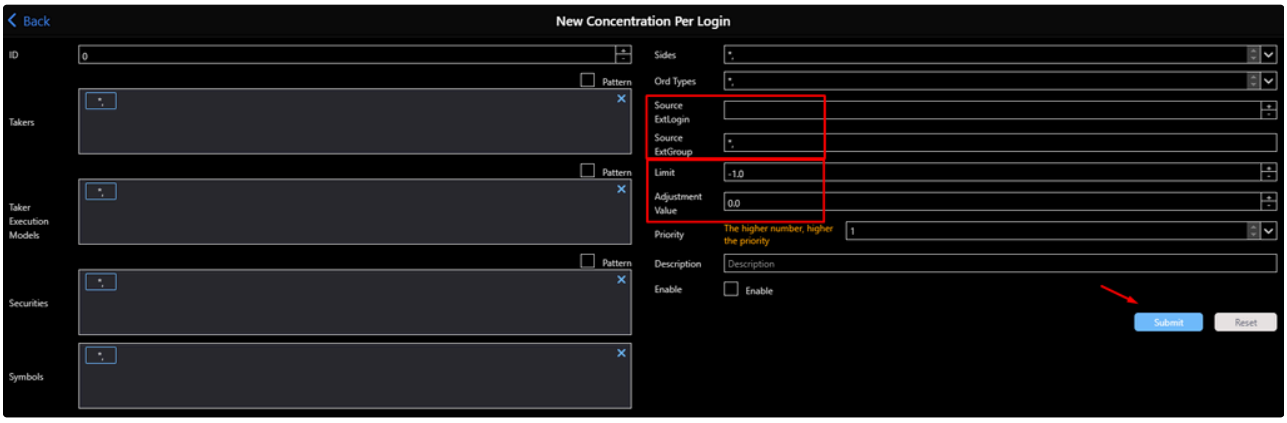
Creating a Concentration Per Login

To create a Concentration Per Login

1. Locate **Concentration Per Login** and then click the **“Add”** button



2. Fill out the Wizard. You may refer to the field descriptions below
3. Click **“Submit”** to submit the changes



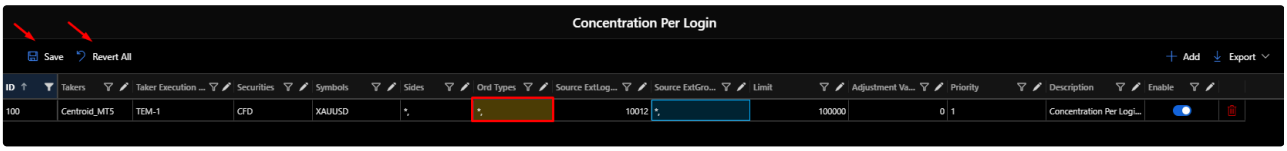
Field	Description
ID	A unique ID number for the configured rule
Taker	The source Taker(s) You may select one or multiple Takers from the list or type a pattern manually by ticking the Pattern tick-box **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
TEM	Trades executed with this source TEM will adhere to the exposure rule, additionally following Source Login and Group Filter criteria.
Securities	Specifying a security here indicates that only the symbols falling under this security are eligible to adhere to the concentration per login rule, either by managing or limiting the exposure.
Symbols	The exposure limit will be exclusively applied to the symbols specified here. If no symbols are selected, it implies that all symbols within the chosen security will adhere to the exposure rule.
Sides	Default Value: * [meaning all] However, broker can further change the settings to either Buy or Sell trades.
Ord Types	The additional filter for order types enables you to specify whether you want the exposure rule applied to market orders, limit orders, stop orders, or all (*).
Source ExtLogin	This parameter allows you to enter a specific MT4/MT5 Login number. **Note:** You can add only one account at a time. **Note:** Entering '0' means that all accounts will adhere to this exposure rule.
Source ExtGroup	This parameter enables you to enter a specific MT4/MT5 Group to adhere to the exposure rule. Note: You can add multiple groups by using a comma (',').
Limit	This parameter empowers you to establish the exposure for the selected filters (Account, Symbol, Group, TEM). The limit is specified in volumes. Example: • Symbol: XAUUSD • MT5 Login: 12012 • Limit: 100,000 volumes In the given example, if the account 12012 surpasses the set exposure limit, subsequent incoming trades will be either redirected to the Maker or rejected, depending on the specified rule.
Adjustment Value	When set to 1, the purpose is to trigger a flag, allowing fractional volume to be counted towards 'B,' even if it exceeds the limit for A-book routing.

Priority	This parameter applies in the event of having overlapping configurations. You can proceed to set the priority to adjust the rules, On a scale 1-10, rule with priority 10 will be considered first.
Description	This is the section where you can determine whether you want to manage the exposure or limit the exposure. If you choose option 1, which is **'Manage,'** you can add any value or text in the description box for reference purposes only. On the other hand, if you choose option 2, which is **'Limit,'** you must add a macro rule in the description box, and the value should be '#reject#. By adding the macro rule, you have specified that if any filtered account/group/symbol/TEM exceeds the set exposure, subsequent incoming trades will be rejected.
Enable	Indicates whether the Rule is enabled or disabled • If ticked, the Rule is enabled • If unticked, the Rule is disabled, hence no is applied

Configuring Concentration Per Login

To configure a Concentration Per Login

1. Select the desired Concentration Per the Login rule.
2. Configure the desired fields.
3. Click the **"Save"** button on top to deploy the changes.



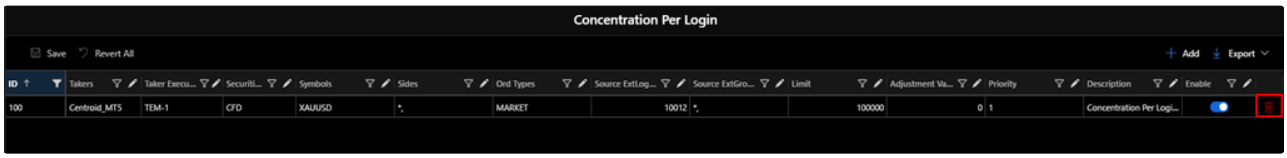
Field	Editable	Possible Values	Description
ID	No	*100, 1, 12*	A unique ID number for the configured rule
Taker	Yes	*Centroid_MT5*	The source Taker(s) You may select one or multiple Takers from the list or type a pattern manually by ticking the Pattern tick-box **Note**: You may use wildcards (*) for all and negations (!) for exclusion when typing a pattern
TEM	Yes	*TEM-1*	Trades executed with this source TEM will adhere to the exposure rule, additionally following Source Login and Group Filter criteria.
Securities	Yes	*CFD*	Specifying a security here indicates that only the symbols falling under this security are eligible to adhere to the concentration per login rule, either by managing or limiting the exposure.
Symbols	Yes	*XAUUSD*	The exposure limit will be exclusively applied to the symbols specified here. If no symbols are selected, it implies that all symbols within the chosen security will adhere to the exposure rule.
Sides	Yes	**, Buy, Sell*	Default Value: * [meaning all] However, broker can further change the settings to either Buy or Sell trades.
Ord Types	Yes	*Market, Limit*	The additional filter for order types enables you to specify whether you want the exposure rule applied to market orders, limit orders, stop orders, or all (*).

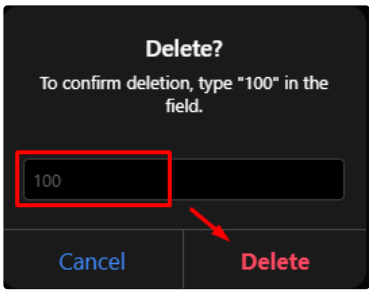
Source ExtLogin	Yes	*10012, 10013*	This parameter allows you to enter a specific MT4/MT5 Login number. **Note:** You can add only one account at a time. **Note:** Entering '0' means that all accounts will adhere to this exposure rule.
Source ExtGroup	Yes	*Testonly\A-10*	This parameter enables you to enter a specific MT4/MT5 Group to adhere to the exposure rule. Note: You can add multiple groups by using a comma (',').
Limit	Yes	*100000, 350000*	This parameter empowers you to establish the exposure for the selected filters (Account, Symbol, Group, TEM). The limit is specified in volumes. Example: • Symbol: XAUUSD • MT5 Login: 12012 • Limit: 100,000 volumes In the given example, if the account 12012 surpasses the set exposure limit, subsequent incoming trades will be either redirected to the Maker or rejected, depending on the specified rule.
Adjustment Value	Yes	*1*	When set to 1, the purpose is to trigger a flag, allowing fractional volume to be counted towards 'B,' even if it exceeds the limit for A-book routing.
Priority	Yes	*1, 2, 5, 10*	This parameter applies in the event of having overlapping configurations. You can proceed to set the priority to adjust the rules, On a scale 1-10, rule with priority 10 will be considered first.
Description	Yes		This is the section where you can determine whether you want to manage the exposure or limit the exposure. If you choose option 1, which is **'Manage,'** you can add any value or text in the description box for reference purposes only. On the other hand, if you choose option 2, which is **'Limit,'** you must add a macro rule in the description box, and the value should be '#reject#. By adding the macro rule, you have specified that if any filtered account/group/symbol/TEM exceeds the set exposure, subsequent incoming trades will be rejected.
Enable	Yes	*Enabled, Disabled*	Indicates whether the Rule is enabled or disabled • If ticked, the Rule is enabled • If unticked, the Rule is disabled, hence no is applied

Delete a Concentration Per Login

To delete a Concentration Per Login

1. Click the **"Delete"** icon next to the desired Concentration Per Login.
2. To confirm the Deletion, type in the specified text.
3. Click the **"Delete"** button in the pop-up window to confirm the deletion.

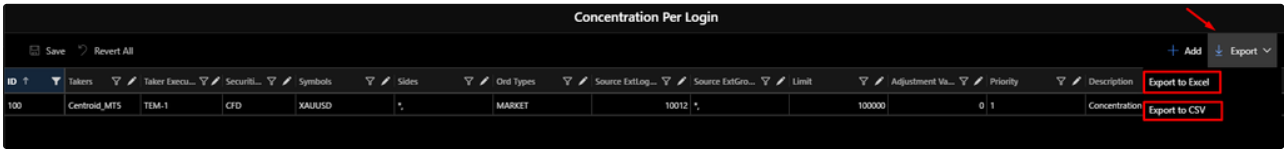




Exporting a Concentration Per Login

To Export a Concentration Per Login

1. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”.



Hedge Trade Rule

Overview

The Hedge Trade Rule allows you to create rules that automatically copy or hedge a trade with a customizable delay specified in milliseconds to optimize timing and potentially minimize slippage. It has a refined mechanism for securing a better price while maintaining control over the acceptable deviation from the ideal price point, thereby managing risk more effectively. It will open new positions primarily for hedging risks, based on predefined conditions such as Better Points, Worse Points, and Delay.

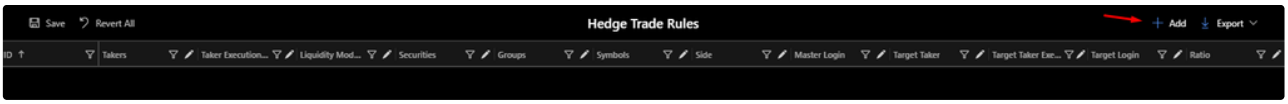
In this component, you will be able to do the following:

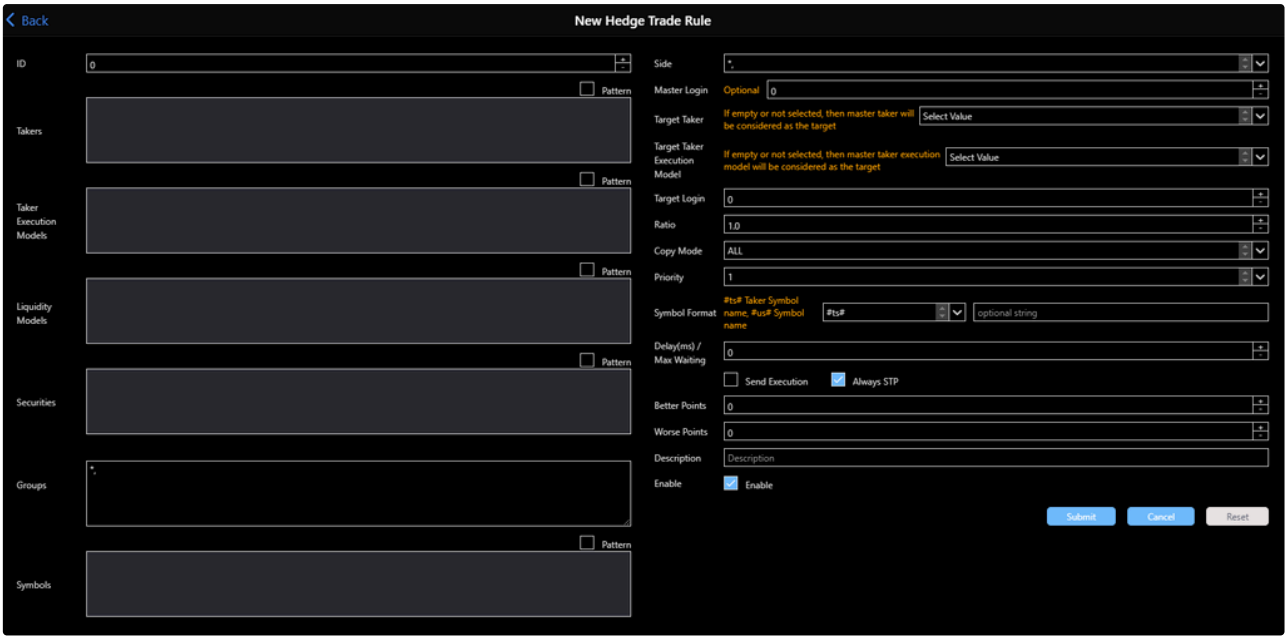
1. Create a new Hedge Trade Rule
2. Filter the currently configured Hedge Trade Rule by different criteria
3. Enable/Disable a particular Rule
4. View and edit a currently configured Hedge Trade Rule
5. Delete a Hedge Trade Rule
6. Click “**Export”** and select “**Export to Excel**” or “**Export to CSV**”

Creating a Hedge Trade Rule

To create a Hedge Trade Rule

1. Click **“Add”** button to create a new Hedge Trade Rule



2. Fill out the Wizard. You may refer to the field descriptions below

3. Click **“Submit”** to submit the changes