

MIAX Futures Clearing System User Manual

Effective July 2026

Table of Contents

- 1. Introduction 8**
 - 1.1 Signing In 8
 - 1.2 User Roles 9
 - 1.3 User Settings 10
- 2. Dashboard 12**
 - 2.1 Banner 12
 - 2.2 Navigation Bar 13
 - 2.3 Search Tool 14
 - 2.4 Dashboard Metrics and Widgets 15
 - 2.4.1 Customizing Widgets 15
 - 2.4.2 Created Manual Trades 15
 - 2.4.3 Received Manual Trades 16
 - 2.4.4 Initiated Give-ups 17
 - 2.4.5 Pending Take-ups 18
 - 2.4.6 Business Dates 18
 - 2.4.7 File Uploads 19
 - 2.4.8 Report Status 19
 - 2.4.9 Clearing Window Status 20
 - 2.4.10 Collateral Window Status 21
 - 2.4.11 Shipping Certificate Window Status 21
 - 2.4.12 Clearing Members 22
- 3. Basic System Functionality 23**
 - 3.1 Queries 23
 - 3.2 Tables 24
 - 3.3 Exporting Data 27
 - 3.4 Updating Reference Data 27
 - 3.4.1 Communication Settings 27
 - 3.4.2 Trade Accounts 28

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

- 4. File Upload Management..... 30**
- 5. Trade Management 32**
 - 5.1 Trade Search..... 32
 - 5.1.1 Matched Trades 32
 - 5.1.2 Trade Log..... 32
 - 5.2 Trade Entry..... 34
 - 5.2.1 Create Manual Trade 34
 - 5.2.2 Receive Manual Trade..... 36
 - 5.2.3 Transfer Trade 38
 - 5.2.3.1 Trade Entry via Portal 38
 - 5.2.3.2 File Upload 38
 - 5.2.4 Trade Split..... 40
 - 5.2.5 Trade Update 42
 - 5.2.5.1 Update Unmatched Trades 42
 - 5.2.5.2 Update Matched Trades Individually..... 42
 - 5.2.5.3 Mass Update Matched Trades..... 43
 - 5.2.6 Delete Unmatched Manual Trade..... 47
- 6. Allocation Management 48**
 - 6.1 Trade Assignment for Give-up Grouping..... 48
 - 6.1.1 Adding Trades to Give-up Groups..... 49
 - 6.1.2 Removing Trades from Give-up Groups..... 52
 - 6.1.3 Cancelling a Give-up Group 53
 - 6.2 Preparing Give-up Groups for Allocation..... 54
 - 6.2.1 Marking an Average Price Group as COMPLETE 54
 - 6.2.2 Reopening an Average Price Group to INCOMPLETE 55
 - 6.3 Give-ups and Take-ups..... 55
 - 6.3.1 Initiate a Give-up Allocation 55
 - 6.3.2 Accept a Take-up Allocation 57
 - 6.3.3 Update a Give-up/Take-up 58
 - 6.3.3.1 Update Individually 58
 - 6.3.3.2 Mass Update 59

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

6.3.4 Reject a Take-up.....	61
6.3.5 Cancel a Give-up Allocation	62
6.3.6 Reverse Take-up	63
6.3.6.1 Initiate a Reversal	63
6.3.6.2 Cancel an initiated Reversal Request.....	64
6.3.6.3 Accept/Reject a received Reversal Request	66
6.3.6.4 Reversals in Position Data and TRX Reporting.....	67
6.3.7 Sub-allocate Take-up.....	67
6.3.8 Cancel Sub-allocation on Take-up	69
6.3.8.1 Cancelling the Give-up Group.....	69
6.3.8.2 Removing the Take-up.....	69
6.4 Initiating Give-ups from the Trades screen.....	70
6.5 Allocations Log	72
7. Position Management.....	74
7.1 Positions	74
7.1.1 Positions.....	74
7.1.2 Position Breakdown	75
7.2 Position Reporting	75
7.2.1 Gross Positions	76
7.2.1.1 Reporting via Portal.....	76
7.2.1.2 PCS File Upload.....	77
7.2.2 End-of-Lifecycle Position Reports.....	77
7.2.2.1 General Position Reporting Instructions	78
7.2.2.2 Expiring Positions Reporting.....	79
7.2.2.3 Expiring Positions Reconciliation	80
7.2.2.4 Consolidated Expiring Positions Reporting.....	80
7.2.2.5 Consolidated Expiring Positions Reconciliation	81
7.2.2.6 Long Date Position Reporting	82
7.2.2.7 Long Date Positions Reconciliation	83
7.2.2.8 Expiring Options Position Reporting	83
8. Option Exercise	85

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

- 8.1 Early Option Exercise 85
- 8.2 Option Expiration 86
- 8.3 Exercise Generated Trades 87
- 9. Settlements 88**
- 9.1 Settlement Runs 88
- 9.2 Settlement Instructions 88
- 9.3 Settlement Breakdown..... 89
- 9.4 Settlement Positions 90
- 10. Shipping Certificate Management 91**
- 10.1 Viewing Shipping Certificates..... 91
- 10.1.1 Shipping Certificates Inventory 91
- 10.1.2 Issued Shipping Certificates 93
- 10.1.3 Loaded Out Shipping Certificates 93
- 10.1.4 Shipping Certificate Transactions 94
- 10.1.5 Shipping Certificate and Transaction Logs..... 95
- 10.2 Add a Shipping Certificate 95
- 10.3 Update a Shipping Certificate 98
- 10.3.1 Update Individually..... 98
- 10.3.2 Mass Update 99
- 10.4 Update Ownership Information 100
- 10.5 Delete a Shipping Certificate..... 101
- 10.6 Issue a Shipping Certificate 101
- 10.7 Storage Fee Accrual and Payment 102
- 10.8 Cancel an Issued Shipping Certificate Inventory 102
- 10.9 Transfer a Shipping Certificate..... 103
- 10.9.1 Initiate a Transfer 103
- 10.9.2 Update a Transfer 103
- 10.9.3 Cancelling a Transfer 104
- 10.9.4 Accepting or Rejecting a Transfer 104
- 10.10 Initiating a Load-out 105

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

10.11 Approving Load Out Requests	106
11. Delivery	107
11.1 Shipping Certificates	107
11.2 Delivery Intentions	107
11.3 Delivery Intention Validations	109
11.4 Delivery Positions	109
11.5 Delivery Assignments	110
11.6 Delivery Settlement Amounts	110
12. Margin and Guaranty Fund	113
12.1 Margin	113
12.2 Margin Requirements	113
12.3 Guaranty Fund	114
12.4 Guaranty Fund Requirements	114
13. Collateral	116
13.1 Collateral Positions	116
13.2 Collateral Transactions	116
13.2.1 Initiate Deposit	116
13.2.1.1 Collateral Transaction Statuses	118
13.2.2 Initiate Withdrawal	119
13.2.3 Approve Transaction	120
13.2.4 Cancel Transaction	121
13.2.5 Cancel and Replace Transaction	122
13.3 Collateral Logs	123
13.3.1 Collateral Position Log	123
13.3.2 Collateral Transaction Log	124
13.4 Collateral Value	125
13.4.1 Collateral Value Per Account	125
13.4.2 Collateral Value Per Sub-asset class	126
Appendix A: Revision History	127



1. Introduction

The **MIAX Futures Clearing System (“MCS”)** is a novel clearing solution designed to be an all-in-one platform for trade, position, and allocation management with an emphasis on usability, interoperability, and scalability by asset class, product type, and venue.

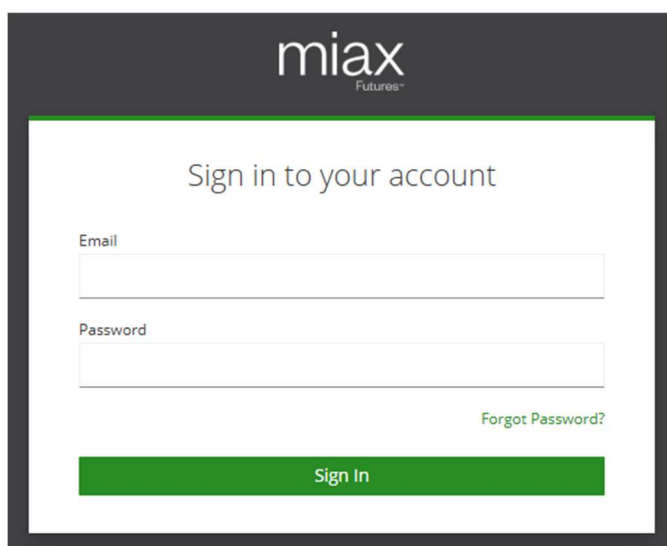
MCS is designed to provide users with rapid, reliable data access and communication features, all delivered via an intuitive user interface (portal). MCS also integrates full-featured, standards-based APIs to enable automation and streamlining of member firm clearing operations.

This document will introduce users to the core features of MCS, including general table and query utilities, trade and allocation management, and position reporting.

1.1 Signing In

To access MCS in production:

1. Enter the URL for MCS, <https://clearing.miaxfutures.com>, in a web browser
2. Enter your **username/email address** and **password**
 - a. If you are unsure if an account has been created for you in MCS, contact your firm’s MIA X Futures Clearing Authorized Administrator or main contact with MIA X Futures
 - b. If you have not set or forgotten your password, click the **Forgot Password?** link, check your inbox for a password reset email, and follow the received instructions
3. Click **Sign In**

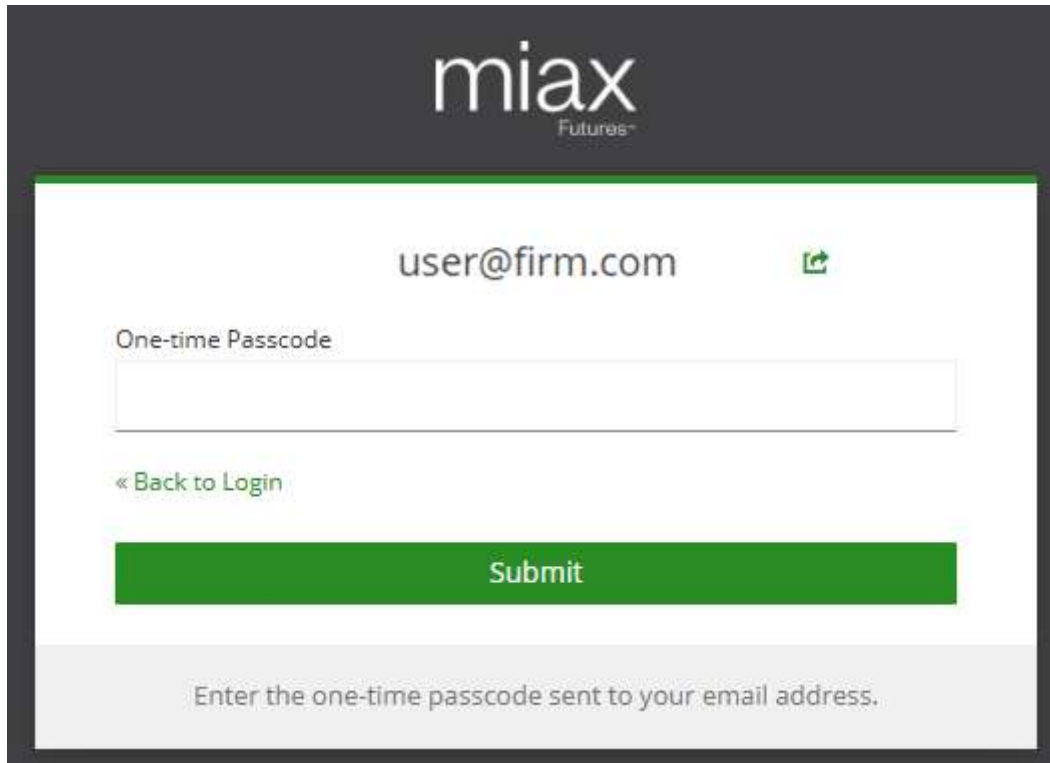
A screenshot of the MIA X Futures login page. The page has a dark grey header with the "miax Futures" logo. Below the header is a white box with a green border containing the text "Sign in to your account". There are two input fields: "Email" and "Password". To the right of the "Password" field is a link that says "Forgot Password?". At the bottom of the white box is a green button with the text "Sign In".

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

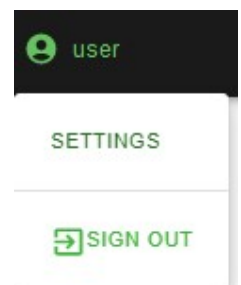
4. Check your inbox for the One-time Passcode (OTP), and type or copy-and-paste it into corresponding field in your web browser



Users will be signed out of MCS upon closing their web browser tab. Alternatively, by clicking the username in the top right of the screen, users can click SIGN OUT in the drop-down list that subsequently appears.

1.2 User Roles

According to the needs of a Member Firm’s departments and staff, different user roles can be arranged for each account provided to a firm, each with different permissions within MCS. For each user, firms can either choose from two Aggregate Roles, or select from the Granular Roles to customize their users’ access in MCS:



Aggregate Roles include:

- **Clearing Member Viewer:** Users with this role are granted all Viewer Granular Roles, allowing them to view all areas and functions in MCS
- **Clearing Member Operator:** Users with this role are granted all Viewer, Manager, and Administrative Granular Roles, allowing them to view and manage all areas and functions in MCS

Granular Roles include:

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAx Futures | miaxglobal.com

- **Viewer Roles:** Each viewer role grants a user access to view MCS reference data, as well as any data pertaining to the granted role. Multiple viewer roles can be granted to one account.
 - **Reference Data Viewer:** Ability to view product and market reference data
 - **Trade Viewer:** Ability to view clearing member's trades
 - **Position Viewer:** Ability to view clearing member's positions
 - **Delivery Viewer:** Ability to view clearing member's delivery information
 - **Settlement Viewer:** Ability to view clearing member's settlement data
 - **Collateral Viewer:** Ability to view clearing member's total collateral balances
 - **Margin Viewer:** Ability to view clearing member's margin requirements
- **Manager Roles:** Each manager role grants a user access to view MCS reference data, as well as access to view and update data pertaining to the granted role. Multiple manager roles can be granted to one account.
 - **Trade Manager:** Permissions to submit and manage trades
 - **Position Manager:** Permissions to submit and manage position reporting
 - **Delivery Manager:** Permissions to submit and manage delivery information, shipping certificates, etc.
- **Administrative Role:** The administrative role grants a user access to view MCS reference data, add and/or update trade accounts, and manage distribution lists for MCS alerts and reports.

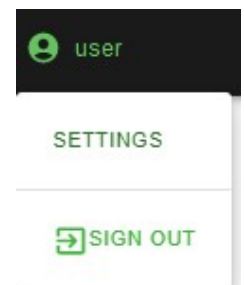
Users can view their permissions from the User Settings screen, described in section 1.3.

1.3 User Settings

Once a user has logged in, they can view and modify their MCS experience from the User Settings screen.

To Navigate to the User Settings screen:

1. **Click on the username in the upper right of the screen** to open a drop-down list
2. Select **SETTINGS** from the drop-down



User Profile

You are logged in as: **User**
 You have member id: **###**
 You have roles:

CM_REFDATA_VIEWER
CM_COLLATERAL_VIEWER
CM_MARGIN_VIEWER
CM_TRADE_VIEWER
CM_DELIVERY_VIEWER
CM_SETTLEMENT_VIEWER
CM_POSITION_VIEWER


Default Search Criteria


By selecting both market and date type, the default business date will be changed

Select default market... ▼

Select default date type... ▼

Theme


 Dark


 Light

User Preferences

RESET ALL PREFERENCES

From here, users can:

- View which user permissions they have been granted in MCS
- Adjust Market and Calendar date used by default when searching and viewing MCS data
- Switch between Dark and Light themes for MCS display
- Reset all User Settings back to the system defaults

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

2. Dashboard

Upon successful login, the Clearing Member’s dashboard will be displayed, featuring a number of useful tools, metrics, and action items.

The screenshot displays the MIAX PRODUCTION dashboard. At the top, there is a navigation bar with the MIAX logo, the word "PRODUCTION", a search bar, and notification icons. Below the navigation bar, a summary section shows three key metrics: 33 TRADES, 7 POSITIONS, and 0 ALLOCATIONS. The main content area is divided into four panels:

- Created Manual Trades:** A table with columns for Counterparty, Instrument, and Status. It shows two entries for "Test CM 999 - 999" with instruments "W_09_23" and "W_07_23", both with a status of "ENTERED".
- Initiated Give-ups:** A table with columns for Counterparty, Instrument, Note, Status, and Action. It shows two entries for "999 S" and "999 R" with instruments "W_07_23" and "W_12_23", both with a status of "PENDING".
- Received Manual Trades:** A detailed view of a trade with the following details: Counterparty Member: Test CM 999, Counterparty ID: 999, Instrument: W_09_23, Exchange: MGEX, Trade Type: TRANSFER, Trade Side: SELL, and Price: 9.
- Pending Take-ups:** A detailed view of a pending trade with the following details: Counterparty Member: 999, Instrument: W_09_23, Trade Side: Sell, Price: 8.68, Quantity: 2, and Clearing Date: 2023-02-28.

2.1 Banner



The banner can be found at the top of every screen in MCS portal. It hosts multiple features, including:

1. **The Navigation Bar Menu:** Allows a user to collapse or expand the Navigation Bar
2. **The MIAX Futures Logo:** Serves as a link to the dashboard
3. **The Search Bar:** Allows users to search for screens in MCS by name

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

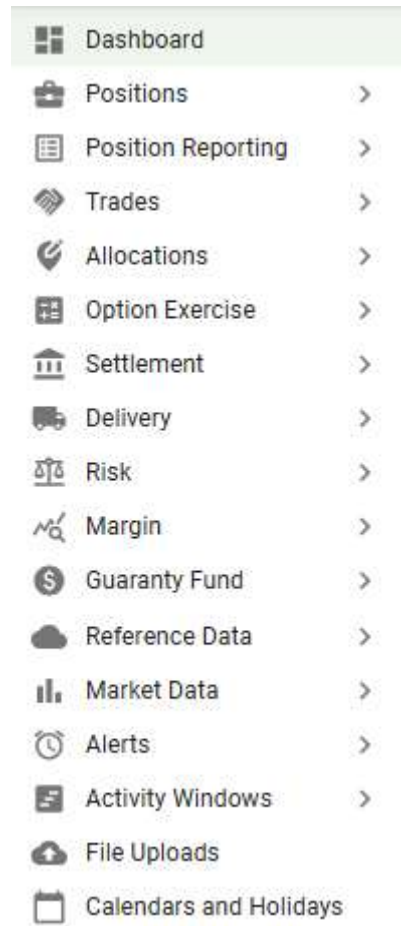
MIAX Futures | miaxglobal.com

4. **The Alert Icon:** Allows users to review recent system alerts
5. **The Dark Mode Toggle:** Allows users to invert MCS portal color scheme for a darker display
6. **The Calendar Icon:** Displays the current Trade Date and Clearing Date for each market, and the current Settlement and Margin calendar dates when clicked
7. **The User Icon:** Displays a drop-down when clicked, with options to sign-out, view a user's account information and adjust various settings

2.2 Navigation Bar

The navigation bar, when expanded, can be found on the left side of every screen in the MCS portal. It links to every area in MCS, highlighting the screen currently being viewed in light green. These areas include:

- **Dashboard:** Displays a summary of a Clearing Member's pending trades, allocations, and reporting
- **Positions:** Displays positions and trade activity broken down by instrument
- **Position Reporting:** Allows users to submit gross, expiring, and delivery position reporting
- **Trades:** Allows users to perform trade queries, trade entry, and trade management
- **Allocations:** Allows users to mark/unmark trades for allocation, and manage allocation groups and give-up/take-up allocations
- **Option Exercise:** Allows users to check ITM evaluations and submit exercise intentions
- **Settlement:** Displays settlement amounts, with various breakdowns
- **Delivery:** Displays shipping certificates, delivery positions, and delivery assignments
- **Margin:** Displays information on a Clearing Member's margin requirements and collateral values
- **Guaranty Fund:** Displays information on a Clearing Member's security deposit requirements
- **Reference Data:** Displays information on all products, markets, Clearing Members, and associated data
- **Alerts:** Displays recent system alerts
- **Activity Windows:** Displays the status various position reporting and activity windows

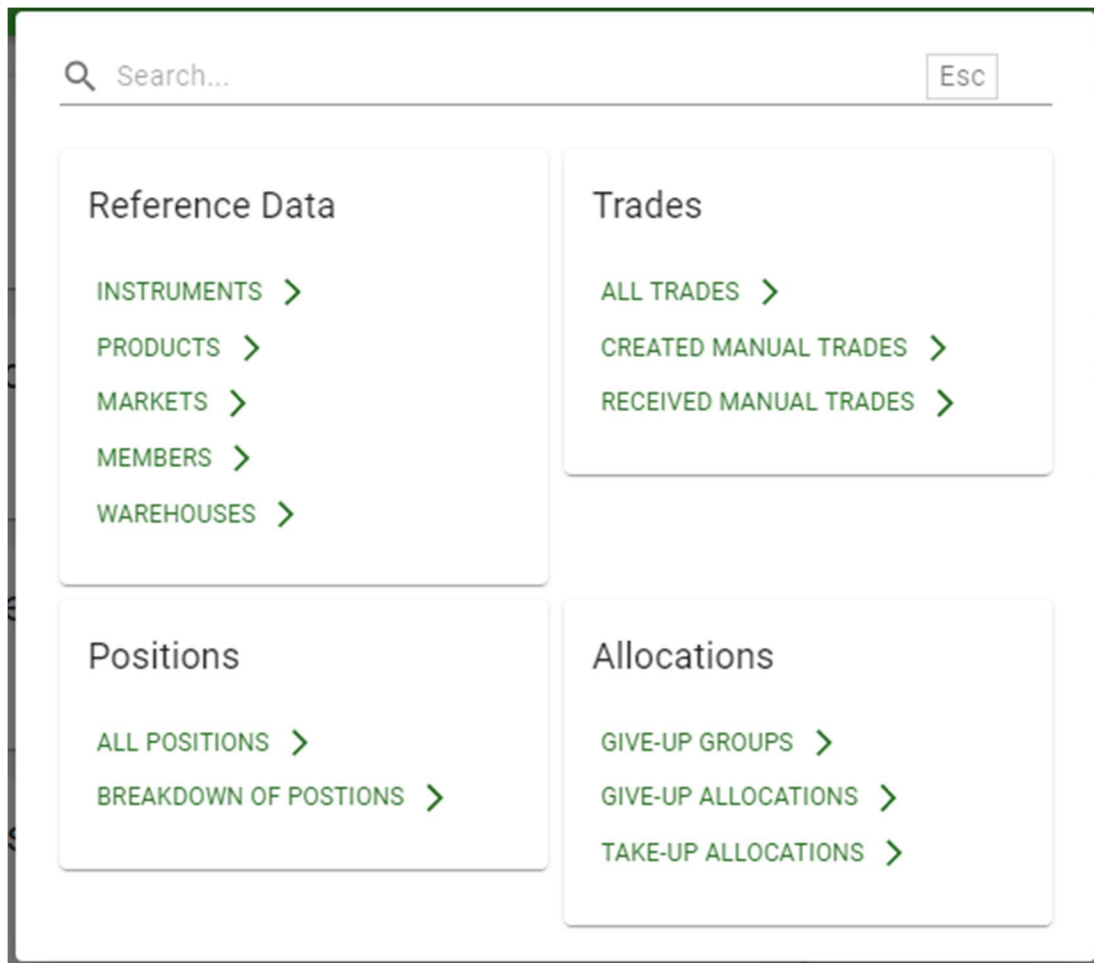


- **File Uploads:** Displays the status of a user’s file uploads, including any error messages
- **Calendar:** Displays holidays for each calendar in use by MCS

NOTE: Throughout the User Manual, areas in MCS will be referenced by listing the parent screen and then sub-screen separated by a dash (e.g. Position Reporting – Gross Position Reporting).

2.3 Search Tool

The search tool, found in the banner at the top of every screen in the MCS portal, allows users to search for areas in MCS by name. To optimize limited screen space, users with compact PC displays may choose to collapse the navigation bar and instead utilize the search tool to navigate MCS.



2.4 Dashboard Metrics and Widgets

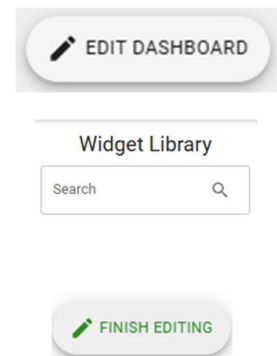
At the top of the dashboard, users can find the sum total of all their Clearing Member’s trades, positions and allocations for the current trade date within MCS. These totals also serve as links to the respective MCS screens.



In the center of the screen, users will also find several widgets designed to assist with managing trades, allocations, and position reporting.

2.4.1 Customizing Widgets

At the bottom right of the dashboard, users can find the Edit Dashboard icon which allows the user to customize dashboard widget format and layout.



- Clicking the icon will open the Widget Library of all available widgets
- Widgets can be added, removed, re-located and re-sized as desired by the user
- Hovering over any non-enabled widget with the cursor will show a preview of the widget
- Once layout customization is complete, click Finish Editing to save

2.4.2 Created Manual Trades

This widget shows the user all manual trades that their Clearing Member has submitted that have yet to be matched by the opposite Clearing Member on the transaction.

Created Manual Trades +			
Counterparty	Instrument	Exchange	Status
999	W0526	MGEX	Pending

NOTE: Trade legs that were not matched by the end of a Trade Date, and consequently were automatically expired by the system (i.e. marked with status SYSTEM CANCELLED) will also display in this widget for up to two business days after having expired. These trade legs are displayed for reference purposes only, and cannot be updated or matched.

- Clicking the icon in the top right of the widget will link the user to the Trades – Created Manual Trades screen if the user has any entered manual trades

2.4.3 Received Manual Trades

This widget shows all unmatched manual trades received from other Clearing Members.

NOTE: Trade legs that were not matched by the end of a Trade Date, and consequently were automatically expired by the system (i.e. marked with status SYSTEM CANCELLED) will also display in this widget for up to two business days after having expired. These trade legs are displayed for reference purposes only, and cannot be matched.

- Clicking the icon in the top right of the widget will link the user to the Trades – Received Manual Trades screen if the user has any received manual trades
- Clicking **MATCH** on any non-expired trade in the widget opens the Match Unmatched Trade pop-up menu also accessible within the Trades – Received Manual Trades screen

Received Manual Trades 📧 2

Counterparty ID	999
Instrument	W0526
Exchange	MGEX
Trade Type	EFP
Trade Side	BUY
Status	PENDING

Price	11
Quantity	1
Trade Date	2024-05-10

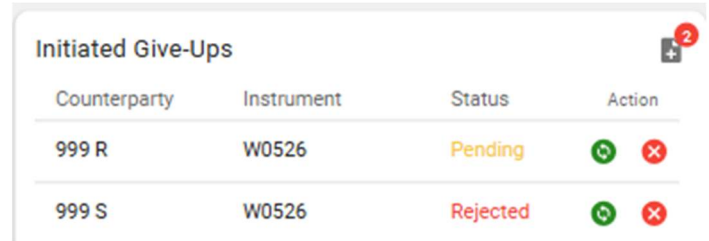
MATCH ⇄





< 1 2 >

2.4.4 Initiated Give-ups

This widget shows the user all give-ups that their Clearing Member has allocated out, as well as its associated non-accepted status (Pending or Rejected).

- Clicking the icon in the top right of the widget will link the user to the Allocations – Give-up Allocations screen for more detailed information on any initiated give-ups
- Clicking the green Action button to the right of any of the give-up allocations will open the Update Give-up Allocation pop-up menu also accessible within the Allocations – Give-up Allocations screen
- Clicking the red Action button to the right of any of the give-up allocations will open the Cancel Give-up Allocation pop-up menu also accessible within the Allocations – Give-up Allocations screen
- Once the allocation has been accepted, the allocation will be removed from widget view



Counterparty	Instrument	Status	Action
999 R	W0526	Pending	 
999 S	W0526	Rejected	 

2.4.5 Pending Take-ups

This widget shows all take-up allocations a Clearing Member has received.

- Clicking the icon in the top right of the widget will link the user to the Allocations – Take-up Allocations screen for more detailed information on any pending take-ups
- Clicking **Accept**, **Update**, or **Reject** on any allocation in the widget to open the Accept, Update, or Reject Give-up pop-up menus also accessible within the Allocations – Take-up Allocations screen
- Once the user has acted on a pending take-up allocation, the allocation will be removed from widget view

Pending Take-ups 📧 2

Counterparty ID	999
Instrument	W0526
Trade Side	Buy
Price	11
Quantity	1
Status	Pending

Account type	R
Account ID	TEST
CTI	4

ACCEPT
UPDATE
REJECT

< 1 2 >

2.4.6 Business Dates

This widget shows the current Trade Date and Clearing Date for each market that the Clearing Member is active in.

Business Dates 📅

	TRADING	CLEARING
MGEX	2022-11-11	2022-11-11
BTNL	2022-11-11	2022-11-11

2.4.7 File Uploads

This widget shows the results of a Clearing Member's attempted uploads on the current Clearing Date.

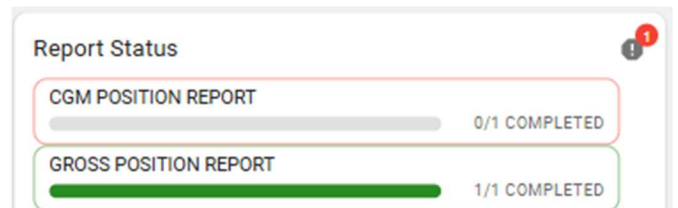
- Clicking the icon in the top right of the widget will link the user to the File Uploads screen
- Clicking the icon to the left of any of the file upload attempts will display the Validation Errors pop-up display also accessible within the File Uploads screen



2.4.8 Report Status

This widget shows a Clearing Member's required position reports for each market, including their completion status as marked by the Clearing Member.

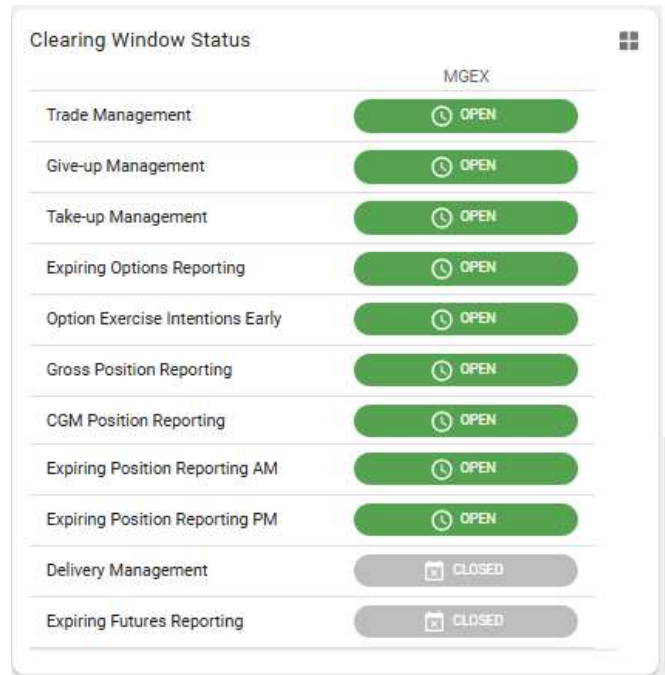
- Clicking the icon in the top right of the widget will link the user to the Position Reporting – Report Status screen
- Clicking the COMPLETED/UNCOMPLETED message on any of the displayed position reports will link the user to the associated MCS screen where the position report can be viewed and updated



2.4.9 Clearing Window Status

This widget shows what functions are able to be performed within MCS at the current time, based on whether the associated Activity Window Status is Open or Closed for the market. The Window Statuses update according to the reporting deadlines, which can be found in Resolution 2101.00.C of the MIAX Futures rulebook, hosted on the MIAX Futures website.

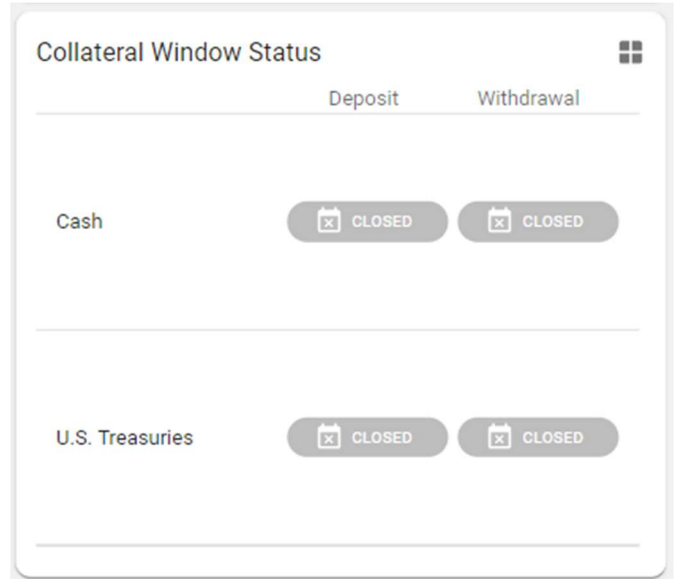
- Clicking the icon in the top right of the widget will link the user to the Activity Windows - Clearing screen



2.4.10 Collateral Window Status

This widget shows what collateral functions are able to be performed within MCS at the current time, based on whether the associated Collateral Activity Window Status is Open or Closed for the Asset Class. The Window Statuses update according to the reporting deadlines, which can be found in Resolution 2101.00.C of the MIAX Futures rulebook, hosted on the MIAX Futures website.

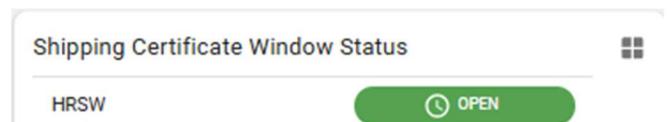
- Clicking the icon in the top right of the widget will link the user to the Activity Windows - Collateral screen



2.4.11 Shipping Certificate Window Status

This widget shows what shipping certificate functions are able to be performed within MCS at the current time, based on whether the associated Shipping Certificate Activity Window Status is Open or Closed for the Asset. The Window Statuses update according to the reporting deadlines, which can be found in Resolution 2101.00.C of the MIAX Futures rulebook, hosted on the MIAX Futures website.

- Clicking the icon in the top right of the widget will link the user to the Activity Windows – Shipping Certificates screen



2.4.12 Clearing Members

This widget displays a list of MIA X Futures Clearing Members including numeric Clearing Member IDs for reference purposes.

- Clicking the icon in the top right of the widget will link the user to the Reference Data – Clearing Members, where more detailed information can be viewed on the Clearing Members in MCS

A screenshot of a web widget titled "Clearing Members". The title is in a bold, dark font. To the right of the title is a small icon of two people. Below the title is a table with two columns: "CM ID" and "Full Legal Name". The table is currently empty.

CM ID	Full Legal Name
-------	-----------------

3. Basic System Functionality

3.1 Queries

Most MCS screens have built in query functionality allowing users to narrow and search within a specific data table. Users can find a list of currently applied search criteria listed directly above the table.

NOTE: Some search criteria are automatically set by MCS when the criteria is required to display data, or to present more relevant data to the user (e.g., setting the Trade or Clearing date to the current date).

Positions

Business Date

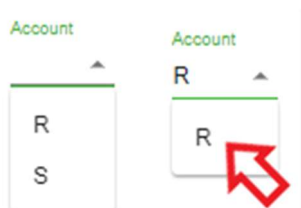
BREAKDOWN

<input type="checkbox"/>	DATE	CM ACCT	INSTRUMENT	BEG LNG	BEG SHRT	BEG NET
<input type="checkbox"/>	2022-11-11	777 R	W_03_23	0	0	0
<input type="checkbox"/>	2022-11-11	777 R	W_12_22	0	0	0

To add a search criterion to a query:

1. Click on the search criteria
2. Select a Filter Value (i.e., data to search for or match on) from the drop-down list
 - a. If no list appears, enter the Filter Value manually

NOTE: When selecting from a drop-down list, users can manually enter the Filter Value to narrow down the list, but must select the option from the drop-down.



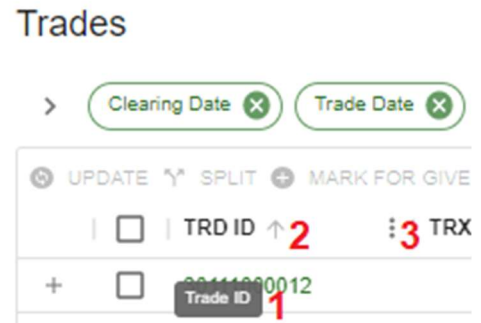
3. Repeat steps one and two for all desired search criteria

NOTE: If a user has not input a Filter Value for a required search criterion, the search results will not be updated. Instead, MCS will denote the missing field in red, informing the user that it is a “Required field.”

3.2 Tables

Additional functionalities are built into each screen’s data tables. Each column allows the user to apply multiple filters, sorting criteria, and other display modifications.

To access these filter and sorting features in a table, hover the cursor over the text in a column header. The user’s display will resemble the image below:

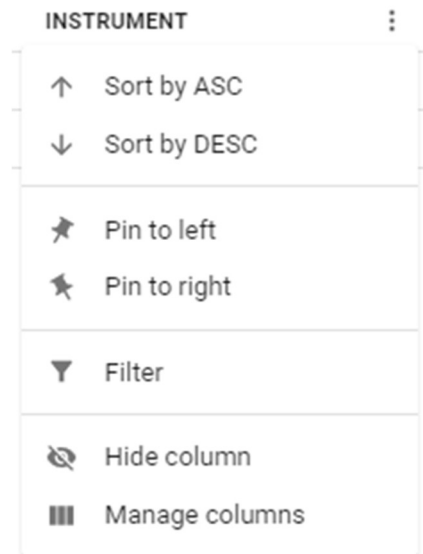


1. **Tooltip:** Hovering the cursor over the column header text will display the tooltip, which presents additional information about the data in the given column
2. **Sort Button:** Hovering the cursor over the column header will display an arrow to the side of the header text. Clicking on this arrow will cycle through the three sorting options for the selected column:
 - a. **Unsorted/Default:** When selected, the arrow will not be visible until user hovers their cursor over the column header
 - b. **Sort in Ascending Order:** When selected, the arrow will appear pointing upwards
 - c. **Sort in Descending Order:** When selected, the arrow will appear pointing downwards

NOTE: Clicking the sort button in one column will undo any previously applied sort(s) in other column(s). To **sort by multiple columns**, hold down the shift key while clicking the sort button in each desired column, taking care to click each column in the order of the user’s desired sorting hierarchy.

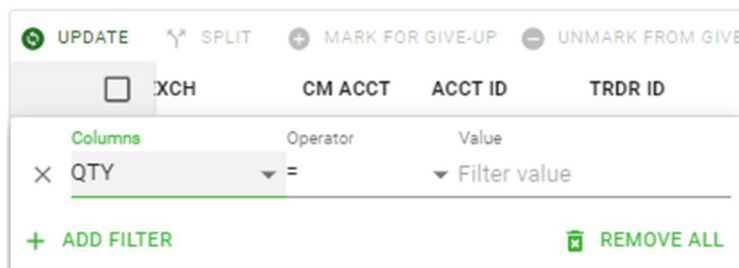
3. **Column Menu:** Hovering the cursor over the column header will display a vertical ellipsis to the side of the header. Clicking on the vertical ellipsis will reveal all additional table functionality, including:

- a. **Unsort, Sort by ASC, and Sort by DESC:** Identical sorting options to the sort button in the column header
- b. **Pin to left and Pin to right:** Clicking either of these will pin the selected column to the left or right of the table, allowing the user to see the column regardless of where they have scrolled to in the table
 - i. Multiple columns can be pinned at once
 - ii. A user can unpin a column by reopening the column menu, and clicking **Unpin** where the Pin to left/Pin to right button was before



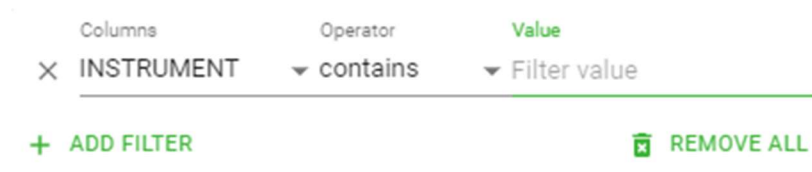
c. **Filter:** Clicking this opens a pop-up menu for advanced filtering of rows

NOTE: This filtering ONLY applies to data visible on the current page of the table.



If the column contains **numerics** (i.e., the vertical ellipsis to open the column menu appear on the left side of the header), the user will select from one of the following logic operators:

- i. **=** : Selects rows where the entry equals the Filter Value
- ii. **!=** : Selects rows where the entry does not equal the Filter Value
- iii. **>** : Selects rows where the entry is greater than the Filter Value
- iv. **>=** : Selects rows where the entry is greater than or equal to the Filter Value
- v. **<** : Selects rows where the entry is less than the Filter Value
- vi. **<=** : Selects rows where the entry is less than or equal to the Filter Value
- vii. **Is empty:** Selects rows with null entries
- viii. **Is not empty:** Selects rows with non-null entries
 - i. **Is any of:** Selects rows that match any entered Filter Values. **To enter multiple Filter Values**, press the enter key after typing in each individual Filter Value.

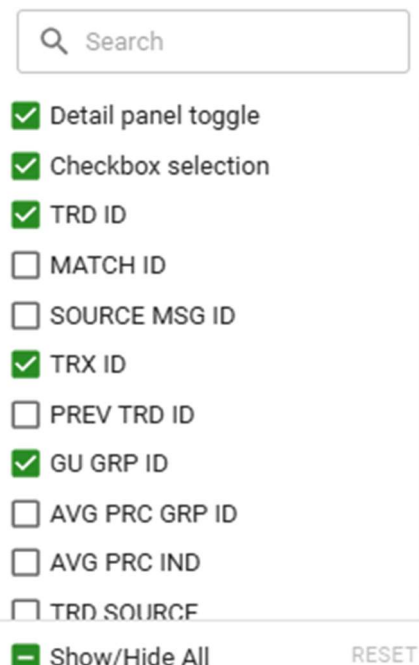


If the column contains **any other data type** (i.e., the vertical ellipsis to open the column menu appear of the right side of the header), the user will select from one of the following logic operators:

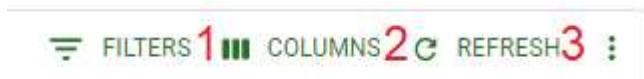
- i. **Contains:** Selects rows where the Filter Value is anywhere within the entry
- ii. **Equals:** Selects rows where the Filter Value exactly matches the entry
- iii. **Starts with:** Selects rows where the Filter Value can be found at the beginning of the entry
- iv. **Ends with:** Selects rows where the Filter Value can be found at the end of the entry
- v. **Is empty:** Selects rows with null entries for this column
- vi. **Is not empty:** Selects rows with non-null entries for this column
- vii. **Is any of:** Selects rows that match any of a list of possible Filter Values. **To enter multiple Filter Values**, press the enter key after typing in each individual Filter Value.

- d. **Hide column:** Hides the selected column from the table
- e. **Manage columns:** Clicking this opens a pop-up menu, allowing the user to toggle which columns to display or hide in the table. Other functionality includes:

- i. **Find column search field:** Narrows pop-up menu list to columns with names matching the Filter Value entered in the search field
- ii. **Hide all:** When selected, all columns will be hidden
- iii. **Show all:** When selected, all columns will be displayed



The top right corner of a table includes additional tools to manage columns and filters in general.

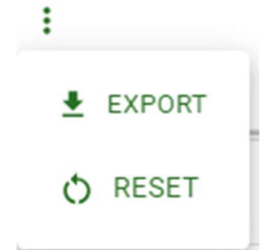


- 1. **Filters:** Opens a pop-up menu for advanced filtering of rows
- 2. **Columns:** Opens a pop-up menu, allowing the user to toggle which columns to display or hide in the table

3. **Refresh:** Reloads the data table, with the currently applied queries and filters, processing any additional data received by MCS since the page was opened or last reloaded.

Clicking on the three dots reveals the following, additional tools.

1. **Export:** Exports the data in a given table, as described in section 3.3
2. **Reset:** Resets a table to the system default display, removing any customization applied by a user (e.g. visible columns, column order, column size, pinned columns, etc).



3.3 Exporting Data

Along with the expansive sorting and filtering functionality in MCS, users are also able to export the current page of a data table to a CSV file for additional analysis. Any search criteria or filters can be applied to a table to limit the scope of the exported data.

To export a table:

1. **Prepare the table to store the desired data to export**
 - a. **Apply any desired search criteria**
2. **Click the three dots at the top right of the table**
3. Click the **EXPORT** button in the subsequent drop-down list
4. **Repeat steps 1-3 for any additional pages** to export

NOTE: At the current time, data exports are limited to a maximum of 2000 records.

3.4 Updating Reference Data

3.4.1 Communication Settings

Users granted administrative permissions are able to update their Firm's communication settings, including the email distribution lists for all alerts and reports generated by MCS.

Communication Settings

EXPORT REFRESH

Member ID 999	Last Updated By testuser_cm	Last Updated Time 2026-05-11 15:33:41
Alerts test@email.com	Trade Position Reports test@email.com	Financial Reports test@email.com
Delivery Reports test@email.com	Shipping Certificate Inventory Alerts test@email.com	

UPDATE RESET

To Update a Firm’s Communication Settings:

1. Navigate to the **Reference Data – Communication Settings** screen
2. Click the **alert or report list to update**
3. **Enter email addresses as desired**
 - a. **For single entry**, press the **enter key** to move to the next line and type in the email address to add
 - b. **For bulk entry**, copy and paste a list of email addresses, with one address per line and no commas
4. Click **UPDATE** to finalize all changes

Once complete, the updated lists are stored in MCS, and the user’s username along with the current date and time are recorded for reference purposes.

NOTE: If any errors are made prior to finalizing, users can click **RESET** to revert all changes since the last **UPDATE** submission.

3.4.2 Trade Accounts

Users granted administrative permissions are able to add to or update their Firm’s Trade Accounts,

To Add a Trade Account:

1. Navigate to the **Reference Data – Trade Accounts** screen
2. Click **ADD** in the in the top left of the screen to open the Add Trade Account pop-up menu

Add Trade Account

R/S ▼

Account ID Trading Permit Type
Not Specified ▼

Account Name

CFTC Reporting Number LEI

Contact Person

Street Address

3. **Input the Clearing Member Account type, Account ID, Trading Permit type (formerly known as Member type), and any additional optional fields**
4. Click **SUBMIT**

To Update a Trade Account:

1. Navigate to the **Reference Data – Trade Accounts** screen
2. **Locate and select the trade account to update**
3. Click **Update** in the in the top left of the screen to open the Update Trade Account pop-up menu

Update Trade Account

Clearing Member Account Type
 111 S

Account ID Trading Permit Type
 Test Account Not Specified ▼

Account Name
 Test Account

4. Edit any updatable fields as desired
5. Click **SUBMIT**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

4. File Upload Management

The file management and file upload capabilities incorporated into MCS provide users the ability to submit various pre-templated files for multiple workflows. Upon navigating to the File Upload screen from the Dashboard, users will be able to upload, query and view successful and unsuccessful file upload attempts.

File Uploads

Business Date: 2023-10-04

File Type: [dropdown] Status: [dropdown]

FILE NAME	FILE TYPE	CM	PROCESSED TIME	LAST UPDATED TIME	ACCEPTED	REJECTED	PREV RPTD	COMPLETED %	STATUS
777_transfer_20231004_1.csv	Transfer trade file	777	2023-10-26 06:04:08	2023-10-26 06:04:08	0	1	0	100 %	⚠
777_transfer_20231004_2.csv	Transfer trade file	777	2023-10-26 06:08:24	2023-10-26 06:08:24	0	1	0	100 %	⚠
777_transfer_20231004_3.csv	Transfer trade file	777	2023-10-26 06:09:17	2023-10-26 06:09:17	1	0	0	100 %	✓

The pre-templated files users can expect include:

- Position reporting files: Users can submit the following files via SFTP and update their position reporting all at once instead of one instrument at a time. Individual file specifications are available at [MIAX Futures Interface Specifications | MIAX \(miaxglobal.com\)](#)
 - **Position Change Submission (PCS) File**
 - **Expiring Position Report File**
 - **Long Date Position Reporting File**
- Trade reporting files: Users can submit the following files via the File Uploads screen and input or update trades all at once instead of one manual trade entry at a time
 - **Transfer Trade File:** Detailed in section 5.2.3.2 of the MIAX Futures Clearing System User Manual

Once a file is uploaded into MCS, a message will be returned to the user indicating the status of the file. These statuses include:

- **Processing:** File is currently being validated by MCS
- **Failed:** File upload unsuccessful; indicates one or more critical errors
- **Partially Accepted:** File accepted with one or more errors, treated as a successful upload by MCS
- **Accepted:** File uploaded successfully with no errors

Users will also be able to query their file uploads within MCS based on Business Date, File Type, and Status.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

If any errors are found during the file upload process, MCS will store the associated error code, location within the file, and a brief error description. Users can view a list of all encountered errors by clicking on the FAILED hyperlink in the Status field of any unsuccessful upload attempts.

Validation errors

Row number	Entity number	Error code	Message
2	0	19000	accountType must not be null

CLOSE

5. Trade Management

- Trades ▼
- Trades
- Trade Log
- Created Manual Trades
- Received Manual Trades

MCS allows users to query, submit, and update all trades involving their Clearing Member. MCS stores all received trades for the current system date, as well as recent historical trades. This includes electronic trades received for clearing as well as any Ex-Pit transactions entered directly in MCS portal.

5.1 Trade Search

5.1.1 Matched Trades

All trades successfully processed by MCS are viewable in the Trades – Trades screen, including trades from the current business date and 25 calendar days of historic trades.

Trades

>
Clearing Date ✕
Clearing Member ✕

<input type="checkbox"/>	TRD ID	TRX ID	GU GRP ID	EXCH	CM ACCT	ACCT ID
+ <input type="checkbox"/>	30041000033	27		MGEX	905 S	TEST ACCOUNT 1
+ <input type="checkbox"/>	30041000034	26		MGEX	905 S	TEST ACCOUNT 2
+ <input type="checkbox"/>	30041000041	29		MGEX	905 S	TEST ACCOUNT 3

When querying matched trades, Clearing Date and Trade Date default to match the current system date.

NOTE: The current system date is calculated as the oldest Clearing Date and Trade Date between all markets. This is to account for the delay in date rolling between the close of the Trade Date, and the close of the Clearing Date with final Volume and Open Interest the morning of the next business date.

5.1.2 Trade Log

For each matched trade, MCS will store a record of all trade management updates within the trade log. This log includes information on the time of, the user responsible for, and the reason behind each log record. Trade logs are stored for as long as the associated trade is stored in the system, i.e. up to 25 calendar days.

Log reasons include:

- **New** (i.e., trade first received by MCS)
- **Updated** (i.e., change made to updatable fields)

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

- **Split**
- **TAS Repricing**
- **Grouped** (for give-up)
- **Un-grouped** (for give-up)
- **Option exercise**
- **End of trade management**
- **Busted** (i.e., an invalid or incorrect trade has been removed from the day's records)
- **Backed-out** (i.e., an electronic trade that was incorrectly parsed, or involved in some other technical issue, is being removed from the day's records in order to resubmit the originating trade message)
- **Adjusted** (i.e., a trade has been updated with a new price after a receipt of an adjustment message is received from the exchange, or is otherwise requested and authorized by clearing house staff)

To find the Trade Log of a particular trade:

1. Navigate to **the Trades – Trades** screen
2. **Locate the desired trade** to inspect
3. **Click on the “+” button** in the left most column of a trade record

This will reveal a partial log of up to three of the most recent updates received for a given trade

Trades

>
Clearing Date
Clearing Member

UPDATE
 ADJUST
 SPLIT
 CANCEL
 MASS CANCEL
 MARK FOR GIVE-UP
 UNMARK FROM GIVE-UP
 INITIATE GIVE-UP

	TRD ID	TRX ID	GU GRP ID	EXCH	CM ACCT	ACCT ID	TRDR ID	CL ORD ID	INSTRUMENT
-	<input type="checkbox"/>	30041000057	38	MGEX	777 S	C1			W1223

LAST UPDATED TIME	CL MEMBER ACCT	QTY	PRICE	ACCT ID
2023-10-26 05:39:33	777 S	5	9.6	C1

Showing 1 out of 1 items. [View full Trade Log.](#)

4. Click on the **Trade ID** or **“View full Trade Log”** to view the full list of updates

Trade Log

Clearing Member Trade ID

Trade ID: 30041000057 Previous Trade ID: R/S Trade Status: Log Reason:

FILTERS COLUMNS REFRESH

TRD ID	LAST UPDATED TIME ↓	CM ACCT	INSTRUMENT	BUY/SELL	QTY	PRICE	ACCT ID	CTI	O/C
3004100005	2023-10-26 05:39:33	777 S	W1223	Buy	5	9.60	C1	4	

To query Trade Logs in general:

1. Navigate to the **Trades – Trade Log** screen to see all logs stored by MCS, from which a user can query for desired logs

Trade Log

Clearing Member

Trade ID: Previous Trade ID:

Account: Trade Status:

Log Reason:

EXPORT REFRESH

TRD ID	LAST UPDATED TIME	CL MEMBER...	INSTRUMENT	TRD SIDE
30111000012	2022-11-16 10:33:18	777 R	W_12_22	Buy
30111000014	2022-11-16 10:34:07	777 R	W 03 23	Buy

5.2 Trade Entry

5.2.1 Create Manual Trade

To Enter a Trade Manually/via Portal:

1. Navigate to the **Trades – Created Manual Trades** screen
2. Click **ENTER** in the top left of the screen to open the Trade Entry pop-up menu

Enter Manual Trade Leg

<input type="text" value="Instrument"/>	<input type="text" value="Exchange"/>
<input type="text" value="Account"/>	
<input type="text" value="Counterparty Member"/>	<input type="text" value="Trade type"/>
<input type="text" value="Quantity"/>	<input type="text" value="Price"/>
<input type="text" value="Effect"/>	<input type="text" value="Trade side"/>
<input type="text" value="Trade date"/>	<input type="text" value="Trade time"/>
<input type="text" value="Customer type indicator"/>	<input type="text" value="Account ID"/>
<input type="text" value="CI Order ID"/>	<input type="text" value="Broker code"/>
<input type="text" value="Opposite broker code"/>	

SUBMIT CANCEL

3. **Enter trade details into the appropriate fields**, either by selecting an option from the drop-down list or, if none appear, completing the field manually

NOTE: When selecting from a drop-down list, users can enter the name of the option they are looking for to narrow the list, but must ultimately select the option from the list.

4. Click **SUBMIT**, and review any received error messages
 - a. **Enter trade details for any missing required fields.** These will appear highlighted in red with an error message, as in the example below

Account ID

Required field

- b. **Correct any fields with inappropriate data types or values.** Any such fields will display an error message at the bottom of the pop-up menu



Once a manual trade is entered, MCS attempts to match it against one or more unmatched trades received on the current Clearing Date. If successful, these trades are promoted to matched trades, displayed in the Trades – Trades screen. Otherwise, the received manual trade is stored as an unmatched trade, displayed in the Trades – Created Manual Trades screen for the executing Clearing Member, and in the Trades – Received Manual Trades screen for the opposite Clearing Member.

At the end of each Trade Date, any remaining unmatched manual trades will be updated to a SYSTEM CANCELLED state. The trades will no longer be updatable or able to be matched, and will remain for reference purposes for the next two business days.

5.2.2 Receive Manual Trade

When MCS receives a trade where a user’s Clearing Member is listed as the counterparty, it is displayed in the Trades – Received Manual Trades screen.

Received Manual Trades

⇌ MATCH								
<input type="checkbox"/>	OPP CM	EXCH	INSTRUMENT	BUY/SELL	QTY	PRICE	TRD TYPE	CL DATE
<input type="checkbox"/>	777	MGEX	W1223	Buy	10	9.80	EFP	2023-10-04

When selecting “match” from this screen, MCS displays a trade entry menu with most fields auto populated for users from the received trade, negating the need to manually reenter these fields.

To Match a Trade via UI:

1. Navigate to the **Trades – Received Manual Trades** screen
2. **Locate and select the received trade** to be matched
3. Click **MATCH** in the top left of the table to open the Match Unmatched Trade pop-up menu

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

Match Unmatched Trade

Instrument W_12_22	Exchange MGEX
Account	
Counterparty Member 777	Trade type EFP
Quantity 5	Price 980
Effect	Trade side Sell
Trade date 11/11/2022	Trade time
Customer type indicator	Account ID
CI Order ID	Broker code
Opposite broker code	

SUBMIT CANCEL

4. Input values for the following fields:

- a. **Account Type**
- b. **Customer Type Indicator**
- c. **Account ID**
- d. **Effect (for transfer trades)**
- e. **Any optional fields as desired**

5. Click SUBMIT

This will promote both the entered matching trade and the received manual trade to matched trades, displayed in the Trades – Trades screen.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

At the end of each Trade Date, any remaining unmatched manual trades will be updated to a SYSTEM CANCELLED state. The trades will no longer be updatable or able to be matched, and will remain for reference purposes for the next two business days.

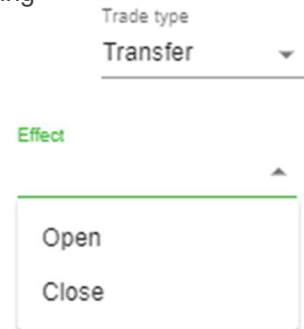
5.2.3 Transfer Trade

MCS allows users to submit transfer trades through one of two ways.

5.2.3.1 Trade Entry via Portal

This method follows the same steps used when creating a manual trade, except for two additional steps.

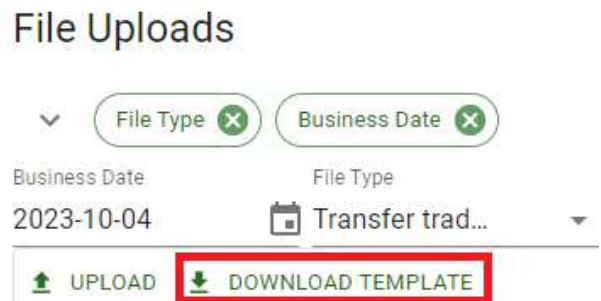
1. Follow the steps outlined in section **5.2.1 Create Manual Trade**, entering the following values in the Trade Entry pop-up menu:
 - a. **Trade Type: TRANSFER**
 - b. **Effect: Open/Close** to inform MCS if this trade will “Open” the position in the Clearing Member’s records or “Close” out an existing position



5.2.3.2 File Upload

This method allows a user to upload multiple transfer trades at once utilizing a CSV file.

1. Navigate to the **File Uploads** screen
2. Select **Transfer Trade File** as the Filter Value for the File Type
3. Click **DOWNLOAD TEMPLATE** in the top left of the screen to download a pre-formatted CSV file.
4. **Open the downloaded template file**
5. **Enter the trade information of the transfer trade(s)** into the appropriate fields, **one trade per row**. Each column in the template has a header indicating the appropriate information to be entered.



Header	Expected Value for Transfer Trade file (CSV)
Exchange	Exchange ID/MIC code (e.g., XMGE)
Firm Code	Three-digit Clearing Member Code/ID of the Executing Firm
Account Type	“R” for Regular or “S” for Segregated

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

Commodity	Clearing Code of the Product
Month	Contract Month of the Instrument (MM)
Year	Contract Year of the Instrument (YY)
Strike	Strike Price, in decimal format (e.g., 250.01)
Call/Put	Option type of the Instrument, “P” for Put or “C” for Call
Trade Side	“Buy” or “Sell”
Price	Trade Price, in decimal format (e.g., 123.45)
Quantity	Quantity of contracts
Account ID	Account ID
CI Order ID	Order Number (Optional)
CTI	Customer Type Indicator (1, 2, 3, 4)
Broker Code	Broker Code of the Primary Broker (Optional)
Opposite Side Broker	Broker Code of the Opposite Broker (Optional)
Trade Time	Date and time the transaction was agreed upon , in ISO 8601 Timestamp format (e.g., 2022-04-30T11:16:54-06:00) (Optional)
Opposite Firm Code	Three-digit Clearing Member Code/ID of the Opposite Firm
Position Effect	“Open” or “Close” if the trade is opening or closing out a position, respectively
Trade Date	Business date the trade was entered for (YYYYMMDD)

6. Save the file

7. Click **UPLOAD** in the **Transfer Trade** tab of the **File Uploads** screen to open the Import Transfer Trades pop-up menu

8. **Select the updated CSV file** to upload

9. Click **SUBMIT**. The upload attempt should appear in the File Uploads table with a status of SUCCEEDED.

File Uploads

File Type Business Date

Business Date: 2023-10-04 File Type: Transfer trade file Status:

UPLOAD DOWNLOAD TEMPLATE FILTERS COLUMNS

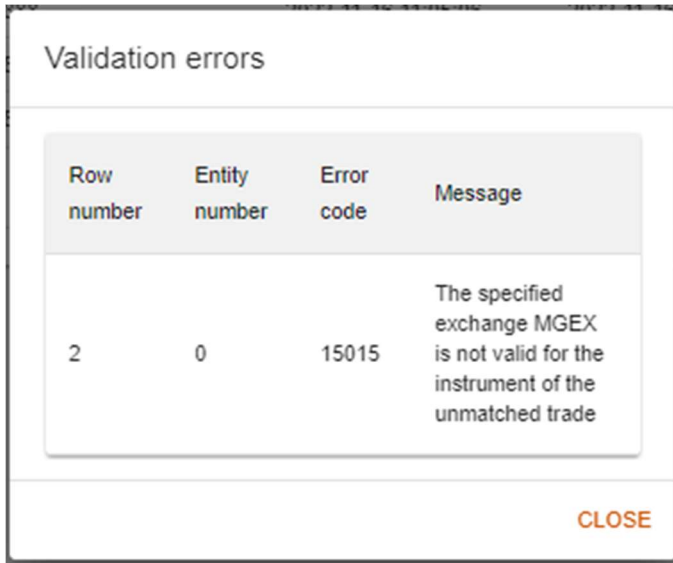
FILE NAME	FILE TYPE	CM	PROCESSED TIME	LAST UPDATED TIME	ACCEPTED	REJECTED	PREV RPTD	COMPLETED %	STATUS
777_transfer_20231004_...	Transfer trade file	777	2023-10-04 06:09:17	2023-10-04 06:09:17	1	0	0	100%	✓

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

- a. If the upload attempt has a status of **FAILED**, click on the hyperlink in the **Status** field to open the Validation Errors pop-up window. This will display a table of errors, specifying the row number for each error present, and a detailed message explaining the error.



5.2.4 Trade Split

MCS allows users to split the quantity of a matched trade between multiple Account IDs across their Clearing Member’s Regular and Segregated accounts.

To Perform a Trade Split

1. Navigate to the **Trades – Trades** screen
2. **Locate and select the trade to split**
3. Click **SPLIT** in the top left of the screen to open the Trade Split pop-up menu
4. (Optional) **Update fields on the original trade** in the first row

Trade Split

Trade ID	Instrument	Clearing Member	Last Updated Time	User ID	Quantity
30041000057	W1223	777	2023-10-26 05:39:33	user	5

Initial Trade

R/S	Account ID	CTI	Position Effect	Trade Time	Client Order ID	Split Quantity
S	ACC1	4				5

+ ADD ROW

SUBMIT CANCEL

5. Click **ADD ROW** to create a “Split” from the original trade

Trade Split

Trade ID	Instrument	Clearing Member	Last Updated At	Last Updated By	Quantity
30071000002	WW_10_22	125	2022-10-10 2:10:55	user	10

Initial Trade

Account	Account ID	CTI	Position Effect	Trade Time	CI Order ID	Split Quantity
S	ACC2	4	Close			10

Splits

Account	Account ID	CTI	Position Effect	Trade Time	CI Order ID	Split Quantity
S	ACC2	4	Close			

+ ADD ROW

SUBMIT CANCEL

6. Input the **Clearing Member Account** and **Account ID** that will receive the split, **the quantity** of this split, the **Customer Type Indicator**, and any additional optional information in the new split row
7. Repeat steps 4 and 5 until all desired splits have been created, or the available split quantity to split from (the split quantity of the first row) has reached the minimum quantity of 1
8. Click **SUBMIT**

NOTE: All newly created split trades are assigned new Trade IDs. MCS will populate the Previous Trade ID field with the Trade ID of the original trade.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

5.2.5 Trade Update

5.2.5.1 Update Unmatched Trades

If MCS has not received all the necessary trade(s) to match a manually entered trade, it remains searchable in the Trades – Created Manual Trades screen where users can update it.

To update an Unmatched Trade:

1. Navigate to the **Trades – Created Manual Trades** screen
2. **Locate and select the trade to modify**
3. Click **UPDATE** in the top left of the screen to open the Update Manual Trade pop-up menu
4. **Edit any updatable fields as desired**

Update Manual Trade

Trade ID
30071000003

Clearing Date Received timestamp
2022-10-07 **2022-10-10 14:14:30**

Last updated timestamp
2022-10-10 14:14:30

Clearing member Updated by
Best Hopstan **user**

Instrument
WW_10_22 ▼

Account
REGULAR ▼

Trade date Trade time
10/07/2022 📅 **14:14:30** 📅

5. Click **SUBMIT**

5.2.5.2 Update Matched Trades Individually

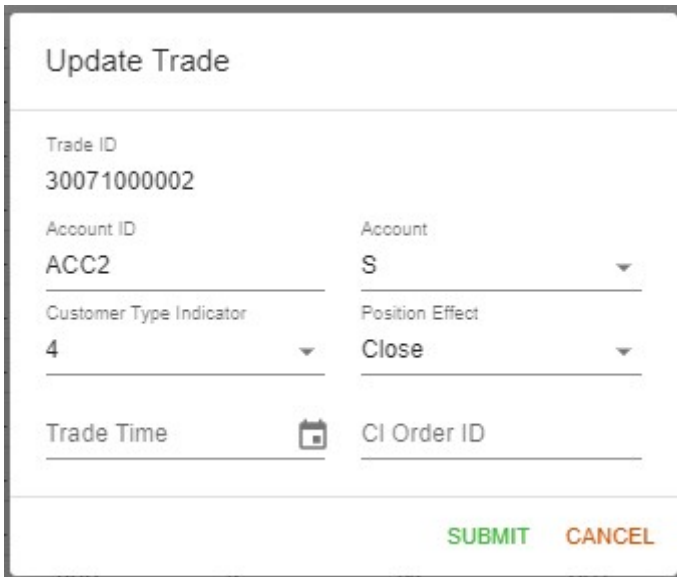
Once a trade has been matched, it becomes searchable in the Trades - Trades screen. At this time, most options to edit the trade are made unavailable. However, certain fields may still be updated if the trade is in a manageable state.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

To Update a Matched Trade:

1. Navigate to the **Trades – Trades** screen
2. **Locate and select the trade to modify**
3. Click **UPDATE** in the top left of the screen to open the Update Trade pop-up menu
4. **Edit any updatable fields** as desired



The screenshot shows a 'Update Trade' dialog box with the following fields and values:

- Trade ID: 30071000002
- Account ID: ACC2
- Account: S
- Customer Type Indicator: 4
- Position Effect: Close
- Trade Time: (with a calendar icon)
- CI Order ID: (empty)

At the bottom of the dialog are two buttons: 'SUBMIT' (green) and 'CANCEL' (orange).

5. Click **SUBMIT**

NOTE: If a matched trade is updated with a new Clearing Member Account (CMA) type after acceptance, MCS will remove positions from the original CMA and create identical positions for the CMA listed in the update.

5.2.5.3 Mass Update Matched Trades

There are two ways to submit updates to multiple matched trades at once. The first option is to follow the steps in 5.2.5.1 Update Matched Trades Individually, instead selecting multiple trades that are still in a manageable state.

Update trades

1 Set values 2 Result

TRD ID	Match ID
30061000490	30061000245
30061000534	30061000267

From Values:

R/S	CTI	Account ID
S	4	S_Acct1

To Values:

R/S	CTI	Account ID
S <input type="text"/>	4 <input type="text"/>	S_Acct1

UPDATE TRADES

CLOSE

NOTE: Trades selected for mass update must have the same:

- **Trade Date**
- **Market**
- **Clearing Member Account**
- **CTI code**
- **Account ID**

Alternatively, users can use the Mass Update pop-up menu to update all trades sharing the same fields listed above, as long as they are in a manageable state.

To Mass Update Matched Trades:

1. Navigate to the **Trades – Trades** screen
2. **Verify that no trades are selected** in the Trades table
3. Click **UPDATE** in the top left of the screen to open the Mass Update pop-up menu

Mass Update

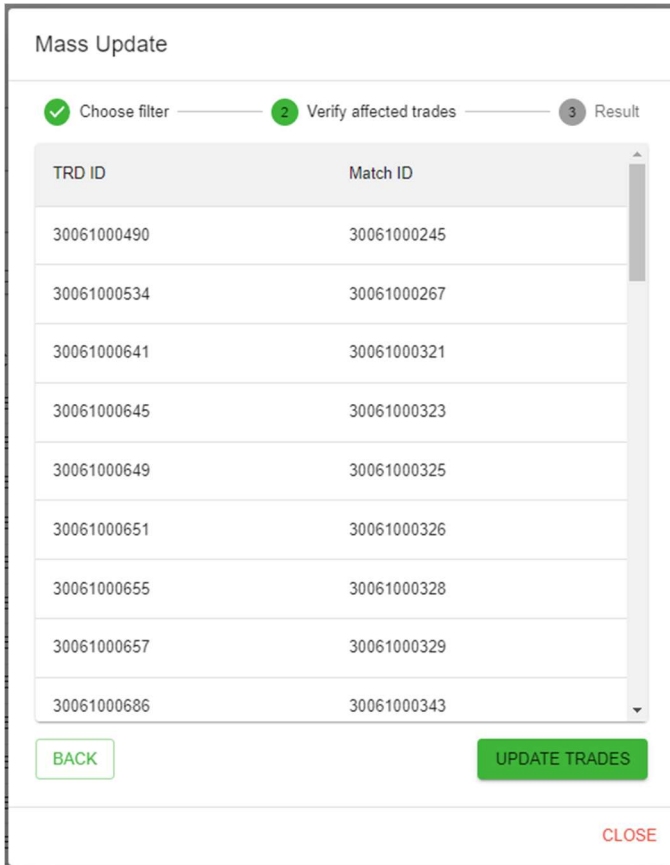
1 Choose filter
2 Verify affected trades
3 Result

From values	To values
Market <input type="text" value=""/>	Market <input type="text" value=""/>
Clearing Member <input type="text" value="357"/>	Clearing Member <input type="text" value="357"/>
R/S <input type="text" value="S"/>	R/S <input type="text" value="S"/>
Type Indicator <input type="text" value=""/>	Type Indicator <input type="text" value=""/>
Account ID <input type="text" value=""/>	Account ID <input type="text" value=""/>

NEXT

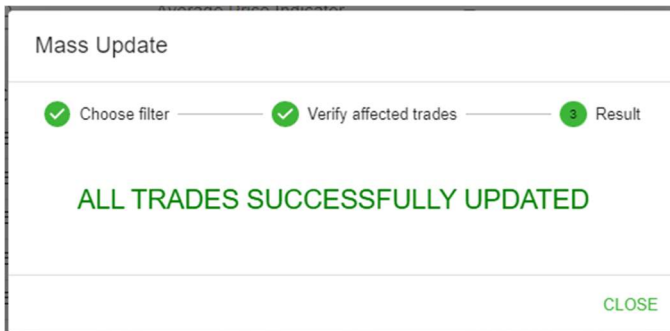
CLOSE

4. Enter the identifying values for the trades to be updated under “From values”
5. Enter the desired values under “To values”
6. Click **NEXT** to see a list of the trades that will be updated, based on the selection criteria



7. **Confirm the list** of affected trades is accurate
8. Select **UPDATE TRADES**
9. Select **CLOSE** after verifying the results of the mass update

MCS will display the results of the mass update, either informing the user that all trades were successfully updated, or displaying any errors that occurred.



5.2.6 Delete Unmatched Manual Trade

In addition to updating, users have the option to delete a manual trade until MCS receives the matching trade(s).

To Delete an Unmatched Manual Trade:

1. Navigate to the **Trades - Created Manual Trades** screen
2. **Locate and select the trade to modify**
3. Click **DELETE** in the top left of the screen to open the Delete Manual Trade pop-up window
4. Click **SUBMIT**

6. Allocation Management

MCS allows users to perform give-ups on any transactions from the same Clearing Date. Clearing Members have a 5-day window to allocate trades into a give-up group, initiate the give-up, have either side of the give-up/take-up submit updates, and have the opposite Clearing Member accept the take-up.

MCS also includes new processes to streamline give-up management including:

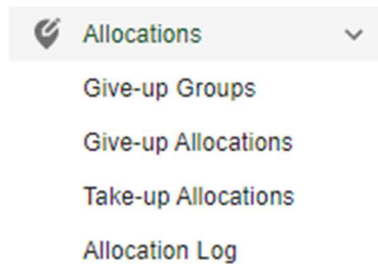
- **Reversals:** Users have the option to request a reversal on a give-up, even after they have been fully processed by MCS. If accepted by the opposite Clearing Member, the received quantity of contracts is returned to the originating Clearing Member, and the net value is returned to the receiving Clearing Member.
- **Sub-allocations:** Users can sub-allocate received give-ups (i.e., add take-up allocations to give up groups), allowing users to:
 - Quickly initiate subsequent give-ups
 - Distribute a take-up among multiple accounts
 - Transfer received positions to a third party

To help identify when each of these processes can be run, a status field is displayed when viewing give-up groups and give-ups/take-ups via MCS portal. These statuses will be explained in context throughout this section.

6.1 Trade Assignment for Give-up Grouping

Users can assign or remove trades from a give-up group from the Trades – Trades screen. MCS has two types of give-up groups for users to choose from:

1. **Allocation groups** consist of one or more matched trades, all with the same price. Allocation groups contain the sub-type **Single Transaction group**, an allocation group with a single trade.
 - a. **Allocation groups start with a status of COMPLETE**, i.e., allocations can be made from this group
2. **Average price groups** consist of one or more matched trades with varying prices, where a weighted average price accurate to ten decimal places is calculated and applied to the whole group.
 - a. **Average price groups start with a status of INCOMPLETE**, i.e., allocations cannot be made from this group until all desired trades are added, and the user marks the group complete as instructed in section 6.2



6.1.1 Adding Trades to Give-up Groups

To Add Trades to a Give-up Group:

1. Navigate to the **Trades – Trades** screen
2. **Locate and select the trade(s) to be included** in the group
3. Click **MARK FOR GIVE-UP** in the top left of the screen to open the Mark for Give-up pop-up menu

Mark for Give-up

TRD ID	INSTRUMENT	LAST UPDATED TIME	USER ID
30041000057	W1223	2023-10-26 05:39:33	user
30041000060	W1223	2023-10-26 08:10:58	user

Allocation Group
 Single Transaction Group
 Average Price Group

Exclude Client Order ID as part of the grouping criteria

SUBMIT CANCEL

4. **Select the give-up group type** to assign the selected trade(s) to:
 - a. **Allocation group**
 - b. **Single transaction group**
 - c. **Average price group**
5. **If assigning to an average price group, an Average Price Group ID is required**

Mark for Give-up

TRD ID	INSTRUMENT	LAST UPDATED TIME	USER ID
30041000057	W1223	2023-10-26 05:39:33	user
30041000060	W1223	2023-10-26 08:10:58	user

Allocation Group
 Single Transaction Group
 Average Price Group

Average Price Group ID
 Avg price group 1

SUBMIT CANCEL

6. Click SUBMIT

MCS will attempt to automatically match the selected trade(s) to an existing give-up group, except for average price groups that have been marked COMPLETE. If such a matching group cannot be found, a new give-up group will be created for the selected trade(s). MCS identifies a match based upon the following fields:

- Instrument
- Clearing Member Account
- Clearing Date
- Trade Side
- Trade Type
- Executing Clearing Member (can be blank)
- Account ID
- Trader ID (can be blank)
- Price (for allocation groups)
- Client Order ID (for allocation groups, unless selected to be excluded)
- Average Price Group ID (for average price groups)

The MCS assigned Group ID will be visible in the Trades – Trades screen under the GU GROUP ID column, serving as an additional search criterion in trade queries, and as a hyperlink to the associated give-up group within the Allocations – Give-up Groups screen.

Trades

> Clearing Date Clearing Member

UPDATE
 SPLIT
 MARK FOR GIVE-UP
 UNMARI

COLUMNS
 REFRESH
 ⋮

<input type="checkbox"/>	TRD ID	TRX ID	GU GRP ID
+	<input type="checkbox"/> 30041000057	38	12041000007
+	<input type="checkbox"/> 30041000060	44	12041000007

Give-up Groups

> Clearing Member Give-up Group ID

INITIATE GIVE-UP
 CANCEL
 COMPLETE GIVE-UP GROUP
 REOPEN GIVE-UP GROUP

COLUMNS
 REFRESH
 ⋮

<input type="checkbox"/>	GU GRP ID ↑	AVG PRC GRP ID	AVG PRC IND	CAB	TRD DATE	CM ACCT
<input type="checkbox"/>	12041000007	Avg price group 1	APG		2023-10-04	777 S

Additionally, the Average Price Indicator field on the trade(s) will be populated with the group type for reference.

- **APG:** Average Price Group
- **GUG:** Allocation Group

Give-up Groups

> Clearing Member

INITIATE GIVE-UP
 CANCEL
 COMPLETE GIVE-UP

<input type="checkbox"/>	GU GROUP ID	AVR PRC GRP ID	AVG PRC IND
<input type="checkbox"/>	10111000033	Avg price group 1	APG
<input type="checkbox"/>	10111000031		GUG

Once a trade has been added to a give-up group, trade management from the Trades – Trades screen will be restricted. Users must perform any additional updates using the allocation management processes described in section 6.3, or otherwise remove the trade from the give-up group for further trade management.

6.1.2 Removing Trades from Give-up Groups

To Remove a Trade from a Give-up Group:

1. Navigate to the **Trades – Trades** screen
2. **Locate and select the trade(s) to remove** from the group. **Selected trade(s) must:**
 - a. **All have the same Give-up Group ID**
 - b. **Belong to an allocation group with a status of COMPLETE, or an average priced group with a status of INCOMPLETE**

Trades

> Clearing Date ✕ Clearing Member ✕

UPDATE SPLIT MARK FOR GIVE-UP UNMARK FROM GIVE-UP INITIAT

	TRD ID	TRX ID	GU GRP ID ↓	EXCH	CM ACCT
+ <input checked="" type="checkbox"/>	30041000057	38	12041000014	MGEX	777 S
+ <input checked="" type="checkbox"/>	30041000060	44	12041000014	MGEX	777 S

3. Click **UNMARK FROM GIVE-UP** in the top left of the screen to open the “Unmark from Give-up ” pop-up menu

Unmark from Give-up

TRD ID	INSTRUMENT	LAST UPDATED TIME	USER ID
30041000057	W1223	2023-10-26 08:40:09	user
30041000060	W1223	2023-10-26 08:40:09	user

SUBMIT CANCEL

4. Click **SUBMIT**

Trades

> Clearing Date Clearing Member

UPDATE
 SPLIT
 MARK FOR GIVE-UP
 UNMARK FROM GIVE-UP
 INITIA

	TRD ID	TRX ID	GU GRP ID ↓	EXCH	CM ACCT
+ <input checked="" type="checkbox"/>	30041000057	38		MGEX	777 S
+ <input checked="" type="checkbox"/>	30041000060	44		MGEX	777 S

All selected trades will have their Give-Up Group ID, Average Price Indicator, and (if populated) Average Price Group ID fields reset.

If all trades have been removed from the give-up group, MCS will automatically cancel the give-up group. This prevents any further addition of trades to this group.

Give-up Groups

> Trade Date Clearing Member

INITIATE GIVE-UP
 CANCEL
 COMPLETE GIVE-UP GROUP
 REOPEN GIVE-UP GROUP

FILTERS
 COLUMNS
 REFRESH

	GU GRP ID ↓	AVG PRC GRP ID	AVG PRC IND	CM ACCT	ACCT ID	CTI	INSTRUMENT	TRD SIDE	PRICE	QTY	STATUS
<input checked="" type="checkbox"/>	12041000014	Avg price group 1	APG	777 S	C1	4	W1223	Buy	0.00	0	Cancelled

6.1.3 Cancelling a Give-up Group

If a user wants to remove all trades from a give-up group, they have the option to cancel the group from the Allocations – Give-up Groups screen.

To Cancel a Give-up Group:

1. Navigate to the **Allocations – Give-up Groups** screen
2. **Locate and select the give-up group(s) to cancel**

Give-up Groups

> Trade Date Clearing Member

INITIATE GIVE-UP
 CANCEL
 COMPLETE GIVE-UP GROUP
 REOPEN GIVE-UP GROUP

FILTERS
 COLUMNS
 REFRESH

	GU GRP ID ↑	AVG PRC GRP ID	AVG PRC IND	CM ACCT	ACCT ID	CTI	INSTRUMENT	TRD SIDE	PRICE	QTY	STATUS
<input checked="" type="checkbox"/>	12041000007	Avg price group 1	APG	777 S	C1	4	W1223	Buy	9.7333333333	15	Incomplete
<input checked="" type="checkbox"/>	12041000008	Avg price group 2	APG	777 S	C1	4	W1223	Buy	10.00	10	Incomplete

3. Click **CANCEL** in the top left of the screen to open the “Cancel Give-up Group” pop-up menu

Cancel Give-up Group

GU GRP ID	INSTRUMENT
12041000007	W1223
12041000008	W1223

SUBMIT CANCEL

4. Click **SUBMIT**

All trades within the give-up group(s) will have their Give-Up Group ID, Average Price Indicator, and (if populated) Average Price Group ID fields reset.

MCS will update the status of the group(s) to Cancelled, preventing any further addition of trades to the group(s).

Give-up Groups

> Trade Date Clearing Member

INITIATE GIVE-UP	CANCEL	COMPLETE GIVE-UP GROUP	REOPEN GIVE-UP GROUP	FILTERS	COLUMNS	REFRESH					
GU GRP ID	AVG PRC GRP ID	AVG PRC IND	CM ACCT	ACCT ID	CTI	INSTRUMENT	TRD SIDE	PRICE	QTY	STATUS	
<input checked="" type="checkbox"/>	12041000007	Avg price group 1	APG	777 S	C1	4	W1223	Buy	0.00	0	Cancelled
<input checked="" type="checkbox"/>	12041000008	Avg price group 2	APG	777 S	C1	4	W1223	Buy	0.00	0	Cancelled

6.2 Preparing Give-up Groups for Allocation

Allocation groups starting with a status of COMPLETE can be assigned out at any time. However, average price groups require an additional step before they can be allocated to another Clearing Member.

6.2.1 Marking an Average Price Group as COMPLETE

When an average price group has been populated with all expected trades, the user can toggle the status to COMPLETE via the Allocations – Give-up Groups screen.

1. Navigate to the **Allocations – Give-up Groups** screen
2. **Locate and select the Average Price Group(s)** to mark
3. Click **COMPLETE** in the top left of the screen to open the “Complete Give-up Groups” pop-up menu

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

4. Click **SUBMIT**

6.2.2 Reopening an Average Price Group to INCOMPLETE

At any point before a give-up has been accepted by the counterparty, users can toggle the status back to INCOMPLETE to add or remove trades from the average price group.

1. Navigate to the **Allocations – Give-up Groups** screen
5. **Locate and select the Average Price Group(s)** to reopen
2. Click **REOPEN GIVE-UP GROUP** in the top left of the screen to open the Reopen Give-up Groups pop-up menu
3. Click **SUBMIT**

NOTE: When updating to INCOMPLETE, the Average Price group’s Accepted Quantity must equal zero. If the group has any pending allocations when marking INCOMPLETE, these allocations will be cancelled.

6.3 Give-ups and Take-ups

Once the give-up group has a status of COMPLETE, it can be viewed and assigned out from the Allocations – Give-up Allocations screen.

6.3.1 Initiate a Give-up Allocation

To Initiate a Give-up Allocation:

1. Navigate to the **Allocations – Give-up Groups** screen
2. **Locate and select the desired give-up group(s)**

Give-up Groups

> Trade Date Clearing Member

INITIATE GIVE-UP CANCEL COMPLETE GIVE-UP GROUP REOPEN GIVE-UP GROUP FILTERS COLUMNS REFRESH 										
	GU GRP ID	AVG PRC IND	INSTRUMENT	TRD SIDE	PRICE	QTY	AVAILABLE QTY	ACCEPTED QTY	TRD TYPE	STATUS
<input checked="" type="checkbox"/>	12041000020	GUG	W1223	Buy	9.80	10	10	0	EFP	Complete
<input checked="" type="checkbox"/>	12041000019	GUG	W1223	Buy	9.60	5	5	0	EFP	Complete

3. Click **INITIATE GIVE-UP** in the top left of the screen to open the “Initiate Give-up(s)” pop-up menu

Initiate Multiple Give-ups

Give-up Info

Group ID	Trade Date	Instrument	Trade Side	Clearing Member Account	Price	Quantity	Available Quantity
12041000020	2023-10-04	W1223	Buy	777 S	9.8	10	10

Take-up Info

Clearing Member	R/S	CTI	Account ID	Quantity	Note
	S	4			

+ ADD ROW

0 / 2

SUBMIT SKIP ALLOCATION CANCEL

4. **Input the Clearing Member that will receive this give-up, the quantity to give-up, and any additional optional information.** If not specified, MCS will default the take-up’s Clearing Member Account type to Segregated, the Customer Type Indicator to 4, and the Account ID to match the give-up group’s Account ID.
5. Click **ADD ROW** to add another give-up
6. **Repeat steps 4 and 5 until all desired give-ups have been created, or the available quantity to give-up from (the available quantity of the first row) has reached 0**
 - a. Click the **Trash Can icon** to the right of any unnecessary row/give-up to delete it
7. Click **SUBMIT**
 - a. Alternatively, if multiple give-up groups were selected, click **SKIP ALLOCATION** to move to the next give-up group without making any edits to the current group
8. If initiating from multiple give-up groups, **repeat steps 4-7 until allocations from all groups have been completed**

MCS will create give-up allocations based on the provided information, displayed in the Allocations – Give-up Allocations screen.

Give-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	CANCEL	REVERSAL	FILTERS	COLUMNS	REFRESH					
<input type="checkbox"/>	ALLOC ID	ALLOC TYPE	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	OPP ACCT ID	CAB	STATUS
<input type="checkbox"/>	12041000044	GUA	W1223	Sell	10	9.80	777	S	ALLOCTEST01	×	Pending
<input type="checkbox"/>	12041000047	GUA	W1223	Sell	5	9.60	777	S	ALLOCTEST02	×	Pending

The Give-up Group ID is set to match the original give-up group, and the Allocation Status is initially set to PENDING. This status is distinct and independent from the give-up group status.

6.3.2 Accept a Take-up Allocation

After a Clearing Member has initiated a give-up allocation, it will appear as a take-up allocation in the opposite Clearing Member’s Allocations – Take-up Allocations screen. From here, a user can view and ultimately accept the take-up allocation.

To Accept a Take-up Allocation:

1. Navigate to the **Allocations – Take-up Allocations** screen
2. **Locate and select the take-up allocation(s)** to accept

Take-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	ACCEPT	REJECT	REVERSAL	SUB-ALLOCATE	REMOVE ALLOCATION FROM GROUP	FILTERS	COLUMNS	REFRESH				
<input checked="" type="checkbox"/>	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	×	2023-10-04	Pending
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	×	2023-10-04	Pending

3. Click **ACCEPT** in the top left of the screen to open the “Accept Take-up Allocation” pop-up menu
 - a. **The status of the allocation(s) must either be in a PENDING or REJECTED state**

Accept Take-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000014	888	W1223	Buy	Take-up	9.05	10		S	TAKEUP1	4
12041000017	888	W1223	Buy	Take-up	9.05	5		S	TAKEUP2	4

SUBMIT CANCEL

4. Click **SUBMIT**

- a. **This will update the give-up/take-up allocation status to ACCEPTED.** If no further actions are taken on the give-up/take-up (i.e., reversals) then the give-up group will be executed, giving up the grouped trades from the originating Clearing Member to the receiving Clearing Member.

Take-up Allocations

> Trade Date Clearing Member

<input type="button" value="UPDATE"/> <input type="button" value="MASS UPDATE"/> <input checked="" type="button" value="ACCEPT"/> <input type="button" value="REJECT"/> <input type="button" value="REVERSAL"/> <input type="button" value="SUB-ALLOCATE"/> <input checked="" type="button" value="REMOVE ALLOCATION FROM GROUP"/> <input type="button" value="FILTERS"/> <input type="button" value="COLUMNS"/> <input type="button" value="REFRESH"/> 													
<input type="checkbox"/>	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS
<input type="checkbox"/>	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	×	2023-10-04	Accepted
<input type="checkbox"/>	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	×	2023-10-04	Accepted

6.3.3 Update a Give-up/Take-up

If an executing Clearing Member is looking to make updates to a give-up allocation(s), they can follow the steps below from the Allocations – Give-up Allocations screen. Likewise, a receiving Clearing Member looking to make updates to a take-up allocation(s) can follow these steps from the Allocation – Take-up Allocations screen.

6.3.3.1 Update Individually

To Update a Give-up/Take-up Allocation:

1. Navigate to the **Allocations – Give-up Groups/Take-up Allocations** screen
2. **Locate and select the give-up/take-up allocations** to update
3. Click **UPDATE** in the top left of the screen to open the Update Give-up/Take-up Allocation pop-up menu
 - a. **The status of the give-up(s) must either be in a PENDING or REJECTED state, while the status of the take-up(s) must be either in a PENDING or ACCEPTED state.** If the take-up allocation(s) has/have been accepted and sub-allocated, then the allocation(s) may no longer be updated.

Update Give-up Allocation

ID	Instrument
12041000013	W1223

Take-up Info

Clearing Member	R/S
777	S
Account ID	CTI
TAKEUP1	4
Quantity	
10	

UPDATE
SKIP

0 / 2

CLOSE

Update Take-up Allocation

ID	Instrument	Quantity
12041000014	W1223	10
Clearing Member	R/S	
777	S	
Account ID	CTI	
TAKEUP1	4	

UPDATE
ACCEPT & UPDATE
SKIP

0 / 2

CLOSE

4. Update any fields as desired

5. Click UPDATE

6. If updating multiple allocations, repeat steps 4-5 until all allocations have been updated

NOTE: If a give-up/take-up allocation is updated with a new Clearing Member Account (CMA) type after acceptance, MCS will update the Clearing Member’s position data in one of two ways, depending on when the update was received:

- **If updated on the Trade Date of the allocation, MCS will remove the original allocation positions**
- **If updated after the Trade Date of the allocation, MCS will offset the original allocation positions**, allowing Clearing Members to report their original long and short quantities via Gross Position Reporting

NOTE: TRX reports will NOT reflect updates submitted after the trade date when the original allocation was accepted.

6.3.3.2 Mass Update

The mass update tool allows users to update multiple give-up/take-up allocations with a single change.

To Mass Update Give-up/Take-up Allocations:

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

1. Navigate to the **Allocations – Give-up Groups/Take-up Allocations** screen
2. **Locate and select the give-up/take-up allocations** to update

UPDATE
 MASS UPDATE
 ACCEPT
 REJECT
 REVERSAL
 SUB-ALLOCATE
 REMOVE ALLOC

<input type="checkbox"/>	ALLOC ID	ALLOC SIDE	GU GRP ID	ALLOC TYPE	CM	R/S	ACCT ID
<input checked="" type="checkbox"/>	17031000123	Take-up		GUA	777	S	ACCT D
<input checked="" type="checkbox"/>	17031000132	Take-up		GUA	777	S	ACCT C
<input checked="" type="checkbox"/>	16031000024	Take-up		GUA	777	S	ACCT B
<input checked="" type="checkbox"/>	17031000129	Take-up		GUA	777	S	ACCT A

3. Click **MASS UPDATE** in the top left of the screen to open the Update Give-up/Take-up Allocation pop-up menu
 - a. **The status of the give-up(s) must either be in a PENDING or REJECTED state, while the status of the take-up(s) must be either in a PENDING or ACCEPTED state.** If the take-up allocation(s) has/have been accepted and sub-allocated, then the allocation(s) may no longer be updated.

Mass Update Take-up Allocations

ALLOC ID	OPP CM	INSTRUMENT	PRICE	QTY	R/S	ACCT ID	CTI
17031000123	777	W1223	9.8525	20	S	ACCT D	4
17031000132	777	W1223	9.8525	8	S	ACCT C	4
16031000024	777	W0324	9.9025	20	S	ACCT B	4
17031000129	777	W1223	9.86	1	S	ACCT A	4

Update To Values

R/S	Account ID	CTI	Quantity
R	ACCT Z	1	Full Quantity

4. **Update any fields as desired**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

5. Click **UPDATE**

NOTE: If a give-up/take-up allocation is updated with a new Clearing Member Account (CMA) type after acceptance, MCS will update the Clearing Member’s position data in one of two ways, depending on when the update was received:

- **If updated on the Trade Date of the allocation, MCS will remove the original allocation positions**
- **If updated after the Trade Date of the allocation, MCS will offset the original allocation positions**, allowing Clearing Members to report their original long and short quantities via Gross Position Reporting

NOTE: TRX reports will NOT reflect updates submitted after the trade date when the original allocation was accepted.

6.3.4 Reject a Take-up

If there is an error in a received take-up allocation which cannot be updated by the receiving Clearing Member, users have the option to reject the take-up allocation from the Allocation – Take-up Allocations screen.

To Reject a Take-up Allocation:

1. Navigate to the **Allocations – Take-up Allocations** screen
2. **Locate and select the take-up allocation(s)** to reject

Take-up Allocations

> Trade Date Clearing Member

	UPDATE	MASS UPDATE	ACCEPT	REJECT	REVERSAL	SUB-ALLOCATE	REMOVE ALLOCATION FROM GROUP	FILTERS	COLUMNS	REFRESH			
	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	✗	2023-10-04	Pending
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	✗	2023-10-04	Pending

3. Click **REJECT** in the top left of the screen to open the Reject Take-up pop-up menu
 - a. **The status of the allocation(s) must be in a PENDING state**

Reject Take-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000014	888	W1223	Buy	Take-up	9.05	10		S	TAKEUP1	4
12041000017	888	W1223	Buy	Take-up	9.05	5		S	TAKEUP2	4

[SUBMIT](#) [CANCEL](#)

4. Click **SUBMIT**

- a. **This will update the status of the allocation(s) to REJECTED.** From this state, the give-up/take-up can either be updated (returning it to a PENDING status), accepted (ACCEPTED status), or cancelled (CANCELLED status)

Take-up Allocations

> Trade Date Clearing Member

UPDATE MASS UPDATE ACCEPT REJECT REVERSAL SUB-ALLOCATE REMOVE ALLOCATION FROM GROUP FILTERS COLUMNS REFRESH													
<input type="checkbox"/>	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS
<input type="checkbox"/>	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	×	2023-10-04	Rejected
<input type="checkbox"/>	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	×	2023-10-04	Rejected

6.3.5 Cancel a Give-up Allocation

If the executing user mistakenly assigned out a give-up allocation, they have the option to cancel the give-up allocation from the Allocation – Give-up Allocations screen.

To Cancel a Give-up Allocation:

1. Navigate to the **Allocations – Give-up Groups** screen
2. **Locate and select the give-up allocation(s) to cancel**

Give-up Allocations

> Trade Date Clearing Member

UPDATE MASS UPDATE CANCEL REVERSAL FILTERS COLUMNS REFRESH											
<input type="checkbox"/>	ALLOC ID	ALLOC TYPE	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	OPP ACCT ID	CAB	STATUS
<input checked="" type="checkbox"/>	12041000023	GUA	W1223	Sell	10	8.95	888	S	ALLOCTEST1	×	Pending
<input checked="" type="checkbox"/>	12041000026	GUA	W1223	Sell	5	8.85	888	S	ALLOCTEST2	×	Pending

3. Click **CANCEL** in the top left of the screen to open the Cancel Give-Up Allocation pop-up menu

a. **The status of the allocation(s) must be in a PENDING or REJECTED state**

Cancel Give-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000023	888	W1223	Sell	Give-up	8.95	10		S	C1	4
12041000026	888	W1223	Sell	Give-up	8.85	5		S	C1	4

SUBMIT **CANCEL**

4. Click **SUBMIT**

a. This will update the status of the allocation(s) to CANCELLED. No further modifications or updates to the allocation(s) may be made by the executing or receiving Clearing Member.

Give-up Allocations

> Trade Date Clearing Member

<input type="checkbox"/>	ALLOC ID	ALLOC TYPE	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	OPP ACCT ID	CAB	STATUS
<input type="checkbox"/>	12041000023	GUA	W1223	Sell	10	8.95	888	S	ALLOCTEST1	✗	Cancelled
<input type="checkbox"/>	12041000026	GUA	W1223	Sell	5	8.85	888	S	ALLOCTEST2	✗	Cancelled

6.3.6 Reverse Take-up

If either party to a give-up wishes to make changes to it after it has been accepted, they can submit a reversal request on their side of the allocation. Once the reversal is accepted by the other party, this returns the quantity of the give-up/take-up to the original give-up group, where a Clearing Member is free to be modify and reallocate it.

6.3.6.1 Initiate a Reversal

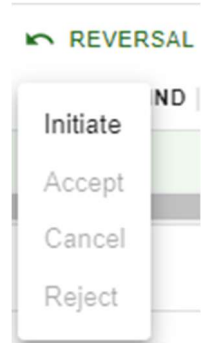
1. **Navigate to the Allocations – Give-up/Take-up Groups screen**, depending on whether the user needs to reverse a give-up/take-up respectively
2. **Locate and select the give-up/take-up allocation(s) to reverse**

Take-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	ACCEPT	REJECT	REVERSAL	SUB-ALLOCATE	REMOVE ALLOCATION FROM GROUP	FILTERS	COLUMNS	REFRESH			
ALLOC ID	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	STATUS	
<input checked="" type="checkbox"/>	12041000014	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	Accepted
<input checked="" type="checkbox"/>	12041000017	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	Accepted

- Click **REVERSAL** in the top left of the screen to display a drop-down list of possible reversal actions
- Click **Initiate** in the drop-down to open the Initiate Reversal Give-up/Take-up Allocation pop-up menu



Initiate Reversal Take-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000014	888	W1223	Buy	Take-up	9.05	10		S	TAKEUP1	4
12041000017	888	W1223	Buy	Take-up	9.05	5		S	TAKEUP2	4

SUBMIT **CANCEL**

- Click **SUBMIT**
 - This will update the status of the allocation(s) to REVERSAL PENDING. From this state, the reversal(s) can either be cancelled by the initiator of the reversal (returning it to its original status), accepted by the opposite party (REVERSED status), or rejected by the opposite party (returning it to its original status).

Take-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	ACCEPT	REJECT	REVERSAL	SUB-ALLOCATE	REMOVE ALLOCATION FROM GROUP	FILTERS	COLUMNS	REFRESH			
ALLOC ID	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	STATUS	
<input type="checkbox"/>	12041000014	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	Reversal Pending
<input type="checkbox"/>	12041000017	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	Reversal Pending

6.3.6.2 Cancel an initiated Reversal Request

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

1. **Navigate to the Allocations – Give-up/Take-up Groups screen**, depending on whether the user needs to reverse a give-up/take-up respectively
2. **Locate and select the give-up/take-up allocation(s) with a status of “Reversal Pending”**

Take-up Allocations

> Trade Date Clearing Member

ALLOC ID ↑	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	STATUS	
<input checked="" type="checkbox"/>	12041000014	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	Reversal Pending
<input checked="" type="checkbox"/>	12041000017	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	Reversal Pending

3. Click **REVERSAL** in the top left of the screen to display a drop-down list of possible reversal actions
4. Click **Cancel** in the drop-down to open the Cancel Reversal Give-up/Take-up Allocation pop-up menu



Cancel Reversal Take-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000014	888	W1223	Buy	Take-up	9.05	10		S	TAKEUP1	4
12041000017	888	W1223	Buy	Take-up	9.05	5		S	TAKEUP2	4

SUBMIT CANCEL

5. Click **SUBMIT**
 - a. This will return the status of the allocation(s) to **ACCEPTED**

Take-up Allocations

> Trade Date Clearing Member

ALLOC ID ↑	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	STATUS	
<input type="checkbox"/>	12041000014	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	Accepted
<input type="checkbox"/>	12041000017	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	Accepted

6.3.6.3 Accept/Reject a received Reversal Request

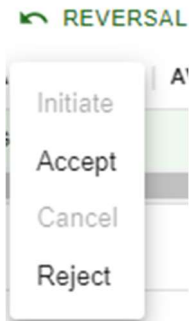
1. **Navigate to the Allocations – Give-up/Take-up Groups screen**, depending on whether a request was received to reverse a give-up/take-up respectively
2. **Locate and select the give-up/take-up allocation(s) with a status of “Reversal Pending”**

Give-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	CANCEL	REVERSAL	FILTERS	COLUMNS	REFRESH						
ALLOC ID	ALLOC TYPE	CM ACCT	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	STATUS	
<input checked="" type="checkbox"/>	12041000013	GUA	888 S	C1	4	W1223	Sell	10	9.05	777	S	Reversal Pending
<input checked="" type="checkbox"/>	12041000016	GUA	888 S	C1	4	W1223	Sell	5	9.05	777	S	Reversal Pending

3. Click **REVERSAL** in the top left of the screen to display a drop-down list of possible reversal actions
4. Click **Accept or Reject** in the drop-down to open the Accept Reversal Give-up/Take-up Allocation pop-up menu, or the Reject Reversal Give-up/Take-up Allocation pop-up menu respectively



Accept Reversal Give-up Allocation

ALLOC ID	OPP CM	INSTRUMENT	BUY/SELL	ALLOC SIDE	PRICE	QTY	NOTE	R/S	ACCT ID	CTI
12041000013	777	W1223	Sell	Give-up	9.05	10		S	C1	4
12041000016	777	W1223	Sell	Give-up	9.05	5		S	C1	4

SUBMIT CANCEL

5. Click **SUBMIT**
 - a. If accepted, this will update the status of the allocation(s) to REVERSED. If rejected, this will return the allocation(s) to a status of ACCEPTED.

Give-up Allocations

> Trade Date Clearing Member

ALLOC ID ↑	ALLOC TYPE	CM ACCT	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	STATUS
12041000013	GUA	888 S	C1	4	W1223	Sell	10	9.05	777	S	Reversed
12041000016	GUA	888 S	C1	4	W1223	Sell	5	9.05	777	S	Reversed

6.3.6.4 Reversals in Position Data and TRX Reporting

Once a reversal has been accepted, MCS will update each Clearing Member’s position data in one of two ways, depending on when the reversal was accepted:

- **If reversed on the same Trade Date of the allocation, MCS will remove the original allocation positions and associated TRX records**
- **If reversed after the Trade Date of the allocation, MCS will add offsetting positions and TRX records, allowing Clearing Members to report their original long and short quantities via Gross Position Reporting**

6.3.7 Sub-allocate Take-up

After a Clearing Member has accepted a take-up, they have the option to sub-allocate trades received as part of this allocation.

To Sub-allocate a Take-up:

1. Navigate to the **Allocations – Take-up Allocations** screen
2. **Locate and select the take-up allocation** to sub-allocate

Take-up Allocations

> Trade Date Clearing Member

ALLOC TYPE	CM	R/S	ACCT ID	CTI	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS	
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP1	4	W1223	Buy	10	9.05	888	×	2023-10-04	Accepted
<input checked="" type="checkbox"/>	GUA	777	S	TAKEUP2	4	W1223	Buy	5	9.05	888	×	2023-10-04	Accepted

3. Click **SUB-ALLOCATE** in the top left of the screen to open the Sub-allocation pop-up menu
 - a. **The status of the allocation must be in an ACCEPTED state**

Sub-allocation

ALLOC ID	INSTRUMENT	LAST UPDATED TIME	USER ID
12041000014	W1223	2023-10-27 13:17:50	user
12041000017	W1223	2023-10-27 13:17:50	user

AVG PRC IND

SUBMIT **CANCEL**

- Select the give-up group type** to assign the selected trade(s) to; no selection will default to an allocation group, or check the AVG PRC IND box to assign to an average price group.

NOTE: Take-ups originating from average price groups can only be sub-allocated into average price groups.

- If assigning to an average price group, an Average Group Price ID is required**

NOTE: If attempting to add to an existing average price group, the group must be in an INCOMPLETE state.

- Click **SUBMIT**

If the user selected the average price group type, MCS will attempt to match the take-up allocation to an existing give-up group. Otherwise, a new give-up group is created from the allocation.

Give-up Groups

> Trade Date Clearing Member

<input type="checkbox"/>	GU GRP ID	AVG PRC IND	INSTRUMENT	TRD SIDE	PRICE	QTY	AVAILABLE QTY	ACCEPTED QTY	TRD TYPE	STATUS
<input type="checkbox"/>	12041000050	GUG	W1223	Buy	9.05	5	5	0	EFR	Complete
<input type="checkbox"/>	12041000049	GUG	W1223	Buy	9.05	10	10	0	EFP	Complete

In addition, the originating take-up allocation's Give-up Group ID field is updated to match the sub-allocation's Give-up Group ID.

Take-up Allocations

> Trade Date Clearing Member

<input type="checkbox"/>	GU GRP ID	ALLOC TYPE	CM	R/S	ACCT ID	CTI	INS
<input type="checkbox"/>	12041000049	GUA	777	S	TAKEUP1	4	W1223
<input type="checkbox"/>	12041000050	GUA	777	S	TAKEUP2	4	W1223

6.3.8 Cancel Sub-allocation on Take-up

Users have two options for cancelling sub-allocations.

6.3.8.1 Cancelling the Give-up Group

Starting from the Allocations – Give-up Allocations screen, users can follow the instructions in section 6.3.5 on the give-up group corresponding to the sub-allocation.

NOTE: If cancelling a sub-allocation from an average price group, then the group’s status must be in an INCOMPLETE state and the sub-allocated take-up’s quantity must be less than or equal to the Available Quantity on the group.

6.3.8.2 Removing the Take-up

Users have the option to remove take-ups from sub-allocations through a similar process to the initial sub-allocation.

To Remove a Take-up from a Sub-allocation:

1. Navigate to the Allocations – Take-up Allocations screen
2. Locate and select the take-up allocation(s) to remove from any sub-allocation(s)

Take-up Allocations

> Trade Date Clearing Member

<input type="checkbox"/>	GU GRP ID	INSTRUMENT	CM	R/S	ACCT ID	CTI	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS
<input checked="" type="checkbox"/>	12041000049	W1223	777	S	TAKEUP1	4	Buy	10	9.05	888	×	2023-10-04	Accepted
<input checked="" type="checkbox"/>	12041000050	W1223	777	S	TAKEUP2	4	Buy	5	9.05	888	×	2023-10-04	Accepted

3. Click **REMOVE ALLOCATION FROM GROUP** in the top left of the screen to open the Remove Allocation from Give-up Group pop-up menu

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Remove Allocation from Give-up Group

ALLOC ID	INSTRUMENT	LAST UPDATED AT	LAST UPDATED BY
12041000014	W1223	2023-10-27 13:19:13	user
12041000017	W1223	2023-10-27 13:19:13	user

SUBMIT **CANCEL**

4. Click **SUBMIT**

Take-up Allocations

> Trade Date Clearing Member

UPDATE	MASS UPDATE	ACCEPT	REJECT	REVERSAL	SUB-ALLOCATE	REMOVE ALLOCATION FROM GROUP	FILTERS	COLUMNS	REFRESH				
GU GRP ID	INSTRUMENT	CM	R/S	ACCT ID	CT1	BUY/SELL	QTY	PRICE	OPP CM	CAB	TRD DATE	STATUS	
<input checked="" type="checkbox"/>		W1223	777	S	TAKEUP1	4	Buy	10	9.05	888	X	2023-10-04	Accepted
<input checked="" type="checkbox"/>		W1223	777	S	TAKEUP2	4	Buy	5	9.05	888	X	2023-10-04	Accepted

Once completed, MCS will reset the take-up allocation’s GU GROUP ID. If the quantity of the give-up group that received the sub-allocation is reduced to zero, this give-up group is cancelled.

Give-up Groups

> Trade Date Clearing Member

INITIATE GIVE-UP	CANCEL	COMPLETE GIVE-UP GROUP	REOPEN GIVE-UP GROUP	FILTERS	COLUMNS	REFRESH					
GU GRP ID	AVG PRC IND	INSTRUMENT	TRD SIDE	PRICE	QTY	AVAILABLE QTY	ACCEPTED QTY	TRD TYPE	STATUS		
<input checked="" type="checkbox"/>		12041000050	GUG	W1223	Buy	9.05	0	0	0	EFR	Cancelled
<input checked="" type="checkbox"/>		12041000049	GUG	W1223	Buy	9.05	0	0	0	EFP	Cancelled

6.4 Initiating Give-ups from the Trades screen

If a user intends to give-up the full quantity of trade(s) to one Clearing Member, MCS allows for simultaneous grouping and give-up allocation creation from the Trades – Trades screen.

To perform a Give-up Allocation from the Trades – Trades screen:

1. **Locate and select the desired trade(s)** to use for a give-up allocation

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Trades

> Clearing Date Clearing Member

	TRD ID	TRX ID	GU GRP ID ↓	EXCH	CM ACCT	ACCT ID	INSTRUMENT
+ <input checked="" type="checkbox"/>	30041000057	38		MGEX	777 S	C1	W1223
+ <input checked="" type="checkbox"/>	30041000060	44		MGEX	777 S	C1	W1223

- Click **INITIATE GIVE-UP** in the top left of the screen to open the Remove Allocation from Give-up Group pop-up menu

Initiate Give-up for Selected Trades

TRD ID	INSTRUMENT	LAST UPDATED TIME	USER ID
30041000057	W1223	2023-10-26 09:38:09	user
30041000060	W1223	2023-10-26 09:38:04	user

Take-up Info

Clearing Member	R/S	CTI	Account ID	Quantity
<input type="text"/>	<input type="text" value="S"/>	<input type="text" value="4"/>	<input type="text"/>	<input type="text" value="Full Quantity"/>

- Input the Clearing Member, Clearing Member Account, CTI code, and Account ID of the account that will receive this give-up.**
- Click **SUBMIT**

The selected trade(s) will now be added to their own Single Transaction Allocation Group(s) and allocated out using the information provided by the user.

NOTE: Allocations initiated from the Trades – Trades screen must be for the full quantity of the selected trade(s).

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

Trades

> Clearing Date Clearing Member

<input type="checkbox"/>	<input type="checkbox"/>	TRD ID	TRX ID	GU GRP ID ↓	EXCH	CM ACCT
+	<input checked="" type="checkbox"/>	30041000060	44	12041000020	MGEX	777 S
+	<input checked="" type="checkbox"/>	30041000057	38	12041000019	MGEX	777 S

Give-up Groups

> Trade Date Clearing Member

<input type="checkbox"/>	GU GRP ID ↓	AVG PRC GRP ID	AVG PRC IND	CM ACCT	ACCT ID
<input type="checkbox"/>	12041000020		GUG	777 S	C1
<input type="checkbox"/>	12041000019		GUG	777 S	C1

Give-up Allocations

> Trade Date Clearing Member

<input type="checkbox"/>	ALLOC ID ↑	ALLOC SIDE	INSTRUMENT	BUY/SELL	QTY	PRICE	OPP CM	OPP R/S	OPP ACCT ID
<input type="checkbox"/>	12041000007	Give-up	W1223	Sell	5	9.60	888	S	TESTALLOCATI
<input type="checkbox"/>	12041000010	Give-up	W1223	Sell	10	9.80	888	S	TESTALLOCATI

6.5 Allocations Log

The Allocations – Allocation Log screen features a record of all the updates MCS has received to a Clearing Member’s give-ups and take-ups. This log includes information on the time of, the user responsible for, and the reason behind each log record.

Allocation Logs

> Clearing Member

ALLOC ID	LAST UPDATED TIME ↓	ALLOC TYPE	ALLOC SIDE	GU GRP ID	FIRM ALLOC ID	TRX ID	CM ACCT	ACCT ID	CL ORD ID
12041000017	2023-10-27 13:19:13	GUA	Take-up	12041000050		119	777 S	TAKEUP2	
12041000014	2023-10-27 13:19:13	GUA	Take-up	12041000049		117	777 S	TAKEUP1	
12041000017	2023-10-27 13:17:50	GUA	Take-up			119	777 S	TAKEUP2	

OPP CM	OPP R/S	OPP ACCT ID	OPP CTI	INSTRUMENT	BUY/SELL	PRICE	QTY	USER ID	STATUS	REASON
888				W1223	Buy	9.05	5	user	Accepted	Sub-allocated
888				W1223	Buy	9.05	10	user	Accepted	Sub-allocated
888				W1223	Buy	9.05	5	user	Accepted	Sub-allocation Cancelled

Log Reasons include:

- **Initiated**
- **Allocation Updated**
- **Accepted**
- **Rejected**
- **Cancelled**
- **Sub-allocated**
- **Sub-allocation Cancelled**
- **Reversal Initiated**
- **Reversal Rejected**
- **Reversal Cancelled**
- **Reversed**
- **System Closed** (if give-up not fully processed by MCS deadlines)

In addition, each record in the Allocations Log screen has links to the associated:

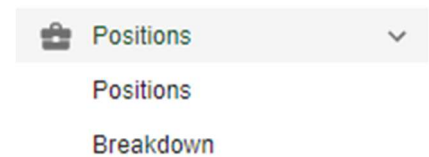
- Allocation, linked on the Allocation ID field, as found in the Give-up/Take-up Allocations screens
- Give-up group, linked on the Give-up Group ID, as found in the Give-up Groups screen

7. Position Management

MCS allows users to submit position reporting, query existing positions and view position data for instruments their Clearing Member is party to. MCS's calculation of position data is based on all received trades for the current business date, as well as prior gross position reporting.

7.1 Positions

The Positions screens allow a Clearing Member to view current position data in multiple formats.



7.1.1 Positions

Positions

> Business Date

BREAKDOWN													FILTERS	COLUMNS	REFRESH	
<input type="checkbox"/>	DATE	CM ACCT	INSTRUMENT	BEG LONG	BEG SHORT	BEG NET	BOUGHT	SOLD	CURR LONG	CURR SHORT	CURR NET	OUT OF BOUNDS				
<input type="checkbox"/>	2023-10-04	777 R	S1223	0	0	0	0	15	0	15	-15					
<input type="checkbox"/>	2023-10-04	777 S	W0324	0	0	0	10	0	10	0	10					
<input type="checkbox"/>	2023-10-04	777 S	W1223	0	0	0	5	0	5	0	5					

This screen displays all position data for a Clearing Member by Account Tand instrument. In this menu, users can view:

- **Beginning Long/Short/Net:** Clearing Member Account (CMA)'s positions at the start of a Trade Date
- **Bought/Sold Today:** Quantity of contracts a CMA traded on the current Trade Date
- **Current Long/Short/Net:** CMA's current positions, including adjustments from gross position reporting, calculated as:
 - **Current Long** = Beginning Long + Bought Today + Gross Position Adjustments
 - **Current Short** = Beginning Short + Sold Today + Gross Position Adjustments
 - **Current Net** = Current Long – Current Short
- **Extended Bought/Sold (hidden by default):** Quantity of contracts a CMA will trade on the next Trade Date (overnight)
- **Preview Long/Short/Net (hidden by default):** CMA's expected positions, calculated as:
 - **Preview Long** = Current Long + Bought Tomorrow (overnight trades)
 - **Preview Short** = Current Short + Sold Tomorrow (overnight trades)
 - **Preview Net** = Preview Long – Preview Short
- **Out of Bounds:** Alerts raised by differences in position reporting and MCS position data, including:

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

- **(Blank):** No issues
- **Offset / Reinstatement:** Long positions in gross position reporting are higher than expected in MCS records solely from trading activity. If intentional, no action necessary.
- **Warning:** Long positions in gross position reporting do not match Long Date position reporting. This MUST be corrected either in gross position reporting or by contacting MIAX Futures Clearing staff.

Positions

Business Date

BREAKDOWN

<input type="checkbox"/>	DATE	CM ACCT	INSTRUMENT	BEG LONG
<input checked="" type="checkbox"/>	2023-10-04	777 R	S1223	0
<input type="checkbox"/>	2023-10-04	777 S	W0324	0
<input type="checkbox"/>	2023-10-04	777 S	W1223	0

Selecting a specific instrument and account type also allows the user to transfer to the Positions Breakdown screen by clicking on the Breakdown button in the top left of the screen. The instrument field also serves as a hyperlink to the instrument record in the Reference Data – Instruments screen.

7.1.2 Position Breakdown

Position Breakdown

>

DATE	CM ACCT	INSTRUMENT	TRD SOURCE	TRD TYPE	BOUGHT QTY	SOLD QTY
2023-10-04	777 R	S1223	Manual	EFP	0	15
2023-10-04	777 S	W0324	Manual	EFP	10	0
2023-10-04	777 S	W1223	Manual	EFP	5	0

Position Breakdown displays the number of contracts a Clearing Member has bought and sold in an instrument, broken down by Trade Source and Trade Type, for the current Trade Date.

7.2 Position Reporting

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Clearing Members are required to submit daily gross position reporting after each Trade Date. Users will be able to submit, edit, and finalize their reporting from the Position Reporting screens.

Position Reporting ▼

Gross Positions

7.2.1 Gross Positions

The Position Reporting – Gross Positions screen lists every instrument for which a Clearing Member has positions, broken down by account type.

Gross Positions

> Clearing Member X

SAVE TABLE Gross Status: Uncompleted Expiring Options Status: Uncompleted F

DATE	CM ACCT	INSTRUMENT	LONG	SHORT	NET	OPT EXPIRY	SOURCE	OUT OF BOUNDS	ERRORS
2023-10-04	777 R	S1223	0	15	-15	×	GUI		
2023-10-04	777 S	W0324	10	0	10	×	GUI		
2023-10-04	777 S	W1223	5	0	5	×	GUI		

To offset or reinstate positions in any instrument, MCS only requires a user to report the updated long quantity for the instrument. The short quantity is calculated automatically by the system, using the net quantity as a constant.

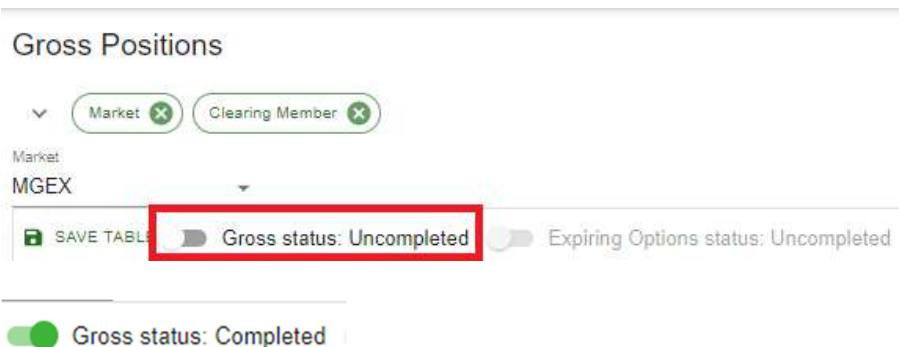
Users have the option of submitting gross position reports in one of two ways.

7.2.1.1 Reporting via Portal

1. Navigate to the **Position Reporting – Gross Positions** screen
2. **Select a position report. Verify:**
 - a. That the long quantity for each position is as expected
 - b. That the Errors column is blank
3. **If a position needs to be updated:**
 - a. **Verify the gross status** is set to Uncompleted
 - i. **Toggle the status if necessary**
 - b. Double click on the gray **Long Quantity** cell and edit the value



4. Repeat steps 1 and 2 until all reports are updated
5. Click **SAVE TABLE** in the top left of the screen to open the Save Changes pop-up menu
6. Click **SUBMIT**
7. Check for any **Errors/Out of Bounds exceptions** on submitted reports. Make any necessary corrections.
 - **(Blank):** No issues
 - **Offset / Reinstatement:** Long positions in gross position reporting are higher than expected in MCS records solely from trading activity. If intentional, no action necessary.
 - **Warning:** Long positions in gross position reporting do not match Long Date position reporting, **MUST** be corrected either in gross position reporting or by contacting MIAX Futures Clearing staff.
8. Select the **Market** to complete reporting for
9. Click the **Gross Status** toggle in the top left of the screen to mark that gross position reports have been finalized.



7.2.1.2 PCS File Upload

Users will have the option to upload a Position Change Submission (PCS) FixML file via SFTP to fulfill their gross position reporting obligations. The file specification is available at [MIAX Futures Interface Specifications | MIAX \(miaxglobal.com\)](https://www.miaxglobal.com)

7.2.2 End-of-Lifecycle Position Reports

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | [miaxglobal.com](https://www.miaxglobal.com)

For instruments at the end of their lifecycles, different position reports are expected to be submitted depending on the instrument type:

- Financially Settled Future
 - Expiring Position Report
- Physical, Compulsory Delivery Future
 - Expiring Position Report
 - Consolidated Expiring Position Report
- Physical, Intention-based Delivery Future
 - Long Date Position Report
- Option on Future
 - Expiring Options Report



7.2.2.1 General Position Reporting Instructions

The reports listed above use the same functions to submit, update, and delete reports, as well as marking reporting as complete. These functions are described below.

To Submit a Position Report:

1. **Verify the report status is set to Uncompleted** in the Reconciliation screen
 - a. **Toggle the status if necessary**
2. Navigate to the **Reporting** screen
3. Click **ADD** in the top left of the screen to open the Add Position pop-up menu
4. **Enter position details** in the appropriate fields
5. Click **SUBMIT**

To Update Position Reports:

1. Navigate to the **Reporting** screen
2. **Find the desired report to update**
3. **Double click on the gray cells within the report and edit the values** to update
4. **Repeat Steps 1 and 2 until all reports are updated**
5. Click **SAVE** in the top left of the screen to open the Save Changes pop-up menu

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

6. Click **SUBMIT**

To Delete a Position Report:

1. Navigate to the **Reporting** screen
2. **Locate and select the report** to delete
3. Click **DELETE** in the top left of the screen to open the Delete Position pop-up menu
4. Click **SUBMIT**

To mark the Position Reporting Status for your Clearing Member as Completed:

1. Navigate to the **Reconciliation** screen
2. **Verify that all records have a State or Reconciliation Result of SUCCESSFUL**
3. Click the **Position Reporting Status** toggle in the top left of the screen to update the status to **Completed**

NOTE: If any errors are encountered while performing these steps, MCS will display explanatory messages to help the user correct position reporting as necessary.

7.2.2.2 Expiring Positions Reporting

When a financially settled future has reached its expiration date, or a physical compulsory delivery future has reached its reporting period, users must submit expiring position reports in the Position Reporting – Expiring Positions – Reporting screen.

Add Expiring Position

Account ▼

Instrument ▼

Account ID

Long Quantity Short Quantity

SUBMIT **CANCEL**

7.2.2.3 Expiring Positions Reconciliation

The Position Reporting – Expiring Positions – Reconciliation screen reconciles the current MCS position data, as displayed in the Positions – Positions screen, with the quantities reported by the Clearing Member, as displayed in the Position Reporting – Expiring Positions – Reporting screen.

If any expiring instruments have not been reported on yet, or the reported quantities do not match MCS position data, the reconciliation result for these instruments will have a state of FAILED. Once reporting has been completed and matches MCS position data, the state will change to SUCCESSFUL.

Once all expiring position reports have been submitted and all reconciliation states are SUCCESSFUL, a user can finalize their reporting for the day by clicking the appropriate “AM status” and/or “PM status” toggle in the top left of the screen corresponding to the expiration time(s) established in the instruments’ contract specifications.

Expiring Position Reconciliation



7.2.2.4 Consolidated Expiring Positions Reporting

When a physical compulsory delivery instrument has reached its reporting period, users must submit consolidated expiring position reports for each Trade Account holding positions in the Position Reporting – Consolidated Positions – Reporting screen.

To report these positions for a Trade Account, a user must:

1. **Calculate the long and short quantities for all positions held by the Trade Account in the expiring physical compulsory delivery instruments**
2. **Identify which instrument is approved for consolidated expiring position reporting** for each group of expiring instruments sharing the same underlying asset
3. **Submit a Consolidated Expiring Position Report**, converting long and short position quantities to the equivalent number of contracts in the instrument from Step 2, and netting as applicable/desired.

Add Consolidated Expiring Position

Account ▼

Instrument ▼

Account ID

Long Quantity Short Quantity

SUBMIT CANCEL

7.2.2.5 Consolidated Expiring Positions Reconciliation

The Position Reporting – Expiring Positions – Reconciliation screen reconciles, for all physical compulsory delivery instruments being reported on, the net amount of the underlying asset calculated from expiring position reports (i.e. Unconsolidated Net Delivery Quantity) with the amount reported within consolidated expiring position reports (i.e. Consolidated Net Delivery Quantity).

Records in the Reconciliation screen will only appear after either type of expiring position report has been submitted for the physical compulsory delivery instrument.

If either position report has not yet been completed, or the quantities between the two reports do not match, the reconciliation result for these instruments will have a state of FAILED. Once reporting for both has been completed and the reported quantities match, the state will change to SUCCESSFUL.

In addition, the Consolidated Short and Long Delivery quantities are compared to the Pre-Validation and Post-Validation quantities respectively.

- The Pre-Validation check verifies whether a Clearing Member has pledged enough of the underlying asset to cover their short positions. **If the Pre-Validation (pledged) quantity is**
 - \geq the Consolidated Short Delivery Quantity, the **Pre-Validation Check = OK**
 - $<$ the Consolidated Short Delivery Quantity, the **Pre-Validation Check = Warning**
- The Post-Validation check verifies whether a Clearing Member has received the amount of the underlying asset equal to their long positions. **If the Post-Validation quantity is**
 - **Not populated** in the Delivery Accounts page, the **Post-Validation Check is left blank**
 - $=$ the Consolidated Long Delivery Quantity, the **Post-Validation Check = OK**
 - \neq the Consolidated Long Delivery Quantity, the **Post-Validation Check = Warning**

Once all consolidated expiring position reports have been submitted, and all reconciliation states are SUCCESSFUL, a user can finalize their reporting for the day by clicking the appropriate “AM status” and/or “PM status” toggle corresponding to the expiration time(s) established in the instruments’ contract specifications.

Consolidated Expiring Position Reconciliation

7.2.2.6 Long Date Position Reporting

When a physical intention-based delivery instrument enters its delivery period, Clearing Members with long positions will have to submit long date position reports to MCS from the Position Reporting – Long Date Positions – Reporting screen.

In addition to the aforementioned method of submitting position reports, users have the option to reuse a previous day’s long date position reporting. This process automatically removes any long date position reports that were previously assigned, accurately reflecting a Clearing Member’s remaining long date positions provided that no trade activity occurred in the reported instruments.

To Reuse a Previous Long Date Position Report:

1. Click **REUSE** to open the Reuse Long Date Position pop-up menu

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

2. **Select the account and instrument** for which long date position reporting will be reused
3. Click **SUBMIT**

7.2.2.7 Long Date Positions Reconciliation

The Long Date Positions – Reconciliation screen validates whether the quantities reported by the Clearing Member, as displayed in the Long Date Positions – Reporting screen, lie between the maximum and minimum acceptable long quantities, determined based on MCS position and trade data displayed in the Positions – Positions screen.

- Minimum Long Quantity = MAX (Beginning Long quantity - Today's Sold quantity (Total) + MAX (Today's Bought quantity (Total) - Beginning Short quantity; 0); 0)
- Maximum Long Quantity = Beginning Long Quantity + Today's Bought Quantity (Total) - Today's Bought Quantity (Delivery) - Today's Sold Quantity (Delivery)

If a Clearing Member is net long in an instrument, but has reported a lower quantity in their long date position reconciliation than in any expiring instruments have not been reported on yet, or the reported quantities are outside of the acceptable range, the reconciliation result for these instruments will have a state of FAILED. Once reporting has been completed and is within the acceptable range, the state will change to SUCCESSFUL.

Once all long date position reports have been submitted, and all reconciliation states are SUCCESSFUL, a user can finalize their reporting for the day by **toggleing the status to Completed**.

Long Date Position Reconciliation



7.2.2.8 Expiring Options Position Reporting

When an option contract has reached its expiration date, users must report their current held positions in the Position Reporting – Gross Positions screen. All expiring option instruments requiring reporting will be identified with a green check in the EXP OPTION column.

Gross Positions

> Clearing Member ✕

SAVE TABLE Gross status: Uncompleted Expiring Options status: Uncompleted

DATE	CM ACCT	INSTRUMENT	CURR LONG	CURR SHORT	CURR NET	EXP OPTION ↓
2023-03-02	365 S	WC0323C8	7	0	7	✓
2023-03-02	365 S	WC0323C8	15	0	15	✓

Once positions for all expiring options have been submitted, a user can finalize their reporting for the day by **selecting the Market** to finalize reporting for, followed by **toggling the Expiring Options status to Completed**.

Gross Positions

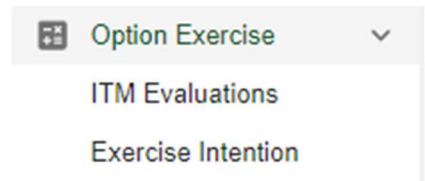
> Clearing Member ✕

SAVE TABLE Gross status: Uncompleted Expiring Options status: Uncompleted

8. Option Exercise

8.1 Early Option Exercise

To complete an early exercise of an American-style option, Clearing Members must submit exercise intentions from the Positions - Exercise Intentions screen.



To Add an Exercise Intention:

1. Navigate to the **Option Exercise – Exercise Intention** screen
2. Click **ADD** to open the Add Exercise Intention pop-up menu

3. **Complete all fields** with information on the option to be exercised
4. Click **SUBMIT**

If any errors are made an exercise can be selected to “UPDATE,” or “DELETE” and can be re-entered if necessary.

NOTE: Updates and Deletions can only be made on the same Trade Date that the original intention was received.

To Update an Exercise Intention:

1. Navigate to the **Option Exercise – Exercise Intentions** screen
2. **Locate and select the exercise intention** to modify

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

3. Click **UPDATE** to open the Update Exercise Intention pop-up menu
4. **Edit any updatable fields as desired**
5. Click **SUBMIT**

To Delete an Exercise Intention:

1. Navigate to the **Option Exercise – Exercise Intentions** screen
2. **Locate and select the exercise intention** to delete
3. Click **DELETE** to open the Delete Exercise Intention pop-up menu
4. Click **SUBMIT**

8.2 Option Expiration

On the expiration date of an option, MCS will run an In the Money (ITM) Evaluation, taking the settlement price of the underlying future and calculating which options are in, at, or out of the money compared to the received settlement price.

The results of this calculation are then published in the ITM Evaluation screen.

ITM Evaluation

Business Date ✕

📄 EXPORT 🔄 REFRESH

Business Date	Instrument	Evaluation Result	Underlying Price	Market
2022-11-16	WC_12_22_C_9.8	ATM	9.8	MGEX
2022-11-16	WC_12_22_C_10	OTM	9.8	MGEX
2022-11-16	WC_12_22_C_9.6	ITM	9.8	MGEX
2022-11-16	WP_12_22_P_10	ITM	9.8	MGEX
2022-11-16	WP_12_22_P_9.6	OTM	9.8	MGEX
2022-11-16	WP_12_22_P_9.8	ATM	9.8	MGEX

MCS will default to exercising all options that are In the Money (ITM), and abandoning all At the Money (ATM) and Out of the Money (OTM) options.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Users will only be able to submit exercise intentions for expiring options that supersede this default (i.e., exercising ATM or OTM options, and/or abandoning ITM options). **Exercise intentions that match what MCS is prepared to submit by default will not be accepted to prevent duplicate entries.**

8.3 Exercise Generated Trades

As part of exercising an option, MCS automatically generates trades in the underlying future and offsetting trades closing out the exercised option. Except where pulled from an exercise intention, the Account ID field on these trades is left blank.

Trades

>
Clearing Date ✕
Trade Date ✕
Clearing Member ✕

TRD ID	TRX ID	CL MEMBER...	ACCT ID	CL CODE	MM	YY	STRIKE	TRD SIDE	QTY	PRICE	TRD TYPE
40161000001	1	888 S	Test Account 1	WC	12	22	9.6	Sell	5	0.00	Option exercise
40161000002	3	888 S	Test Account 1	W	12	22		Buy	5	9.60	Option exercise
40161000003	2	888 R		WC	12	22	9.6	Buy	5	0.00	Option exercise
40161000004	4	888 R		W	12	22		Sell	5	9.60	Option exercise

It is the obligation of each Clearing Member to update the new futures trades with the correct Account ID(s), and if necessary to split the trades between their customers, by the end of the Clearing Date on which the option exercise took place. The schedule of deadlines can be found in Resolution 2101.00.C of the MIAX Futures rulebook, hosted on the MIAX Futures website.

9. Settlements

After each Intraday, End-of-Day, and Delivery settlement run, the resulting credits and debits to a Clearing Member’s Accounts are searchable in the Settlement screens, broken down in multiple formats to assist users in monitoring their financial activities.

9.1 Settlement Runs

Settlement Runs

> Business Date

SETTLEMENT INSTRUCTIONS						
<input type="checkbox"/>	Date	Sequence Num... ↑	Run Type	Currency	Market	Trigger Timestamp
<input type="checkbox"/>	2022-09-07	1	Intraday	USD		2022-09-29T16:30:08.239Z
<input type="checkbox"/>	2022-09-07	2	Delivery	USD		2022-09-29T18:14:21.691Z

This screen displays a record of all settlement runs that have been executed on the current Clearing Date, storing information on the run type (i.e., Intraday, End-of-Day, or Delivery), market, and the time that the settlement run was triggered.

To see additional information on a Settlement Run:

1. Select the desired settlement run
2. Click **SETTLEMENT INSTRUCTIONS** to view all associated records in the Settlements – Instructions screen

9.2 Settlement Instructions

Settlement Instructions

> Business Date Clearing Member

SETTLEMENT BREAKDOWN					EXPORT	REFRESH
<input type="checkbox"/>	Settlement Run ID ↑	Clearing Member Account	Amount	Currency		
<input type="checkbox"/>	2022-09-07 - 1	888 R	-36,600.00	USD		
<input type="checkbox"/>	2022-09-07 - 2	888 R	259,360.70	USD		

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

This screen displays the net credits and debits from each settlement run, on each of a Clearing Member's Accounts. These credits/debits serve as the instructions submitted to the Clearing Member's settlement bank as part of the Mark to Market process.

To see additional information on a Settlement Instruction:

1. **Select the desired settlement instruction**
2. Click **SETTLEMENT BREAKDOWN** to view all associated records in the Settlements – Breakdown screen

9.3 Settlement Breakdown

Settlement Breakdown

> Business Date

SETTLEMENT POSITION							EXPORT	REFRESH
<input type="checkbox"/>	Settlement Run...	Clearing Member A...	Reason	Market	Amount	Currency		
<input type="checkbox"/>	2022-09-07 - 1	888 R	Position Variation	MGEX	-5,000.00	USD		
<input type="checkbox"/>	2022-09-07 - 1	888 R	Trade Variation	MGEX	-31,600.00	USD		
<input type="checkbox"/>	2022-09-07 - 2	888 R	Delivery	MGEX	259,360.70	USD		

This screen displays the results of each settlement run, broken down by settlement run, Clearing Member Account, reason for the settlement calculation, and market.

Reasons for settlement calculations include:

- **Position Variation**
- **Trade Variation**
- **Option Premium**
- **Option Exercise**
- **Expiration**
- **Margin Excess/Deficit**
- **Delivery**
- **Fee**

To see additional information on a Settlement Breakdown:

1. **Select the desired settlement breakdown**

2. Click **SETTLEMENT POSITION** to view all associated records in the Settlements – Positions screen

9.4 Settlement Positions

Settlement Positions

> Currency Clearing Member Business Date

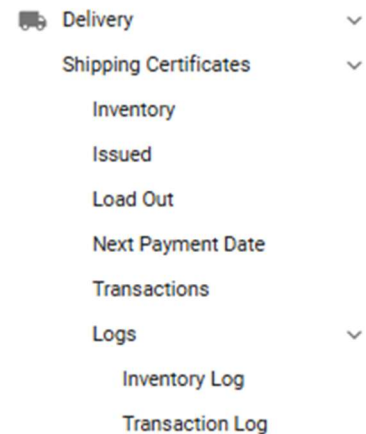
Settlement Run ID ↑	Clearing Member Account	Currency	Reason	Instrument	Amount
2022-09-07 - 1	888 R	USD	Position Variation	S_10_22	0.00
2022-09-07 - 1	888 R	USD	Trade Variation	S_10_22	-21,600.00
2022-09-07 - 1	888 R	USD	Position Variation	S_12_22	0.00
2022-09-07 - 1	888 R	USD	Trade Variation	S_12_22	-24,000.00
2022-09-07 - 1	888 R	USD	Position Variation	W_12_22	5,000.00
2022-09-07 - 1	888 R	USD	Trade Variation	W_12_22	9,000.00
2022-09-07 - 1	888 R	USD	Position Variation	W_09_22	-10,000.00
2022-09-07 - 1	888 R	USD	Trade Variation	W_09_22	5,000.00
2022-09-07 - 2	888 R	USD	Delivery	W_09_22	259,360.70

EXPORT REFRESH

This screen displays in-depth results of each settlement run, broken down by each instrument that a Clearing Member has positions in.

10. Shipping Certificate Management

Beginning with the September 2026 delivery period, Shipping Certificates will replace warehouse receipts as the underlying delivery instrument used to make delivery against the Minneapolis Hard Red Spring Wheat futures contract. Shipping Certificates will be registered with MIAX Futures and Clearing Members will interact with MCS to record, track ownership, and facilitate the delivery and transfer of these shipping certificates.



10.1 Viewing Shipping Certificates

Clearing Members have access to a number of screens to help them keep track of the Shipping Certificates that they have on hand, have issued, are transferring, or are loading out.

10.1.1 Shipping Certificates Inventory

Shipping Certificate Inventory

> Exclude Inactive

	ADD	UPDATE	UPDATE OWNERSHIP	ISSUE	INITIATE LOAD OUT	CANCEL	DELETE	ADD DELIVERY INTENTION	INITIATE TRANSFER						
<input type="checkbox"/>	INVENTORY ID	CERT NO	WHSE	ASSET	CONTRACT SPECIFIC ATTR	ISSUE DATE	CM ACCT	START DATE	END DATE	ACCT ID	ACCT NAME				
<input type="checkbox"/>	260410000001	32919	DB1	HRSW	Show 10 Attributes		999 S	2026-04-10		TEST	Test Name				
<input type="checkbox"/>	260410000002	32920	DB1	HRSW	Show 10 Attributes		999 S	2026-04-10		TEST	Test Name				

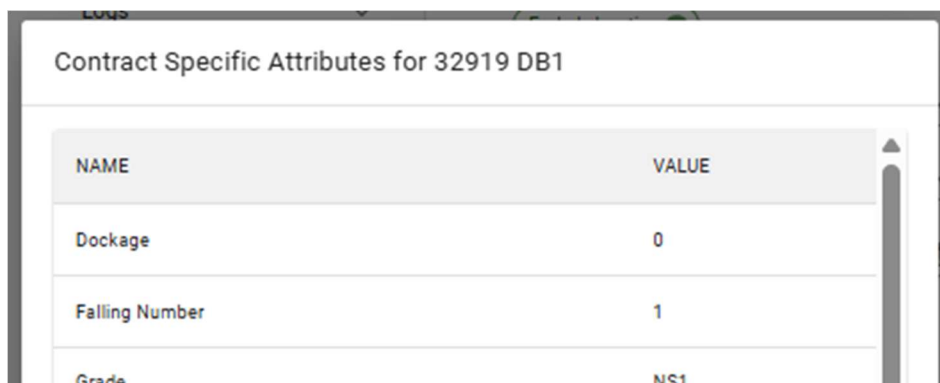
The Delivery – Shipping Certificates – Inventory screen gives Clearing Members the most complete view of their currently held Shipping Certificates, including issued and non-issued Certificates, as well as Certificates in the process of being transferred, delivered, or loaded out.

Available Shipping Certificate Inventory Actions

- **Add:** Register new Shipping Certificate(s) in MCS. This process is very similar to the pre-existing process to add warehouse receipt(s).
- **Update:** Update/Correct Shipping Certificate details.
 - NOTE: Only available to the Issuing Clearing Member prior to being Issued, Delivered, or Transferred.
- **Update Ownership** – Add or update Account ID and Account Name.
 - NOTE: Account ID is required prior to Delivery and Transfers.

- **Issue** – Formally issue Shipping Certificate(s) moving it to an Active status and beginning storage fee accrual, etc. Clearing Members may register Shipping Certificates on behalf of regular elevators between the hours of 7:00 am and 4:00 pm CT.
 - NOTE: Issuance is also completed automatically as part of a delivery or transfer transaction.
- **Initiate Load-out** – Initiate joint notifications to respective Issuing Clearing Member(s) and current Shipping Certificate controller to begin the load-out process. Once Initiated, load-out can be managed in the Delivery – Shipping Certificates – Load-Out screen
- **Cancel** – Cancel active Shipping Certificate(s).
 - NOTE: Only available to Issuing Clearing Member who is also the current controller of the Shipping Certificate(s)
- **Delete** – Delete registered Shipping Certificate(s) in the event of error.
 - NOTE: Only available to Issuing Clearing Member prior to being Issued, Delivered, or Transferred.
- **Add Delivery Intention** – Submit Delivery Intention(s) during a delivery cycle directly from the Shipping Certificate Inventory screen using this streamlined process. Delivery intention notice deadlines are defined in Resolution 2101.00.C.
 - NOTE: Delivery intentions may also be submitted via the Delivery – Delivery Intentions screen.
- **Initiate Transfer** – Initiate non-delivery transfer of Shipping Certificate(s) to a counterparty member. Once initiated, Transfer Transactions can be viewed/managed in the Delivery – Shipping Certificates – Transactions screen.

To view the Contract Specific Attributes on any individual Certificate, click on the “Show Attributes” link for that record to open the Contract Specific Attributes pop-up display



The screenshot shows a pop-up window titled "Contract Specific Attributes for 32919 DB1". It contains a table with two columns: "NAME" and "VALUE".

NAME	VALUE
Dockage	0
Falling Number	1
Grade	NS1

By default, only active Shipping Certificates are displayed in the Delivery – Shipping Certificates – Inventory screen. This can be toggled from the query fields at the top of the screen.

Shipping Certificate Inventory

▼ Exclude Inactive ✕

Exclude Inactive

Shipping Certificates are identifiable by their inventory id and by their certificate number. In the course of a Shipping Certificate going through a transfer or delivery, the certificate number will remain consistent, while the inventory id will update to a unique value each time the certificate changes hands.

10.1.2 Issued Shipping Certificates

Issued Shipping Certificates

> Issuing Clearing Member ✕

<input type="checkbox"/>	INVENTORY ID	CERT NO	WHSE	ASSET	CONTRACT SPECIFIC ATTR	REGISTERED DATE	ISSUE DATE	ISSUING CM
<input type="checkbox"/>	260304000001	27594	HH2	HRSW	Show 10 Attributes	2026-03-04	2026-03-04	999
<input type="checkbox"/>	260304000002	27595	HH2	HRSW	Show 10 Attributes	2026-03-04	2026-03-04	999

Clearing Members can view all currently active Shipping Certificates that they have issued in Delivery – Shipping Certificates – Issued. As long as the Certificates have not been cancelled or loaded out, they will appear on this screen.

10.1.3 Loaded Out Shipping Certificates

Loaded Out Shipping Certificates

> No active search criteria

<input checked="" type="checkbox"/>	CERT NO	WHSE	ASSET	CONTRACT SPECIFIC ATTR	REGISTERED DATE	ISSUE DATE	ISSUING CM	CM OWNER	INITIATED DATE
<input type="checkbox"/>	32920	DB1	HRSW	Show 10 Attributes	2026-04-10	2026-04-14	999	999	2026-04-14
<input type="checkbox"/>	27594	HH2	HRSW	Show 10 Attributes	2026-03-04	2026-03-04	999	999	

Clearing Members can view and manage Shipping Certificates that have had a load-out request initiated from Delivery – Shipping Certificates – Load Out.

Available Load-Out Actions

- **Confirm:** Finalize the load-out process and cancel the outstanding Shipping Certificate(s).
 - NOTE: Only available to Issuing Clearing Member following the initiation of a load-out request by the current Shipping Certificate Controller.
- **Cancel:** Cancel the load-out request if it is no longer needed or was initiated in error. Applicable Shipping Certificate(s) will remain active in the current controller’s inventory.
 - NOTE: Only available to Shipping Certificate Controller.
- **Reject:** Reject the load-out request if it is no longer needed or was initiated in error. Applicable Shipping Certificate(s) will remain active in the current controller’s inventory.
 - NOTE: Only available to Issuing Clearing Member.

10.1.4 Shipping Certificate Transactions

Shipping Certificate Transactions

Clearing Member ✕

✓ ACCEPT TRANSFER
✕ CANCEL TRANSFER
⊘ REJECT TRANSFER
⊕ UPDATE OPPOSITE CM ACCOUNT

<input type="checkbox"/>	SIDE ID	TXN ID	TXN TYPE	SIDE	STATUS ↓	INVENTORY	QTY	ASSIGNMENT ID
<input type="checkbox"/>	260414000001-OUT-0	260414000001	Transfer	Out	Pending	Show 1 ID	1	
<input type="checkbox"/>	260304000001-OUT-0	260304000001	Transfer	Out	Cancelled	Show 100 IDs	100	

All Shipping Certificate transactions, including transfers and delivery assignments, are viewable in Delivery – Shipping Certificates – Transactions. Clearing Members are also able to manage transfers from this screen, while delivery transactions are only included for informational purposes.

Available Transaction Actions

- **Accept Transfer:** Accept an incoming transfer of Shipping Certificate(s) from a counterparty and add the Shipping Certificate(s) to the new controller’s current inventory.
 - NOTE: Only available to the Clearing Member in the “IN” side of the transfer.
- **Cancel Transfer:** Cancel an outgoing transfer of Shipping Certificate(s). The Shipping Certificate(s) will remain in the controller’s current inventory.
 - NOTE: Only available to the Clearing Member in the “OUT” side of the transfer prior to it being accepted.
- **Reject Transfer:** Reject an incoming transfer of Shipping Certificate(s). The Shipping Certificate(s) will remain in the controller’s current inventory and not be transferred.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

- NOTE: Only available to the Clearing Member in the “IN” side of the transfer prior to it being accepted.
- **Update Opposite Clearing Member Account:** Update the counterparty information on an outgoing transfer of Shipping Certificate(s) in the event of error or new directives.
 - NOTE: Only available to the Clearing Member in the “OUT” side of the transfer prior to it being accepted.

10.1.5 Shipping Certificate and Transaction Logs

The Delivery – Shipping Certificates – Logs – Inventory Log and Delivery – Shipping Certificates – Logs – Transactions Log screens feature a record of all the updates MCS has received to Shipping Certificates and Shipping Certificate Transactions, respectively. This log includes information on the time of, the user responsible for, and the reason behind each log record.

Shipping Certificate Inventory Log

> No active search criteria

<input type="checkbox"/>	INVENTORY ID	TIMESTAMP	CERT NO	WHSE	ASSET	CONTRACT SPECIFIC ATTR	ISSUE DATE	CM ACCT	ACTION	STATUS
<input type="checkbox"/>	260410000002	2026-04-14 12:30:56	32920	DB1	HRSW	Show 10 Attributes	2026-04-14	999 S	Load Out Initiated	Pending
<input type="checkbox"/>	260410000002	2026-04-14 12:30:52	32920	DB1	HRSW	Show 10 Attributes	2026-04-14	999 S	Certificate Issued	Active
<input type="checkbox"/>	260410000001	2026-04-14 10:39:38	32919	DB1	HRSW	Show 10 Attributes		999 S	Transaction Created	Pending
<input type="checkbox"/>	260410000005	2026-04-10 15:55:34	32923	DB1	HRSW	Show 10 Attributes		999 S	Created	New

Shipping Certificate Transaction Log

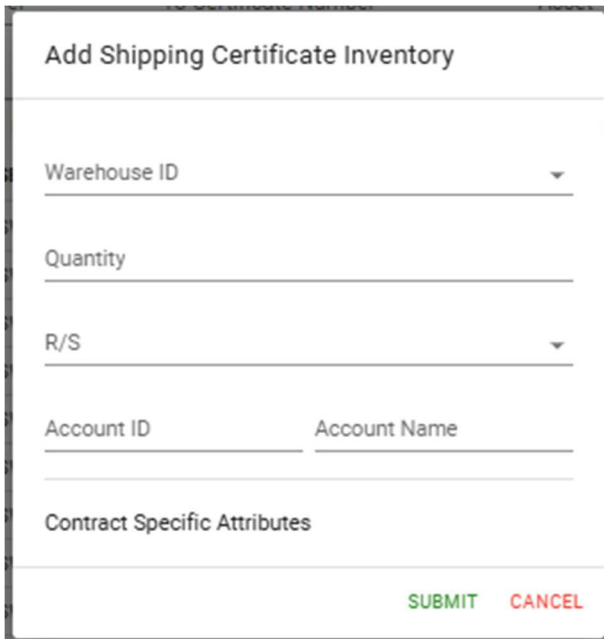
> Clearing Member

<input type="checkbox"/>	SIDE ID	TIMESTAMP	TXN ID	TXN TYPE	SIDE	STATUS	INVENTORY	QTY	ASSIGNMENT ID	MARKET	WHSE	ASSET	CM ACCT
<input type="checkbox"/>	260304000001-OUT-0	2026-03-04 11:31:42	260304000001	Transfer	Out	Pending	Show 100 IDs	100			HH2	HRSW	999 R
<input type="checkbox"/>	260304000001-OUT-0	2026-03-04 11:32:18	260304000001	Transfer	Out	Cancelled	Show 100 IDs	100			HH2	HRSW	999 R

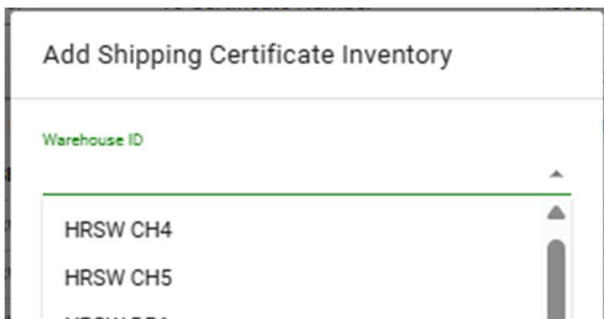
10.2 Add a Shipping Certificate

To Add a Shipping Certificate:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. Click **ADD** in the top left of the screen to open the Add Shipping Certificate Inventory pop-up menu



3. **Select the appropriate Warehouse ID** from the drop-down list. Once selected, the pop-up menu updates with fields corresponding to the Contract Specific Attributes for products stored at this warehouse.



- a. The Warehouse ID field references MCS’s list of Warehouses for each type of asset, as stored in the Delivery – Reference Data – Warehouses screen. Query this screen to identify which Warehouse ID to input.
4. **Complete all fields** to match the Shipping Certificate to be entered, either by selecting an option from the drop-down list or, if none appear, completing the field manually

Add Shipping Certificate Inventory

Warehouse ID
HRSW GM3

Quantity

R/S

Account ID Account Name

Contract Specific Attributes

Falling Number

Grade

Dockage

Load out rate

Moisture

Protein

Test Weight

Vomitoxin

Storage and Insurance Rate
0.002333

SUBMIT **CANCEL**

NOTE: When selecting from a drop-down list, users can enter the name of the option they are looking for to narrow the list, but must ultimately select the option from the list

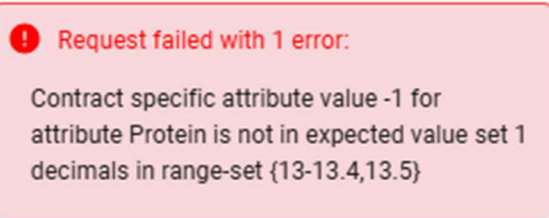
5. Click **SUBMIT**, and review any received error messages

- a. **Enter Contract Specific Attributes for any missing required fields.** These will appear highlighted in red with an error message, as in the example below

Dockage

Required field

- b. **Correct any fields with inappropriate data types or values.** Any fields not flagged earlier will display an error message at the bottom of the pop-up menu



10.3 Update a Shipping Certificate

If no actions have been taken on a Shipping Certificate after having been entered, Clearing Members will be able to update the Certificate's Contract Specific Attributes.

NOTE: Once issued, or initiated for delivery, transfer, or load-out, updates to Contract Specific Attributes will no longer be accepted.

10.3.1 Update Individually

To Update a Shipping Certificate:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate** to update
3. Click **UPDATE** in the top left of the screen to open the Update Shipping Certificate Information pop-up menu
4. **Edit any updatable fields as desired**

Update Shipping Certificate Information

INVENTORY ID

260410000001

Contract Specific Attributes

Moisture
13

Grade
NS1

Dockage
0

Penetration

5. Click **SUBMIT**

10.3.2 Mass Update

The mass update tool allows users to update multiple Shipping Certificates at once, as long as the Certificates are in an updatable state.

To Mass Update Shipping Certificates:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificates** to update
3. Click **UPDATE** in the top left of the screen to open the Mass Update Shipping Certificate Information pop-up menu

Mass Update Shipping Certificates Information

INVENTORY ID	Contract Specific Attributes
251208000016	<input type="checkbox"/> Grade
251210000002	<input type="checkbox"/> Dockage
	<input type="checkbox"/> Load out rate

4. **Select any Contract Specific Attributes** that are intended to be updated
5. **Enter updated values** for selected fields

Mass Update Shipping Certificates Information

INVENTORY ID	Contract Specific Attributes
251208000016	<input type="checkbox"/> Grade
251210000002	<input checked="" type="checkbox"/> Dockage 0.11

6. **Click SUBMIT**

10.4 Update Ownership Information

Prior to initiating a transfer, delivery, or load-out of a Shipping Certificate, Clearing Members will be able to update the Certificate’s Account ID and Account Name information.

NOTE: The steps are the same, whether updating ownership information for one or multiple certificates

To Update the Ownership Information on one or more Shipping Certificates:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate(s)** to update
3. Click **UPDATE OWNERSHIP** in the top left of the screen to open the Update Shipping Certificate Ownership pop-up menu

Update Shipping Certificate Ownership

INVENTORY ID

25121000002

Account ID _____ Account Name _____

SUBMIT CANCEL

4. Enter updated values for selected fields
5. Click **SUBMIT**

10.5 Delete a Shipping Certificate

If a Shipping Certificate is inaccurately or mistakenly entered, a Clearing Member user can delete the certificate prior to issuing or initiating a delivery or transfer.

To Delete one or more Shipping Certificates:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate(s)** to delete
3. Click **DELETE**
4. Click **SUBMIT**

10.6 Issue a Shipping Certificate

Once all information has been confirmed for accuracy on a Clearing Member's Shipping Certificate(s), a Clearing Member user can issue the Certificate(s), updating their status to active and beginning the accrual of storage fees in MCS.

To Issue one or more Shipping Certificates:

5. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
6. **Locate and select the Shipping Certificate(s)** to issue
7. Click **ISSUE**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

8. Click **SUBMIT**

NOTE: Any Shipping Certificate that are transferred or delivered are automatically issued by MCS.

10.7 Storage Fee Accrual and Payment

Once issued, a Shipping Certificate will begin to accrue storage fees, calculated as:

$$\text{Storage Fee} = \text{MIN}(\text{Number of Business Days Stored, Number of Business Days Since Last Storage Payment}) * \text{Storage Rate} * \text{Delivery Unit as stored in Reference Data} - \text{Asset}$$

NOTE: On a transfer, delivery, or load-out, a Clearing Member will no longer accrue storage fees, only having to pay for the number of business days held since the last storage payment, up to the Ownership End Date

Storage payments will be automatically processed on a regularly scheduled monthly basis, with the nearest storage payment date being searchable in the Delivery – Shipping Certificates – Next Payment Date screen.

Next Payment Date For Storage Fee

> No active search criteria

+ SET		- DELETE	
<input type="checkbox"/>	ASSET	NEXT PAYMENT DATE	
<input type="checkbox"/>	HRSW	2026-03-13	

Note: Storage fee payments to regular facilities will be paid to the corresponding issuing Clearing Member for the Shipping Certificate(s).

10.8 Cancel an Issued Shipping Certificate Inventory

If a shipping certificate inventory has been issued, but is not part of any transfer or delivery process, it may be canceled when in the control of the issuing Clearing Member.

To Cancel one or more Shipping Certificate Inventories:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate Inventories** to cancel
3. Click **CANCEL**
4. Click **SUBMIT**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

NOTE: Only available to Issuing Clearing Member who is also the current controller of the Shipping Certificate(s)

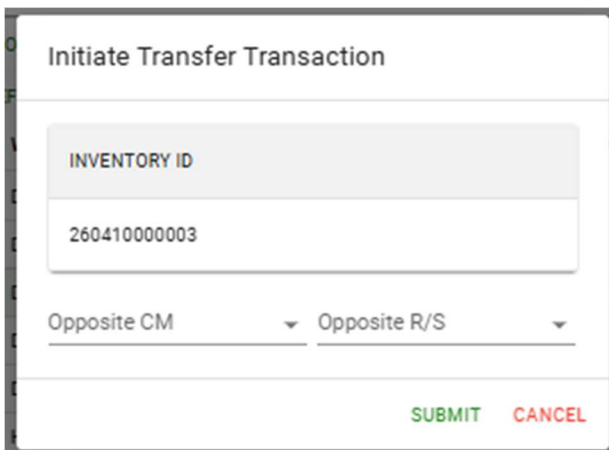
10.9 Transfer a Shipping Certificate

Clearing Members have the option to exchange shipping certificates outside of regular delivery, by initiating a transfer from the Delivery – Shipping Certificates – Inventory screen, and having the counterparty accept the transaction from the Delivery – Shipping Certificates – Transactions screen.

10.9.1 Initiate a Transfer

To Initiate a Transfer on one or more Shipping Certificates:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate(s)** to transfer
3. Click **INITIATE TRANSFER**
4. **Enter the desired Clearing Member and Account type to transfer to**



5. Click **SUBMIT**

10.9.2 Update a Transfer

If the recipient was entered incorrectly when initiating the transfer, a Clearing Member user can update the Clearing Member or Account type on the transfer, so long as the counterparty has not yet accepted or rejected the transfer.

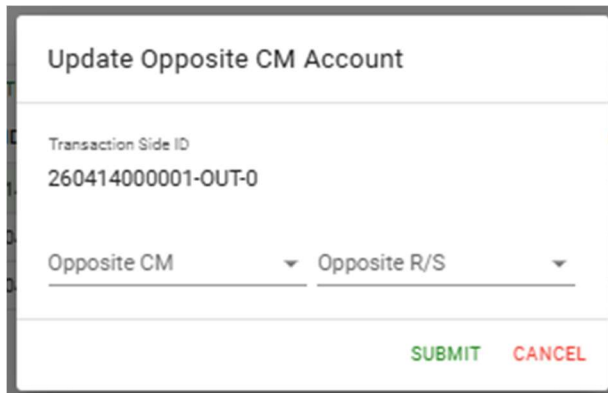
To Update a Transfer Transaction:

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

1. **Navigate to Delivery – Shipping Certificates – Transactions**
2. **Locate and select the Transaction to update**
3. Click **UPDATE OPPOSITE CM ACCOUNT**
4. **Update the Clearing Member and Account type as desired**

A screenshot of a web form titled "Update Opposite CM Account". The form has a white background and a thin border. At the top, the title "Update Opposite CM Account" is displayed. Below the title, there is a label "Transaction Side ID" followed by the value "260414000001-OUT-0". Underneath, there are two dropdown menus: "Opposite CM" and "Opposite R/S", each with a downward-pointing arrow. At the bottom right of the form, there are two buttons: "SUBMIT" in green text and "CANCEL" in red text.

5. Click **SUBMIT**

10.9.3 Cancelling a Transfer

If the wrong Shipping Certificate was selected when initiating the transfer, or for any other reason the Clearing Member no longer wants to go through with the transfer, a Clearing Member user can cancel the transfer, so long as the counterparty has not yet accepted or rejected the transfer.

To Cancel a Transfer Transaction:

1. **Navigate to Delivery – Shipping Certificates – Transactions**
2. **Locate and select the Transaction to cancel**
3. Click **CANCEL TRANSFER**
4. Click **SUBMIT**

10.9.4 Accepting or Rejecting a Transfer

Upon receiving a transfer transaction request from a counterparty, a Clearing Member will be able to see the transaction in their Delivery – Shipping Certificates – Transactions screen with SIDE set to In and STATUS set to Pending. Depending on if the transaction was expected, and if all the information looks correct, Clearing Member users can accept or reject these pending transactions as desired.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

To Accept or Reject a Transfer Transaction:

1. **Navigate to Delivery – Shipping Certificates – Transactions**
2. **Locate and select the Pending Transaction**
3. Click **ACCEPT TRANSFER** or **REJECT TRANSFER** as desired
4. Click **SUBMIT**

10.10 Initiating a Load-out

If a Clearing Member or their client wishes to load-out the underlying asset for a given shipping certificate, a Clearing Member user may follow the steps below to initiate the closing of the associated shipping certificate inventories.

NOTE: The completion of commodity load-out (including payment of any storage accrued since the last payment date and settlement of any load-out fees) will continue to be conducted by respective Clearing Members and/or regular facilities. The load-out process in MCS initiates communication and processes the closure of Shipping Certificate(s) in MCS at the end of their lifecycle.

To Initiate Load-out on one or more Shipping Certificates:

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificate(s)** to load out
3. Click **INITIATE LOAD OUT**
4. Click **SUBMIT**

Once load out has been initiated, the issuing Clearing Member will have to confirm the load-out request before the process can be completed.

If a Clearing Member issued a load-out request in error or is no longer intending to load-out, and the request has not yet been confirmed or rejected by the issuing Clearing Member, a Clearing Member user can cancel a load-out request by following the below steps.

To Cancel a Load-out Request on one or more Shipping Certificates:


1. Navigate to the **Delivery – Shipping Certificates – Load Out** screen
2. **Locate and select the Shipping Certificate Load-out(s) to cancel**
3. Click **CANCEL**

4. Click **SUBMIT**

10.11 Approving Load Out Requests

Issuing Clearing Members who have received load out requests against shipping certificates that they have issued, must approve the load request on the same day that the load out request was initiated. You may approve the load out requests for these inventories from the Delivery – Shipping Certificates – Load Out screen.

Loaded Out Shipping Certificates

> Issuing Member 

<input type="checkbox"/>	CERT NO	WHSE	ASSET	CONTRACT SPECIFIC ATTR	REGISTERED DATE	ISSUE DATE	ISSUING CM	CM OWNER	INITIATED DATE	UNPAID STORAGE FEE	LAST ACTION	STATUS
<input type="checkbox"/>	8390	GM3	HRSW	Show 9 Attributes	2026-03-04	2026-03-04	999	999	2026-04-14	0	Load Out Initiated	Pending
<input type="checkbox"/>	8391	GM3	HRSW	Show 9 Attributes	2026-03-04	2026-03-04	999	999		0	Load Out Cancelled	Active

The issuing Clearing Member, as the originator of the Shipping Certificate, must confirm the load-out request before the Certificate is able to be cancelled.

To Confirm a Load-out Request:

1. Navigate to the **Delivery – Shipping Certificates – Load Out** screen
2. **Locate and select the Shipping Certificate Load-out(s) to update**
3. Click **CONFIRM** or **REJECT** as desired
4. Click **SUBMIT**

11. Delivery

11.1 Shipping Certificates

During a physical intention-based delivery instrument’s delivery period, Clearing Members must submit or update their Shipping Certificates in the Delivery – Shipping Certificates screen for all units of the underlying asset that they intend to deliver. For more detailed instructions, see section 10.2.

11.2 Delivery Intentions

Delivery Intentions

> Submission Date

	NOTICE DATE	INVENTORY ID	RECEIPT/CERT ...	CM ACCT	INSTRUMENT	ACCT ID	CTI	QTY	REDELIV	SUBM DATE	ASSIGNED ...	UNASSIGN...
<input type="checkbox"/>	2024-05-10	260407000001	32904	141 R	W0525	132	2	1	Original ...	2024-05-09	1	0
<input type="checkbox"/>	2024-05-10	260407000002	32905	141 R	W0525	132	2	1	Original ...	2024-05-09	1	0
<input type="checkbox"/>	2024-05-10	260407000003	32906	141 R	W0525	132	2	1	Original ...	2024-05-09	1	0

Clearing Members with short positions in any physical intention-based delivery futures (e.g., Hard Red Spring Wheat Futures) will have to submit delivery intentions to MCS at some point during the instrument’s delivery reporting period.

To Submit a Delivery Intention:

1. Navigate to the **Delivery – Delivery Intentions** screen
2. Click **ADD** in the top left of the screen to open the Add Delivery Intention – Shipping Certificate pop-up menu

3. Enter the instrument to be delivered, followed by the range of Certificate numbers to be delivered
4. Click **SUBMIT**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Alternative Method:

You may also make delivery intentions directly from the Shipping Certificate Inventory screen by selecting the applicable shipping certificates in the Clearing Member's inventory and selecting "Add Delivery Intention"

1. Navigate to the **Delivery – Shipping Certificates – Inventory** screen
2. **Locate and select the Shipping Certificates to be added for delivery intention**
3. Select **ADD DELIVERY INTENTION** above table

Shipping Certificate Inventory

Exclude Inactive Clearing Member Account

<input type="checkbox"/>	INVENTORY ID	CERT NO	CONTRACT SPECIFIC ATTR	REGISTERED DATE	ISSUE DATE	ISSUING CM	CM ACCT	START DATE	END DATE	ACCT ID	ACCT NAME
<input checked="" type="checkbox"/>	260410000004	32922	Show 10 Attributes	2026-04-10		999	999 S	2026-04-10		TEST	Test Name
<input type="checkbox"/>	260410000005	32923	Show 10 Attributes	2026-04-10		999	999 S	2026-04-10		TEST	Test Name

Add Delivery Intention with Shipping Certificate

INVENTORY ID

260113000001

Instrument

W1225

4. **Select applicable instrument on pop up**
5. Click **SUBMIT**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

To Update Delivery Intentions:

1. Navigate to the **Delivery – Delivery Intentions** screen
2. **Locate and select the delivery intention to update**
3. Click **UPDATE** in the top left of the screen to open the Update Delivery Intention pop-up menu
4. **Edit updatable fields as desired**
5. Click **SUBMIT**

To Delete a Delivery Intention:

1. Navigate to the **Delivery – Delivery Intentions** screen
2. **Locate and select the delivery intention to delete**
3. Click **DELETE** to open the Delete Delivery Intention pop-up menu
4. Click **SUBMIT**

11.3 Delivery Intention Validations

Delivery Intention Validations

> Market Clearing Member Business Date

Business Date	CL MEM...	Instrument	Delivery Intention Quan...	Current Short Quan...	Remaining Short Quan...	Remaining Days	Validation Result	LAST UPDATED TIME
2022-11-16	888 S	W_12_22	5	5	0	10	OK	2022-12-02 15:59:15

EXPORT REFRESH

The Delivery – Delivery Intention Validation screen displays useful information for Clearing Members that hold short positions in an intention-based delivery future that has reached its delivery period. By taking the net delivery quantity from submitted delivery intentions, and a Clearing Member’s current short positions in the instrument, MCS calculates the remaining short quantity a Clearing Member is expected to deliver upon.

In addition, if delivery intentions exceed a Clearing Member’s current short positions, or the expected short quantity has not been zeroed out by the end of the delivery period, the Validation Result column will display a WARNING in the record requiring correction.

11.4 Delivery Positions

The Delivery – Delivery Positions screen lists the possible deliveries and receipts for the current Business Date. It includes data on the Delivery Type, Delivery Side, Instrument, Asset, Trade Account ID, and Quantity being

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

transacted. This page is automatically populated by MCS with data from the Clearing Member’s delivery reporting, once the report status has been marked as completed. This includes:

- **Consolidated Expiring Position Reports**
- **Long Date Position Reports**
- **Delivery Intentions**

Delivery Positions

> Clearing Member Account Delivery Type Market Business Date

Business Date	Delivery Type	Delivery Side	Instrument	Clearing Member Account	Warehouse Receipt ID	QTY	Last Updated Tim
2022-11-16	Intention-based	Deliver	W_12_22	888 S	HRSW GM3 106	1	2022-12-02 15:59:
2022-11-16	Intention-based	Deliver	W_12_22	888 S	HRSW GM3 107	1	2022-12-02 15:59:
2022-11-16	Intention-based	Deliver	W_12_22	888 S	HRSW GM3 108	1	2022-12-02 15:59:
2022-11-16	Intention-based	Deliver	W_12_22	888 S	HRSW GM3 109	1	2022-12-02 15:59:
2022-11-16	Intention-based	Deliver	W_12_22	888 S	HRSW GM3 110	1	2022-12-02 15:59:

If a user notices an error in these delivery positions before delivery reporting closes for the day, they can return the position reporting status to uncompleted to remove these delivery positions, and modify their Clearing Member’s position reporting as needed.

11.5 Delivery Assignments

Delivery Assignments

> Clearing Member Delivery Type Market Business Date

EXPORT REFRESH

Delivery Side	Business Date	Instrument	Clearing Me...	From Warehouse Re...	To Warehouse Re...	Issue Date	Opposite Cle...	Quantity
Receive	2022-11-16	W_12_22	777 S	HRSW RV1 101	HRSW RV1 105	2022-09-15	888	5

Delivery assignment is initiated by MCS once delivery position reporting is closed for the day. The process randomly matches deliveries to receipts, the results of which are viewable in the Delivery – Delivery Assignments screen.

11.6 Delivery Settlement Amounts

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Delivery Settlement Amounts

>
Clearing Member
Market
Business Date

Delivery Side	Business Date	CL MEMBER ACCT	Gross Settle...	Net Settle...	Settlement Price	Warehouse Adj...	Accrual Date	Number of Days	Attribute Adj...
Deliver	2022-11-16	888 S	49.25	48.35	9.85	0.00	2022-11-17	63	See Details

[EXPORT](#)
[REFRESH](#)

Once delivery assignments have been created, the Delivery – Settlement Amounts screen will display the credit/debit calculations for each of a Clearing Member’s assignments. Ultimately, Clearing Members with Delivery Side = Deliver are credited the net settlement amount, while Clearing Members with Delivery Side = Receive are debited the net settlement amount.

- **Gross Settlement Amount** = Assignment Quantity x Settlement Price x Contract Value Factor
- **Net Settlement Amount** = Gross Settlement Amount + Warehouse Adjustment Value + Sum of all adjustment values for each Contract Specific Attribute
- **Warehouse Adjustment Value** = (Premium or Discount from the Warehouse) x Assignment Quantity x Contract Value Factor

Attribute Adjustments

Attribute Name	Attribute Value
Dockage	0.00
Grade	0.00
Load out rate	0.00
Moisture	0.00
Protein	-750.00
Storage and Insurance Rate	-3907.78
Test Weight	500.00
Vomitoxin	0.00

[CLOSE](#)

- **Attribute Adjustments (Non-storage)** = (Premium or Discount from the Contract Specific Attribute) x Assignment Quantity x Contract Value Factor
- **Attribute Adjustments (Storage)** = (-1) x Storage Rate from the Shipping Certificate x Assignment Quantity x Contract Value Factor x Number of Days Stored
 - **Number of Days Stored** = Accrual Date – Storage Date on the Shipping Certificate (including weekends and holidays)
 - **Accrual Date** = Current Clearing Date + 2

12. Margin and Guaranty Fund

Firms are required to meet and maintain Margin and Guaranty Fund (Security Deposit) requirements using acceptable collateral types as set by MIAX Futures. These requirements and any changes to them can be monitored within the Margin and Guaranty Fund screens.

- Margin ▼
- Margin
- Margin Requirements
- Guaranty Fund ▼
- Guaranty Fund
- Guaranty Fund Requirements

12.1 Margin

In the Margin – Margin screen users can find a summary of their firm’s margin requirements as well as posted cash and non-cash collateral broken down by account.

Margin

Business Date ✕

		DATE	CM ACCT	MARGIN REQ	CASH	NON-CASH	PRE-HAIRCUT CASH	PRE-HAIRCUT NON-CASH
+	<input type="checkbox"/>	2026-04-21	999 R	7,857,100.00	1,384,723.40	5,877,570.60	1,384,723.40	5,936,940.00
+	<input type="checkbox"/>	2026-04-21	999 S	2,908,550.00	2,597,500.00	0.00	2,597,500.00	0.00

Clicking on the “+” symbol to the left of any of the records will display a drop-down list, breaking down the margin information by market.

–	<input type="checkbox"/>	2026-04-21	999 R	7,857,100.00	1,384,723.40	5,877,570.60	1,384,723.40	5,936,940.00
MARKET	TOTAL MARGIN REQ	TOTAL REQ/MAINT	MARGIN SAVINGS	MARGIN ADJ	ESMA ADD-ON			
MGEX	7,857,100.00	7,857,100.00	0.00	0.00	0.00			

When margin requirements are updated by the Clearing House, MCS calculates and records any subsequent deficits and cash excesses for each of a Clearing Member’s accounts. The results of this process are displayed within the Settlement – Breakdown and Settlement – Positions screens described in 9.3 and 9.4, and can be identified by querying for records where the Reason equals “Margin.”

- Margin deficits are stored as debits
- Cash excesses are stored as credits, up to the amount of cash collateral available to the account

12.2 Margin Requirements

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

From the Margin – Margin Requirements screen firms can view margin requirements including the risk-based margin, any margin adjustments, ESMA, and SPAN risk for the current and previous business dates.

Margin Requirements

> Business Date

<input type="checkbox"/>	DATE	MARKET	CM ACCT	TOTAL MARGIN	SPAN REQ/MAINT	TOTAL REQ/MAINT	MARGIN SAVINGS	MARGIN ADJ
<input type="checkbox"/>	2026-04-21	MGEX	999 R	7,857,100.00	7,857,100.00	7,857,100.00	0.00	0.00
<input type="checkbox"/>	2026-04-21	MGEX	999 S	2,908,550.00	2,908,550.00	2,908,550.00	0.00	0.00

12.3 Guaranty Fund

In the Guaranty Fund – Guaranty Fund screen users can find a summary of their firm’s security deposit requirements as well as posted cash and non-cash collateral pledged to meet those requirements.

Guaranty Fund

> Clearing Member Account Business Date

<input type="checkbox"/>	DATE	CM ACCT	CURRENT GF REQ	CURRENT MIN CASH REQ	UPCOMING GF REQ	UPCOMING MIN CASH REQ	CASH	NON-CASH
+	2024-05-09	999 G	900.00	540.00	5,000.00	3,000.00	2,661.12	0.00

Clicking on the “+” symbol to the left of any of the records will display a drop-down list, breaking down the security deposit information by market.

MARKET	CURRENT GF REQ	UPCOMING GF REQ	UPCOMING DATE
MGEX	900.00	5,000.00	2024-05-10

When security deposit requirements are updated by the Clearing House, MCS will display any subsequent deficits and excesses for the Clearing Member’s Guaranty Fund account within this screen.

12.4 Guaranty Fund Requirements

From the Guaranty Fund – Guaranty Fund Requirements screen firms can view security deposit requirements for the current and previous business dates. The breakdown also includes upcoming Guaranty Fund requirement changes if applicable.

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415

MIAX Futures | miaxglobal.com

Guaranty Fund Requirements

> Clearing Member Account Business Date

<input type="checkbox"/>	DATE	CM ACCT	MARKET	CURRENT GF REQ	UPCOMING GF REQ	UPCOMING DATE
<input type="checkbox"/>	2024-05-09	999 G	MGEX	900.00	5,000.00	2024-05-10

13. Collateral

- ✓ Collateral ▼
- Positions
- Transactions
- Logs >
- Collateral Value >
- Reference Data >
- Market Data >

Collateral is used to meet margin and security deposit requirements set by MIAX Futures. Similar to the Margin screens, the Collateral screens allow the user to monitor their firm’s collateral positions, make necessary deposits and withdrawals, adjust the composition of collateral positions, and view collateral values and market data.

13.1 Collateral Positions

The Collateral – Collateral Positions screen displays current collateral positions, including “Cash” or “Non-Cash” collateral broken down by specific collateral instrument (e.g. USD Cash, Treasury Bills, etc.). The screen also displays any applicable haircuts and the pre and post haircut market value of a firm’s collateral positions.

Collateral Positions

Business Date ✕

<input type="checkbox"/>	DATE	CM ACCT	COLLATERAL INSTR	BEG QTY	QTY	CCY	PRICE	HAIRCUT	PRE-HAIRCUT MV	POST-HAIRCUT MV	APPLIED MV
<input type="checkbox"/>	2026-05-04	999 G	T-Bill 912797US4 08/04/2026	4,000,000	4,000,000	USD	0.99085	1.00%	3,963,400.00	3,923,766.00	3,923,766.00
<input type="checkbox"/>	2026-05-04	999 G	USD	1,695,000	1,695,000	USD	1.00	0.00%	1,695,000.00	1,695,000.00	1,695,000.00

13.2 Collateral Transactions


The Collateral – Collateral Transactions screen allows firms to view previous collateral transactions as well as initiate new ones, including deposits and withdrawals. Any errors from recent submissions will display in the error column.


13.2.1 Initiate Deposit


To Initiate Deposit:

1. Navigate to the **Collateral – Transactions** screen
2. Click **INITIATE DEPOSIT** in the top left of the screen to open the Initiate Deposit pop-up menu

Initiate Deposit

Settlement Date 

R/S/G 

Collateral Instrument 

Clearing Member Custodian Template

Quantity

CANCEL

3. **Enter deposit details into the appropriate fields**, either by selecting an option from the drop-down list or, if none appear, completing the field manually

NOTE: When selecting from a drop-down list, users can enter the name of the option they are looking for to narrow the list, but must ultimately select the option from the list.

- a. **Correct any fields with inappropriate data types or values.** MCS will notify users of any fields needing correction, highlighting these fields in red and displaying an error message

Quantity

0

Must be greater than 0

4. Click **SUBMIT**, and review any received error messages
 - a. **Enter trade details for any missing required fields.** These will appear highlighted in red with an error message, as in the example below

Clearing Member Custodian Template 

Required field

- b. Correct any fields with inappropriate data types or values.** Any fields not flagged earlier will display an error message at the bottom of the pop-up menu

! Request failed with 1 error:

The quantity 10 is not a multiple of the minimum quantity 100, specified by sub-asset class Short Term U.S. Treasuries

13.2.1.1 Collateral Transaction Statuses

Once a Collateral Transaction has been initiated in the MCS, the current status will be displayed along with other transaction details in the Collateral – Transactions screen. Refer to the statuses below to identify next steps, if applicable. These statuses include:

- **Pending Settlement:** When a collateral transaction is first entered, the status will be set to PENDING SETTLEMENT if the quantity of the transaction is below the collateral approval threshold set by your firm and does not require secondary user approval. Pending clearing house approval and processing.
- **Pending Approval:** Transaction Quantity requires secondary user approval. See 13.2.3 for more detailed instructions on this process. Once approved, the status will update to PENDING SETTLEMENT or QUEUED if designated for a future settlement date.
- **Needs Review:**
 - Collateral withdrawal quantity exceeds current collateral positions
 - Clearing member is not eligible to process the collateral transaction
 - Withdrawal would reduce collateral below current margin requirement
 - Withdrawal results in breach of minimum cash requirement
 - Withdrawal exceeds the maximum allowed quantity
- **Queued:** If the transaction is submitted with a future settlement date the status will be set to QUEUED. Once the activity window opens on the designated settlement date, any QUEUED transactions will update to PENDING SETTLEMENT or other status described in this section.
- **Settled:** Upon Clearinghouse approval of the transaction and confirmation of receipt of the collateral deposit, or release of the collateral withdrawal, the status will be updated from PENDING SETTLEMENT to SETTLED. All SETTLED transactions are promoted to current collateral positions, displayed in the Collateral – Positions screen described in section 13.1.
- **Created:** New collateral transaction created. Primarily only shown in logs.

- **Validating:** System determines if the collateral transaction requires secondary user approval or needs review as described above. Primarily only shown in logs.
- **Failed:** Collateral transaction unable to be processed. See transaction log for further details. Instructions to query transaction log outlined in section 13.3.2.
- **Cancelled:** MCS users can cancel a collateral transaction while the status is still pending before it has reached the settlement process (e.g. Created, Pending Approval, Queued, Validating, or Needs Review). This will result in a status of cancelled. See 13.2.4 and 13.2.5 for more detailed instruction on this process.
- **System Cancelled:** At the end of each Trade Date, any collateral transactions remaining in a pending approval or needs review status will be updated to a SYSTEM CANCELLED state. The transactions will no longer be able to be approved, and will remain for reference purposes in the system for the next two business days.

13.2.2 Initiate Withdrawal

To Initiate a Withdrawal:

1. Navigate to the **Collateral – Transactions** screen
2. Click **INITIATE WITHDRAWAL** in the top left of the screen to open the Initiate Withdrawal pop-up menu

Initiate Withdrawal

Settlement Date 📅

R/S/G ▼

Collateral Instrument ▼

Clearing Member Custodian Template

Quantity

CONFIRM TRANSACTION

CANCEL

3. **Enter withdrawal details into the appropriate fields**, either by selecting an option from the drop-down list or, if none appear, completing the field manually

NOTE: When selecting from a drop-down list, users can enter the name of the option they are looking for to narrow the list, but must ultimately select the option from the list.

- a. **Correct any fields with inappropriate data types or values.** MCS will notify users of any fields needing correction, highlighting these fields in red and displaying an error message

Quantity

0

Must be greater than 0

4. Click **SUBMIT**, and review any received error messages
 - a. **Enter trade details for any missing required fields.** These will appear highlighted in red with an error message, as in the example below

Clearing Member Custodian Template

Required field

- b. **Correct any fields with inappropriate data types or values.** Any fields not flagged earlier will display an error message at the bottom of the pop-up menu

! Request failed with 1 error:

The quantity 10 is not a multiple of the minimum quantity 100, specified by sub-asset class Short Term U.S. Treasuries

13.2.3 Approve Transaction

To ensure accuracy and security, the MCS utilizes a two-party approval process for collateral transactions. This means, a user who did not initiate the deposit or withdrawal must log in separately and approve the transaction if the quantity is above the collateral approval threshold set by your firm.

To Approve a Collateral Transaction

1. Navigate to the **Collateral – Transactions** screen
2. **Locate and select the relevant transaction(s) to approve**

MIAMI INTERNATIONAL HOLDINGS, INC

400 South 4th Street, 130 Grain Exchange Building | Minneapolis, MN 55415
 MIAX Futures | miaxglobal.com

3. Click **APPROVE** in the top left of the screen to open the Approve Collateral Transaction pop-up menu

Approve Transaction

TXN ID	TXN TYPE	COLLATERAL INSTR
T0000000570	Deposit	T-Bill 912797GH1 5/14/2024

SUBMIT CANCEL

4. Click **SUBMIT**

13.2.4 Cancel Transaction

To Cancel a Collateral Transaction

1. Navigate to the **Collateral – Transactions** screen
2. **Locate and select the relevant transaction(s) to cancel**
3. Click **CANCEL** in the top left of the screen to open the Cancel Collateral Transaction pop-up menu

Cancel Transaction

TXN ID	TXN TYPE	COLLATERAL INSTR
T0000000510	Deposit	USD Cash

Reason

SUBMIT CANCEL

4. (Optional) **Enter the reason for cancelling the collateral transaction.** If provided, the reason will be stored in the Collateral Position Log for the collateral transaction cancellation


5. Click **SUBMIT**


13.2.5 Cancel and Replace Transaction


To Cancel and Replace a Collateral Transaction


1. Navigate to the **Collateral – Transactions** screen
2. **Locate and select the relevant transaction(s) to cancel and replace**
3. Click **CANCEL AND REPLACE** in the top left of the screen to open the Cancel and Replace Collateral Transaction pop-up menu

Cancel and Replace

Settlement Date
2024-05-03 

R/S
S 

Collateral Instrument
T-Bill 912797GH1 5/14/2024 

Clearing Member Custodian Template
BMO 123456 HTC HTC 

Quantity
1,000

SUBMIT CANCEL

4. **Enter details for the new transaction in the appropriate fields**, either by selecting an option from the drop-down list or, if none appear, completing the field manually.

NOTE: When selecting from a drop-down list, users can enter the name of the option they are looking for to narrow the list, but must ultimately select the option from the list.

- a. **Correct any fields with inappropriate data types or values.** MCS will notify users of any fields needing correction, highlighting these fields in red and displaying an error message


Quantity
0
Must be greater than 0

5. Click **SUBMIT**, and review any received error messages

- a. **Enter details for any missing required fields.** These will appear highlighted in red with an error message, as in the example below

Clearing Member Custodian Template
Required field

- b. **Correct any fields with inappropriate data types or values.** Any fields not flagged earlier will display an error message at the bottom of the pop-up menu

 **Request failed with 1 error:**

The quantity 10 is not a multiple of the minimum quantity 100, specified by sub-asset class Short Term U.S. Treasuries

13.3 Collateral Logs


13.3.1 Collateral Position Log


For each Collateral Position, MCS will store a record of all updates within the collateral position log. This log includes information on the time of, the user responsible for, and the reason behind each log record as well as before/after value updates. Collateral position logs are stored in the system for up to 25 calendar days.


To query Collateral Position Logs:

1. Navigate to the **Collateral – Logs – Position Log** screen to see all logs stored by MCS, from which a user can query for desired records

Collateral Position Log

Clearing Member 

Business Date  R/S/G

From Timestamp  To Timestamp

<input type="checkbox"/>	DATE	CM ACCT	COLLATERAL INSTR
<input type="checkbox"/>	2024-05-13	999 S	T-Bill 912797GH1 5/14/2024
<input type="checkbox"/>	2024-05-13	999 R	USD Cash

13.3.2 Collateral Transaction Log

For each Collateral Transaction, MCS will store a record of all updates within the collateral transaction log. This log includes information on the status (e.g. Created, Pending approval, Pending Settlement, Settled, and Canceled), time of, the user responsible for, and the reason behind each log record. Collateral transaction logs are stored in the system up to 25 calendar days.

Log reasons include:

- **New transaction**
- **Approval not required** (i.e. Transaction amount is below approval threshold)
- **Approval required** (i.e. Transaction amount requires secondary approval)
- **Withdrawal accepted**
- **Settlement confirmed**
- **Transaction completed**
- **Cancelled due to new margin date** (i.e. Pending transaction not approved prior to deadline)

To find the Collateral Transaction Log of a particular transaction:

1. Navigate to the **Collateral – Transactions** screen
2. **Locate the desired transaction** to inspect
3. **Click on the hyperlinked “TXN ID”** on the record to navigate to the transaction log displaying all updates for the associated transaction.

Collateral Transaction Log

Transaction ID: Transaction ID ✕

Transaction ID: T0000000590 From Timestamp: To Timestamp: Transaction Status: ▼

<input type="checkbox"/>	TXN ID	CM ACCT	TIME	REASON	POS QTY	PRICE	HAIRCUT	CCY	STATUS	PRI
<input type="checkbox"/>	T0000000590	999 S	2024-06-25 12:46:49	New transaction				USD	Created	
<input type="checkbox"/>	T0000000590	999 S	2024-06-25 12:46:49	Approval required				USD	Pending Approval	

To query Collateral Position Logs in general:

1. Navigate to the **Collateral – Logs – Transaction Log** screen to see all logs stored by MCS, from which a user can query for desired records

Collateral Transaction Log

▼ No active search criteria

Transaction ID: From Timestamp: 📄

<input type="checkbox"/>	TXN ID	CM ACCT	REASON
<input type="checkbox"/>	T0000000590	999 S	New transaction
<input type="checkbox"/>	T0000000590	999 S	Approval required

NOTE: By clicking on the hyperlinked TXN ID users can instantly navigate to the collateral transactions screen to view that specific transaction. By clicking the hyperlinked TXN ID again, the user can return to the Collateral Transaction Log.

13.4 Collateral Value

Distinct from the Collateral Positions screen, the Collateral Values screens allow users to view their collateral values broken down by account and sub-asset class for a more streamlined overview of their pledged collateral.

13.4.1 Collateral Value Per Account

The Collateral - Collateral Values - Account screen allows the firm to view their current cash and non-cash collateral value by account.

Collateral Values

> No active search criteria

<input type="checkbox"/>	DATE ↓ ¹	CM ACCT ↑ ²	CASH	NON-CASH	PRE-HAIRCUT CASH	PRE-HAIRCUT NON-CASH	PREV CASH	PREV NON-CASH	PREV PRE-HAIRCUT CASH	PREV PRE-HAIRCUT NON-CASH
<input type="checkbox"/>	2026-05-04	999 G	1,695,000.00	3,923,766.00	1,695,000.00	3,963,400.00	1,695,000.00	3,922,498.80	1,695,000.00	3,962,120.00
<input type="checkbox"/>	2026-05-04	999 R	3,755,801.80	5,885,649.00	3,755,801.80	5,945,100.00	3,885,224.00	5,883,748.20	3,885,224.00	5,943,180.00

13.4.2 Collateral Value Per Sub-asset class

The Collateral - Collateral Values – Sub-asset Class screen allows the firm to see their total pre-haircut market value, total applied market value, and capped applied market value by sub-asset class and account.

Collateral Values Per Sub-asset Class

> No active search criteria

<input type="checkbox"/>	DATE	CM ACCT ▼	SUB-ASSET CLASS	TOTAL PRE-HAIRCUT MV	TOTAL POST-HAIRCUT MV	TOTAL APPLIED MV	CAPPED APPLIED MV
<input type="checkbox"/>	2026-05-04	999 R	U.S. T-Bills	5,945,100.00	5,885,649.00	5,885,649.00	5,885,649.00
<input type="checkbox"/>	2026-05-04	999 G	U.S. T-Bills	3,963,400.00	3,923,766.00	3,923,766.00	3,923,766.00
<input type="checkbox"/>	2026-05-04	999 G	U.S. Dollar	1,695,000.00	1,695,000.00	1,695,000.00	1,695,000.00

Appendix A: Revision History

Revision Date	Version	Description
December 2022	0.1	Initial draft version
January 2023	0.2	Addition of section 7.2.2 - 11
February 2023	0.3	Addition of Mass Update instructions, TRX handling of extended give-up window
April 2023	0.4	Updates to sections 6.3.1, 7.2.2.8
November 2023	1.0	First draft for system as it exists in production. Updates to incorporate feedback from go-live
November 2024	1.1	Updates and additions to sections 11 – 12. MIAX Futures rebrand
November 2025	1.2	Updates and additions to sections 1 – 2.
April 2026	1.3	Addition of Shipping Certificates. Updated GUI screenshots.

miax
Futures™

miaxglobal.com