

Account Management Service User Manual

5 June 2024



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Getting Started

Account Management Service is used by Clearing, Execution Firm, and Trader Risk administrators to create and manage accounts associated with CME Globex, Inline Credit Controls (ICC), Over The Counter (OTC), CME Direct and Spot FX.

The following functions are available:

- Registration and Login: Access Account Management Service with a valid CME Group Login.
- Account <u>Creation</u> and <u>Management</u>: Create and update CME Direct (CME Globex), CME ClearPort and ICC (CME Globex) accounts, including access and entitlements:
 - Trading services.
 - Market types, products, brokers.
 - Credit Controls: Credit and Product quantity limits.
 - Firm / entity relationships, including Spot FX accounts and execution firms..
 - Uploading account updates / <u>Bulk Upload</u>: Download account details as a spreadsheet, then upload to update multiple accounts.
- Trade Type Restriction: View and restrict CME ClearPort enabled accounts from submitting block trades.
- <u>Dashboard</u>: Functionality overview.

What's New

The list below illustrates the updates made to the Account Management Service Help system.

Date	Торіс	Description
5 June 2024	Create New Account	Updated details for <u>Max</u> <u>Margin Usage</u> , including <u>download</u> function.
22 April 2024	<u>Create New Account</u>	Agency Cross (A-Cross) crossing protocol has been decommissioned. See also: <u>NYMEX/COMEX Rule</u> 539.C (Pre-Execution Communications Regarding Globex Trades).
26 June 2023	<u>Credit Controls</u>	Added Account Credit Control Models and CME ClearPort Product Position Limit details
31 October 2022	Format	Website and PDF format changes only.
19 October 2022	Create New Account	Expanded restricted special characters for customer created account numbers
22 June 2022	 <u>Searching Accounts</u> <u>Create New Account</u> <u>Managing Accounts</u> 	Updated search for Account Owner Name and/or Legal Entity Identifier (LEI). Users can configure accounts with different registered owners to be margined together.
24 February 2020	<u>Credit Controls</u>	Updated option limit calculation examples
17 July 2019	Calculating ICC Limits	ICC calculation details and examples are included
21 March 2019		Summarizes the FX Link / Spot FX onboarding and setup process.
14 February 2019	Managing ICC Credit Controls via Upload	Updating multiple execution firm product limits, via upload.
13 November	Creating an Account	Created individual chapters that illustrate account

Account Management Service

Date	Торіс	Description
2018		creation.
30 October 2018	all	updated upload / download process - ICC, accounts, credit controls.
27 August 2018	all	Initial release.

Logging In

After confirming CME Group Login registration and association with a Account Management Service authorized firm, review the following login instructions.

CME Group Login

CME Group Login is a self-managed, centralized user profile service that authenticates access to Account Management Service and other applications and services.

- Create a new CME Group Login user ID and profile: Prior to accessing, all users must have an active login profile.
- <u>Review the CME Group Login User Guide</u>: Access guidance and instructions: register, retrieve forgotten user ID, reset password, update profile and manage other services.
- <u>Update a CME Group Login User ID and profile</u>: Login privileges are retained even if users change firms, email address, registration information, User ID or password. Some instances may require access and entitlements update.

For additional registration or login assistance, including forgotten user ID and password, contact Enterprise Access and System Entitlements (EASE).

To request application access, contact Global Account Management.

Log In

- **To login to Account Management Service:**
 - 1. Navigate to cmegroup.com., select the Login / Profile icon (), then select CME Customer Center (single sign on).



2. On the page that appears, enter the CME Group Login ID and Password, then select Login .

Note: To register for a CME Group Login ID, view CME Group Login Registration.

3. From the **Portfolio & Risk** tab, select **Account Management Service**.

CME Group	Customer Center	Portfolio & Risk
		Account Management Service

Note: For login or access issues, contact <u>Enterprise Application & System Entitlements (EASE)</u> or go to the <u>CME</u> <u>Group Login</u> page.

Log Out

From the CME Customer Center menu, select the Login / Profile icon (), then select Logout.

If the application is idle for 30 minutes, the system automatically times out.

Roles and Entitlements

Account Management Service application functions are available to clearing and executing firm users, with the ability to assign multiple entitlements to a single user.

Role requests are coordinated with <u>Global Account Management</u> (GAM). Access issues are managed by <u>Enterprise</u> Application & System Entitlements (EASE).

Example: To authorize a clearing firm administrator, for CME Globex and CME ClearPort, select: - Globex Clearing Firm Account Admin and CPC Clearing Firm Account Admin.

Role	Firm Type	Platform	Entitlement Description
Clearing Firm Account Administrator	Clearing Firm	CME ClearPort, CME Direct (Globex), Spot FX, Inline Credit Controls (Globex)	View, create, edit accounts, including multiple account updates using download / upload. Manage risk by setting market types, products, broker / asset manager access. Set credit limits and controls at the account and product levels. Restrict CME ClearPort accounts eligible for pre-negotiated trade submissions by Trade Type. Create Delegated Intermediary (DI) accounts and flag clearing accounts as DI. Manage Customer (Parent) Accounts, which are owners of trading sub- accounts.
			 Note: <u>Services</u> (trading platform) assignment restricts accounts to the specified platform only. To authorize additional platforms, select additional services. Administrative users must be authorized to the platforms they wish to manage (e.g. to manage a CME Direct authorized account, the administrator must also be an authorized CME Direct administrator). <i>CPC</i> Clearing Firm Account Admin: CME ClearPort <i>Globex</i> Clearing Firm Account Admin: CME Direct <i>ICC</i> Clearing Member Firm Account Admin: CME Globex - A, <u>download /</u> <u>upload</u> ICC configuration, alert threshold alerts, execution firm order entry suspension. Also manages <u>Admin Policy</u> (via Entity Risk Management), alert thresholds, product restrictions.
			Spot FX View, Create, Edit Spot FX accounts. Download accounts configuration, upload multiple account updates. View and edit clearing accounts, firm rights, asset managers, credit limits.
Execution Firm Account Administrator	Execution Firm	CME Direct (Globex), Spot FX, Inline Credit Controls (Globex)	Create ICC accounts. Set product quantity and credit limits. View Admin policy settings and alerts, set by the Clearing Member Firm Account Administrator. Manage execution firm order entry permissions. Download / upload ICC account and credit control updates.
Sub Clearing Member Firm Account Administrator	Clearing Firm	Inline Credit Controls (Globex)	For a sub-clearing firm, that is guaranteed by a parent Clearing Member Firm. View, create, edit clearing and execution firm (ICC) accounts. Manage risk by setting market, product and broker access. Set credit limits and at the account and product quantity limits.

			Restrict CME ClearPort accounts eligible for pre-negotiated trade submissions, by Trade Type. Identified as the controlling firm of an execution firm; requires at least one execution firm.
Trader Administrator	Trading Firm	CME ClearPort, CME Direct (Globex)	View, create and edit Trading Accounts, including owner firm, broker firms, traders, services and status. View eligible sub-accounts, credit controls, where the trading firm is the account owner. Note : Cannot create trading sub-acounts.
Trader Risk Administrator	Trading Firm	CME ClearPort, CME Direct (Globex)	Create and edit trading sub accounts, that clear through the delegated intermediary and clearing member firm, including credit controls, credit limits. Manage broker firm and trader assignments.
Broker Viewer	Broker	CME ClearPort, CME Globex	Search and view accounts for which their broker firm(s) are assigned entitlements. For a given account, view products and services.

Dashboard

The Dashboard provides an overview of Account Management Service functions and support contacts.

Available functions:

🗙 Account Management S	Service 🖌				
Account Management		Dashboard	Account	Trade Type Restriction	() L 🛛 ()
Accounts					

- Trade Type Restriction
- 1 Info: View the current user and system version.
- Section 2015 Phone: Opens a dialog to contact the CME Global Command Center (GCC).
- **Email**: Opens the default email program to send a support request.
- 💽 Help: Opens the User Manual / WebHelp.

Account Functions

From the Account menu, Clearing, Execution and Trader Risk administrators can create and manage accounts authorized for CME Globex, CME Direct, CME ClearPort, Inline Credit Controls and Spot FX.

The following functions are available:

- Search / View Accounts
- Create a New Account
- Trading Account / Trading Sub-Account
- Credit Controls
- Managing Accounts

Account Search

Use the Account function to search and view account configuration details or create a new account.

To view account details:

- 1. Go to the Account page.
- 2. Select the Account Type, then perform a search.

Based on the selected Account Type, search criteria may vary.

3. Enter search criteria.

Partial entries are accepted, results matching any of the entered characters will appear.

- Clearing Account Select / specify search criteria:
 - Service CME Direct (CME Globex) Inline Credit Controls [(ICC)(CME Globex)] CME ClearPort
 - Account Number The alphanumeric identifier for ClearPort or CME Globex accounts that identify the trading firm. ClearPort account numbers may be up to 20 characters. CME Globex account numbers may be up to 12 characters.
 - Account Alias An account identifider that refers to the Account, Origin and Clearing firm and is assigned by the trading firm.
 - Spot FX Ref Number Optional user specified external reference number
 - Clearing Member Registered member clearing firm
 - Account Owner / LEI Search by the account owner name or Legal Entity Identifier. As characters are entered matching results appear.
 - Execution Firm Equivalent to the session ID, the firm that submits orders.
 - Status Active / Inactive / All / Pending

Account Management		Dashboard Account	Trade Type Restriction		₫ ∿ ⊒ 9
Account List			Create New Account	초Download 초Upload 초Max U	Isage Download
Account Type Clearing Acct 🗸	Service All 🗸	Account Number Account Number	Account Alias	Spot FX Ref Number Spot FX Ref Number	
Clearing Member Clearing Member		Account Owner / LEI Search By Owner or LEI	Execution Firm Text Search	n Status EF All V	Search

- Trading Account Select / specify search criteria:
 - Managing Firm A Delegated Intermediary firm that creates and manages sub-accounts.

For additional field descriptions, refer to Clearing Account (above).

Account List			Create New A	Account 📥 Download 🔔	Upload	📥 Max Usage Downloa
Account Type	Service	Account Number	Managing Firm	Account Owner / LEI	Status	
Trading Acct	All 🔻	Account Number	Managing Firm	Search By Owner	All	• Search

- 4. Clicking Search without criteria returns all accounts you are authorized to view.
- 5. To view Account Details, select the **blue** linked Account Number.

Additional Account Functions

- Create New Account
- Manage / Update existing account(s)
- Download / Upload (Bulk Update)
 - Download configuration as a MS Excel spreadsheet.
 - Update then Upload the file to update the configuration for multiple accounts.
- Max Usage Download

Create New Account

Use the Account function to search, create and manage clearing and trading accounts (including trading sub-accounts).

Account setup includes platforms / services, products, broker permissions and credit controls.

Clearing Account Settings

Example: Clearing Account Fields

The following instructions illustrate the process to create an account.

Overview

- 1. Create New Account button
- 2. Clearing Account Settings
 - Trading Account / Trading Sub-Account (if applicable)
- 3. Service(s):
 - <u>CME Direct (CME Globex</u>
 - CME ClearPort
 - Inline Credit Controls (CME Globex)
 - Spot FX
 - Straight-Through Processing create account enabled for STP (only Clearing Account Settings are required)

Account Management Service

- 4. Market Type Permissions
- 5. Product Permissions
- 6. Broker / Asset Manager Permissions
- 7. Credit Controls
- 8. Activate account (or create as Inactive, to save for later)

To Create an Account:

Prior to creating a new account, perform an account <u>search</u>. to ensure it doesn't exist.

1. From the Account page, select the **Create New Account** button.

Account Managem	lent	Dashboard Account			ଡ ୯ ଅ ଡ
Account List			[Create New Account 📩 Download	🕹 Upload 🛛 📥 Max Usage Download
Account Type	Service	Account Number	Account Alias	Spot FX Ref Number	Clearing Member
Clearing Acct 🐱	ICC 🗸	Account Number/LEI	Account Alias	Spot FX Ref Number	Clearing Member
Account Owner / LEI		Execution Firm	Status		
Search By Owner		Text Search EF	All 🗸	Search	

2. On the page that appears, specify **Clearing Account Settings**. **Clearing member***

Clearing members assume financial and performance responsibility for all transactions executed through them and cleared by CME Clearing whether it is for the account of a customer, member, or their own account. Account Number *

The alphanumeric identifier for the account that is unique at the firm.

- CME ClearPort: Up to 20 characters.
- CME Globex (CME Direct or ICC): Up to 12 characters.

If more than 12 characters are entered, CME Globex service will not be available for selection.

Do not use the following special characters in the first, second or last position.

@	at
%	percent
٨	caret
&	ampersand
(left parentheses
)	right parentheses
_	underscore
=	equal
{	left brace

}	right brace
[left bracket
]	right bracket
T	vertical bar
\	backslash
:	colon
;	semi colon
п	double quote
T	single quote
<	less than
>	greater than
,	comma
	period
Space	space

Description*

User specified identification details. Owner Firm*

The Trading firm or LEI owner of this account.

If the clearing account is designated as Delegated Intermediary (DI); specify by the clearing member firm. Additional details are inherited from Trading Account Owner.

DI (parent) accounts cannot be updated via <u>Bulk upload</u>. Asset Manager (Controller) Firm

Enter the name in the field; available choices appear based on the partially entered name.

For DI and sub-accounts: If an asset manager firm is assigned to the clearing account, trading sub-accounts cannot be created and the DI selection will not be available.

Owner's Primary Business Activity*

Required when shown. Country of Origin*

Required when shown. Appears when a dynamic (not registered) owner firm is specified. House / Customer Indicator*

Indicates whether the account represents customer segregated funds or house funds. **CTI Code***

CTI1 - An individual member trading for her or her own account, CTI2 - A member firm trading for its proprietary account, CTI3 - A member firm trading for another member, CTI4 - All others individuals. **Portfolio Margin Futures**

Enables the account for the CME Portfolio Margining program for futures. **Delegated Intermediary (DI)**

Specified by the clearing member firm administrator, instead of Asset Manager. Margin Account

Enables customer accounts to aggregate trades to calculate OTC trade cross-account margin offsets. The Margin Owner

field specifies the registered owner firm.

- SELF: Non-CME ClearPort accounts use Self, which assigns the same account number as the owner.
- Specify Margin Account: Associate accounts with clearing member, beneficial owner, designated margin account.
- Margin multiple accounts to same owner firm: For CME ClearPort accounts only, multiple accounts, with different Owner Firms, can use the same Margin Account.

 The accounts has a solution of the same of the same of the owner Firms for both accounts.

The accounts must be associated with the same Clearing Member and the Owner Firms for both accounts must use the same LEI.

Edit the account, then select the Owner Firm from the Margin Account field

				De-activate	Copy CPC Bulk Upload Delet
earing Account	Settings				Edit
Clearing Member	Account Number (Ali	as) Description			
ClearCo	123456 (A-123456) test			
Owner Firm	Asset Ma	nager (Controller) Firm			
TradeCo (LEI1234	567890)				
House/Customer In	dicator CTI Code	Portfolio Margin Futures	Delegated Intermediary (DI)	Margin Account	Margin Account Owner Firm
Customer	4	Not Enabled	Not Enabled	Margin1	TradeCo-EU (LEI1234567890)

3. Select a **Service**, then specify additional details:

CME Direct (CME Globex) - Select the CME Direct (CME Globex) tab, then specify the following:

Services	Enable for STP ONLY
ICC (CME Globex) Enable	

• Enter the iLink Session ID(s) to enable, then select to Add.

		Enable for STP ONLY
ClearPort Clearing Enable	ICC (CME Globex) Enable	
		Cancel
missions 3: Product Perm	hissions 4: Broker Permission	ons 5: Credit Controls
	ClearPort Clearing Enable missions 3: Product Perm	ClearPort Clearing Enable ICC (CME Globex) Enable missions 3: Product Permissions 4: Broker Permission

 iLink Session ID: Also known as SenderComp, which can be obtained from <u>Global Account Management</u>. This ID, used for in-house brokerage purposes, is submitted with trades, and associated with referenced Clearing Member firms.

[CME:	CARL IN CARL	
 [COMEX:	second a locality	1
 [DME:	0.000 0.000	
[FXS:	contra da concensión	
[KCB:		
[MGE:	a	-

Clearing Firms can assign a default iLink Session ID / SenderComp for in-house Broker entities.

Available options:

- OK: Proceed without selecting an iLink Session ID.
- Cancel: Select an iLink Session ID, go back and select an iLink Session ID.

Note: If an iLink Session ID is not selected, a dialog appears and must be acknowledged before proceeding with account setup.

CME ClearPort Clearing - Select the ClearPort Clearing tab, then specify the following:

Services		Enable for STP ONLY
ClearPort Clearing	CME Direct (CME Globex)	

• On the Setup pane, specify Account details

Account Type

- None
- Holding: If selected, the account cannot be a Delegated Intermediary (DI).
- Client Risk Master: Enables brokers to submit customer Block or EFRP trades into a single account for post-trade allocation. These accounts are only permitted for brokers registered under an Exchange Clearing Member Firm; cannot be used by non-clearing firm brokers (see: <u>Client Risk</u> Master). End clients are not required to register with CME Group.
- Short Code: Enables brokers to submit customer Block or EFRP trades for a single end-client trading firm. The identity of the client must be referenced in the Account Description but the firm will not need to register themselves. These accounts may be used by any broker registered for ClearPort / CME Direct and permitted to submit trades on behalf of the account (see: Short Code Accounts).

Services			Enable for STP ONLY
CME Direct (CME Globex) Enable	ClearPort Clearing	ICC (CME Globex) Enable	
			Cancel
1: Setup 2: Market Type Perr	missions 3: Product Per	missions 4: Broker Permissior	ns 5: Credit Controls
CPC Account Attributes			
Account Type			
None Holding			
Client Risk Ma	ster		
Short Code			

ICC (CME Globex) - Select ICC (CME Globex), then specify the following:

Services	Enable for STP ONLY
ICC (CME Globex) Enable	

• Specify Execution Firm(s)* details.

As you type, matching execution firms appear in a list; select to add.

Services	Enable for STP ONLY
ICC (CME Globex)	
	Cancel
Execution Firms	
* Choose an EF	

• Select **Create**, then specify whether to create as **Active** or **Inactive**Example: To configure or modify settings at a later time.

Create Account		\otimes
Create Account as Active Inactive		
	Cancel	ок

 To complete account creation, go to <u>Managing ICC Credit Controls</u> and set (optional) Clearing Member and Execution Firm product limits.

ICC (CME Globex) does not require Market / Product / Broker permissions.

Note: By default order management uses firm-wide policy settings to manage orders maximum allowable product limits.

To manage order handling from unregistered accounts or for products with unset limits go to Entity Risk Management - Policy & Threshold Settings.

Spot FX - Select the ICC (CME Globex) tab, then continue to set up Spot FX

	Enable for STP ONLY
ICC (CME Globex) Enable	

• Select the ICC (CME Globex) tab.

Services	Enable for STP ONLY
ICC (CME Globex)	

• Specify Execution Firm(s)* details.

As you type, matching execution firms appear in a list; select to add.

chable for STP ONEI
Cancel Create

• Select **Create**, then specify whether to create as **Active** or **Inactive**Example: To configure or modify settings at a later time.

Create Account		\otimes
Create Account as Active Inactive 		
(Cancel	ок

To complete account creation and activation, view <u>Entity Risk Management - Spot FX</u> instructions to view details on linking Trading Firms and setting Spot FX Credit Controls (via ICC).

Spot FX enabled does not require Market / Product / Broker permissions.

4. Specify Market Type Permissions.

Not applicable for ICC (CME Globex or Spot FX).

Market Permissions include Product and Broker permissions, which determine available products that can be traded by an account and / or designated broker(s).

Step 1: Setup	Step 2: Market Type Permissions	Step 3: Product Permissions	Step 4: Broker Permissions	Step 5: Credit Controls

Market Type Permissions

After confirming Account <u>Settings</u> and <u>Services</u>, select **Market Types** and **Access**.

Available options:

- None: Submitting orders for this Market Type, including all Products, is restricted.
- Specific: Requires selection of individual product permissions.
- All: Enable order submission for this market type and all products.

Account Management Service

1: Se	etup 2: Market Type Permissions	s 3: Product F	Permissions	4: Broker P	Permissions	5: Credit Controls
Mar	ket Type Permissions					
	Market Type			Access		6
	CME Agriculture (Globex)	O None	• Specific	O All		
	COMEX (Globex)	O None	O Specific	O All		
	DME (Globex)	• None	O Specific	O All		
	FX Link (Globex)	None	O Specific			
	NYMEX (Globex)	O None	O Specific	O All		

Note: Specific and All, requires credit and maximum long / short quantity limits; configured with the Credit Controls function.

5. Product Permissions

Individual product availability and ability to trade, may require selection of specific products and specification of long / short quantity limits.

On the Product Permissions page, select from Available Products, then add at least one product.

: Setup 2: Market Type Permissions 3: Proc	duct Permissions 4: Broker Permissions 5: Credit Controls
Product Permissions	
CME A	Agriculture (Globex)
Available Products	Selected Products
Search Products	Search Products
1AD / 1AD - AUD/USD Weekly Premium Quoted Eur 1BP / 1BP - GBP/USD Weekly Premium Quoted Eur 1CD / 1CD - CAD/USD Weekly Premium Quoted Eur 1EU / 1EU - EUR/USD Weekly Premium Quoted Eur 1JY / 1JY - JPY/USD Weekly Premium Quoted Eur 1SF / 1SF - CHF/USD Weekly Premium Quoted Eur 2AD / 2AD - AUD/USD Weekly Premium Quoted Eur 2BP / 2BP - GBP/USD Weekly Premium Quoted Eur	

- Add: 🕑 / Add All: ⊵
- Remove: < / Remove All: <

To find a specific product, enter the symbol or name in the search field; partial entries are accepted

6. Broker Permissions - Specify brokers authorized to operate this account.

Confirm product selections, then select Step 4: Broker Permissions.

Select Brokers from Broker Permissions page - Available Brokers pane.

1: Setup 2: Market Type Permissions	3: Prod	uct Permission:	s 4: Broker Permissions	5: Credit Controls
Broker Permissions				
Available Brokers		Sele	ected Brokers	
Search Brokers		Se	arch Brokers	
005 trading firm 0102TT 0202TP4 0402gps01 040716P2ST 040816P2 050816P1 0512ERT1 080816A1	•	> < >		•

Add: 🕑 / Add All: ⋗

Remove: 🖸 / Remove All: 🔍

To find a specific broker, enter the name in the search field; partial entries are accepted.

7. Credit Control - Specify the Currency, Credit / RAV Limit, and product limits (product limits are not required for CME ClearPort).

Margin rates and <u>intra-commodity spread</u> credits are used to determine credit usage, remaining credit and percent used; by product and type of trade.

• CME Direct: Credit Limit is required.

Gervices							Enab	led for STP
CME Direct (CME Globex) Pending	ClearPort Clearing Pending	Cross Venue Risk Enab	ble	ICC (CME G	obex) Ena	able		
Account Details					Cancel	Save	Remove	e CMED
1: Setup 2: Market	Type Permissions 3:	Product Permissions	4: Bro	ker Permis	sions	5: 0	redit Co	ntrols
Credit Control								
Note: Setting options quantity limits i applying delta. Intra-commodity spread quantities fo	s optional. If no limit is set for options, tra	ading in options may occur up to the fut 6 of the order quantity.	ures limit. O	ptions are conv	erted into fut	tures equival	ent quantiti	es by
Currency	Credit Limit (Credit Usage Remaining Credi	t % Cre	edit Limit Use	d Start	of Day Po	sitions	
US Dollar 🗸 🗸	5	0 0			Not	Enabled		
Permissible Products Show all p Product Globex / Product Symbol & Cole & Type	uct Max Qty Long	Set All Unset Limits to Zere Max Qty Short	Net L	% of % of Max Max Qty Qty Jong Short Used Used	Search: Working Long	Working Short	Net Fills + Working Long	Net Fills + Working Short
E-mini S&P 500 Futures Synthetic	1	1						-
E-mini S&P 500 Monday Options	zero	zero						

CME ClearPort: RAV Limit	is requ	ired.					
Services						E	nabled for STP
ClearPort Clearing Pending CME	Direct (CME	Globex) En	ICC (CME Globex)	Enable			
Account Details					Cance	Save	Remove CPC
1: Setup 2: Market Typ	e Permissi	ions	3: Product Permissions	4: Broker Perm	nissions	5: Cree	dit Controls
Credit Control							
Currency RAV US Dollar V 5	Limit		Margin Usage Remaining Ma \$0 unlimited	rgin % Margin Used	Max Margin U \$0	Jsage 🛓	•
Permissible Products Show all produce	ucts tradable	e in this acc	count V Set All Unset Limits	to Zero	Search:		
Product Symbol 🔺	Symbol	Product Type	Max Qty Long	Max Qty Short	Net Fills	% of Max Qty Long Used	% of Max Qty Short Used
\$10 DOW JONES FUTURES	11	FUT	1	1			^
\$10 DOW JONES OPTIONS	11	00F	unlimited	unlimited			

- Currency
- **RAV Limit** Account-level RAV limit is set by the clearing member firm and required for trading on CME ClearPort.
- Margin Usage Amount of margin used (of the available RAV limit)
- Remaining Margin of the total available RAV limit
- % Margin Used Margin Usage as a percentage of the RAV limit
- Max Margin Usage Highest utilization value of the day.

Example: If current day usage was 15 / 10 / 20 / 17, the value would be 20. If a trade exceeds max margin usage, and is voided, max margin usage before the trade was voided will appear.

- Historical Max Usage Report (
 Download a spreadsheet that includes three-months of historical limits on a daily basis, including Max Margin usage and end of day RAV Limit.
- Limit Colors: Limits will appear with a color to acknowledge the status (including recent updates):
 - Green: Currently applied limit

- Orange: An open transaction exists for a recently updated (pending) limit. To view details, move the mouse pointer over the limit to view an informational message.

-Red: A requested limit update is not applied due to an error. To view details, move the mouse pointer over the limit to view an informational message, which can provide details on resolving the error.

Limits with pending or error status cannot be copied or updated via the bulk / upload update process.

• Inline Credit Controls (ICC): (optional) Specify Clearing and / or Execution Firm position limits.

For the Permissible Products field, select from available options:

- Show all products with unique limits: Filter the Product list to products that have user specified limits.
- Show all products tradable in this account: View all authorized products, via Market Types Available Products.

For each product that will be authorized, specify the **Max Qty Long / Max Qty Short**; applicable for futures and/or options.

Note: For Globex ICC only: Default value is Not Set, which uses the Globex Admin Policy settings to determine order entry and trading permission.

Admin Settings - Unset Limit Rule: When limits are *not set* (by either Clearing Member or Execution Firm) for the specified account, the account is limited to trading products within the overall firm <u>Credit Limit</u>. Additional considerations: Refer to calculation option limits, below.

- 8. To finalize, select **Save**, then select an account creation option:
 - Active: Finalize credit controls and activate the account. Additional configuration, for other applications / services, may be necessary.
 - Inactive: Finalize credit controls, but do not activate the account. Additional configuration can be performed or the account configuration can be used as the basis for additional related accounts (via the <u>Account Copy</u> function).

Create Account		\otimes
Create Account as Active Inactive		
	Cancel	ОК

Note: To activate the account later, search for the inactive account, go to the Account Settings page, then select Activate.

Creating Trading Account / Trading Sub Account

Using the Accounts functionality, authorized users can create and manage Trading Accounts and Trading Sub-accounts associated with existing an account.

The following Clearing Account settings affect availability of Trading Sub-Account creation.

- Account Owner / LEI: Account owner (or LEI) must be authorized for ClearPort Clearing and / or CME Direct (CME Globex).
- Holding Account: Do not select, Trading Sub-Account creation will be unavailable.
- **Delegated Intermediary**: After sub-account creation, DI account cannot be unchecked.
 - Selected: To specify another trading account as the owner.
 - Not Selected: Trading Sub-Account trades will clear through the parent Trading Account (Owner).

Authorized users:

- Clearing Firm Account Administrator: Manages Clearing, Delegated intermediary (DI) and Customer (Parent) accounts.
- Sub-Clearing Member Firm Account Administrator: Manage execution firm ICC enabled accounts, when the registered clearing firm is guaranteed by a parent Clearing Member Firm.
- Trader Administrator: View, create and manage Delegated Intermediary accounts.

View sub-account account information, but cannot edit Sub-Account configuration or view relationship to delegated intermediary account.

• Trader Risk Administrator: View, create and edit Trading Sub-Accounts, including owner firm, broker firms, traders, services and status.

Users can only manage services and entitlements which they are also entitled.

Example: To assign CME ClearPort and CME Direct services, the administrator must be entitled for CME ClearPort and CME Direct.

Account Types:

- Delegated Intermediary (DI)
 - If a clearing account is designated as Delegated Intermediary (DI), specify the clearing member firm.
 - Additional details are inherited from Trading Account Owner.
 - Managed by Clearing Firm Account Administrator, for a non-member clearing firm.
 - Trading sub accounts clear through this DI or other designated clearing account.
 - Can assign any CME ClearPort registered trading firm as the trading sub account owner.
 - Manages individual customer account level risk management.
 - DI (parent) accounts cannot be updated via Bulk upload.
- Customer (Parent) Account
 - Managed by Clearing Firm Account Administrator.
 - Designated as the Owner Firm.
 - Once created, the Account Owner cannot be modified or deleted.
 - Assigned services and entitlements apply to Trading Sub-Accounts.
 - Enables Trading Sub Account level risk management.
- Trading Sub Accounts
 - Managed by Trading Firm Trader Risk Administrators.
 - Viewable by the Trader Administrator and sub-account users.
 - Owner firm, services are inherited from the clearing account owner and trading, which cannot be added or removed.

Creating Trading Account / Trading Sub-Account

Prior to creating a <u>Trading Sub-Account</u>, a Clearing Firm Administrator must create or assign a Trading Account [parent / delegated intermediary (DI)].

To verify trading account availability or enable an account as a trading account, conduct a <u>search</u>, Assign the Account Owner and Delegated Intermediary (if applicable).

A user with <u>Trader Risk Administrator</u> entitlements and access to the Trading (parent) account is authorized to create Trading Sub-Accounts.

To Create a Trading Sub-Account:

1. From the Accounts menu, select Create New Account.

Clearing Member	Account Number	Description
Choose a Clearing Member	* Enter Account Number	* Enter Description
Owner Firm	Asset Manager (Controller) Firm	n
Enter Owner	Enter Asset Mgr	

2. On the account creation screen that appears, enter required details:

Services

ClearPort Clearing and / or CME direct (CME Globex) Clearing Member

Clearing members assume financial and performance responsibility for all transactions executed through them and cleared by CME Clearing whether it is for the account of a customer, member, or their own account. Account Number

The alphanumeric identifier for CME ClearPort or CME Globex accounts.

- CME ClearPort: Up to 20 characters.
- CME Globex: Up to 12 characters.

Do not use the following special characters in the first, second or last position.

@	at
%	percent
٨	caret
&	ampersand
(left parentheses
)	right parentheses
-	underscore
=	equal
{	left brace
}	right brace
[left bracket
]	right bracket
1	vertical bar
\	backslash
:	colon
;	semi colon

н	double quote
1	single quote
<	less than
>	greater than
,	comma
	period

Description

User specified identification details Owner Firm

The Trading firm owner of this account.

Available if the clearing account is designated as Delegated Intermediary (DI); specify by the clearing member firm. Additional details are inherited from Trading Account Owner. DI (parent) accounts cannot be updated via <u>Bulk upload</u>. **Owner's Primary Business Activity**

Required Firm LEI

Firm Legal Entity Identifier - Available at <u>http://www.ciciutility.org</u>. Country of Origin

Appears when a dynamic (not registered) owner firm is specified Asset Manager (Controller) Firm

Enter the name in the field; available choices appear based on the partially entered name. For DI and sub-accounts: If an asset manager firm is assigned to the clearing account, trading sub-accounts cannot be created and the DI selection will not be available. House / Customer Indicator

Indicates whether the account represents customer segregated funds or house funds. **CTI Code**

CTI1 - An individual member trading for her or her own account, CTI2 - A member firm trading for its proprietary account, CTI3 - A member firm trading for another member, CTI4 - All others individuals. **Holding Account**

Do not select, Trading Sub-Account creation will be unavailable Portfolio Margin Futures

Enables the account for the CME Portfolio Margining program for futures. **Delegated Intermediary (DI)**

Specified by the clearing member firm administrator. **Not Selected:** The trading sub-acocunt will clear through the parent Trading Account (Owner). **Selected:** Specify another trading account as the owner **Margin Account**

Enables multiple customer accounts to aggregate trades to calculate OTC trade cross-account margin offsets.

Associate accounts with clearing member / beneficial owner.

Designate the master / margin account for CME ClearPort enabled accounts.

To assign accounts to a master / margin account:

Accounts must be associated with the same Clearing Member Firm, beneficial owner.

CME ClearPort service must be enabled for the accounts.

For non-CME ClearPort accounts, the margin account is **Self**, which assigns the same account number as the owner.

<u>Select Services</u>: Trading Account / Trading Sub-Account is only available for CME Direct (CME Globex) and CME ClearPort.

CME ClearPort

- a. From the Services pane (also known as Platform), select ClearPort Clearing.
- b. On the Services pane, specify CPC Account Attributes
 - Account Type: Select None.

Services		Enable for STP ONLY
CME Direct (CME Globex) Enable	ClearPort Clearing	ICC (CME Globex) Enable
		Cancel
1: Setup 2: Market Type Perr	missions 3: Product Perr	missions 4: Broker Permissions 5: Credit Controls
CPC Account Attributes		
Account Type		
None Holding		
Client Risk Ma	ster	
Short Code		

c. To continue, select Market Type Permissions.

CME Direct (CME Globex)

- a. From the Services pane (also known as Platform), select CME Direct (CME Globex).
- b. On the **Services** pane, enter the iLink Session ID(s) to enable; as you enter matching IDs appear in a list, select to **Add**.

Services			Enable for STP ONLY
CME Direct (CME Globex)	ClearPort Clearing Enable	ICC (CME Globex) Enable	
			Cancel
1: Setup 2: Market Type Per	missions 3: Product Perm	hissions 4: Broker Permission	5: Credit Controls
CMED Account Attributes			
iLink Session ID Select an iLink Session ID			

iLink Session ID: Also known as SenderComp, which is obtained from <u>Global Account Man-agement</u>.

This ID, used for in-house brokerage purposes, is submitted with trades, and associated with referenced Clearing Member firms.

iLink Session ID		
	[CME:	
	[COMEX:	ALC: NOT THE OWNER OF THE
	[DME:	a countries
	[FXS:	a concentration of the second
	[KCB:	17.46
	[MGE:	-

Clearing Firms can assign a default iLink Session ID / SenderComp for in-house Broker entities.

Available options:

- OK: Proceed without selecting an iLink Session ID.
- Cancel: Select an iLink Session ID, go back and select an iLink Session ID.

Note: If an iLink Session ID is not selected, a dialog appears and must be acknowledged before proceeding with account setup.

c. To continue, specify Market Type(s) and Product Permissions.

Specify Market Permissions:

After confirming Account <u>Settings</u> and <u>Services</u>, select **Market Types** and **Access**. Available options:

- None: Submitting orders for this Market Type, including all Products, is restricted.
- Specific: Requires selection of individual product permissions.
- All: Enable order submission for this market type and all products.

1: Se	etup 2: Market Type Permissions	3: Product Permissions 4: Broker Permissions 5: Credit Controls
Mark	ket Type Permissions	
	Market Type	Access
	CME Agriculture (Globex)	None Specific All
	COMEX (Globex)	O None O Specific • All
	DME (Globex)	None Specific All
	FX Link (Globex)	• None O Specific
	NYMEX (Globex)	None Specific All

Note: Specific and All, requires credit and maximum long / short quantity limits; configured with the Credit Controls function.

Set Product Permissions:

On the Product Permissions page, select from Available Products, then add at least one product.

Account Management Service

CME Ag	riculture (Globex)
Available Products	Selected Products
Search Products	Search Products
1AD / 1AD - AUD/USD Weekly Premium Quoted Eur 1BP / 1BP - GBP/USD Weekly Premium Quoted Eur 1CD / 1CD - CAD/USD Weekly Premium Quoted Eur 1EU / 1EU - EUR/USD Weekly Premium Quoted Eur 1JY / 1JY - JPY/USD Weekly Premium Quoted Eur 2AD / 2AD - AUD/USD Weekly Premium Quoted Eur 2BP / 2BP - GBP/USD Weekly Premium Quoted Eur	 ▲ ↓ ↓ ↓ ↓ ↓ ↓

- Add: 🕑 / Add All: 🔊
- Remove: < / Remove All: <

To find a specific product, enter the symbol or name in the search field; partial entries are accepted.

3. Select and Specify Credit Controls.

Creating Trading Sub-Account

- 4. Search and select the **Trading Account**.
- 5. From the Trading Sub Accounts pane, select **Create New** and enter required information.
 - Account Number: required
 - Description: required
 - **Owner Firm**: Available if the clearing account is designated as DI (by the clearing member firm), otherwise, this is inherited from the Trading Account Owner.
 - Status: Active: Account is available immediately. Inactive: Resume or edit account details, before activating.

Trading Su	Trading Sub Accounts Create New												
Account	Number	Description	Owner Firm	Clearport Broker F	īrms	Globex Broker	Firms	Traders	Serv	ices Enabled	Status		
-		100		International Contemporture of					CPC		Active	C 0	
	Account	t Number	Description	Owner Firm	Clearpo	rt Broker Firms	Globex Fin	Broker ms	Traders	Services Enabled	Statu	\$	
										CPC	Active	٣	××

6. To finalize, select ✓.

Trade Type Restriction

Use the Trade Type Restriction function to restrict CME ClearPort enabled accounts from submitting block trades. Additional functions:

- View account-level trade type restrictions.
- Block Trade: Privately negotiated futures, options or combination transaction that is permitted to be executed apart from the public auction market. Minimum order size requirements, vary according to product and order type. Only negotiated with futures, options on futures and CBOT swap trades; excludes all other basis trades.

D To view and manage Trade Type Restrictions:

- 1. Select the Trade Type Restriction menu, then perform a **search**.
 - Clearing Member: View restricted accounts, organized by Account Numbers and Trading Firms.
 - Trading Firm: View and Edit restricted accounts for the Clearing Member and Trading Firm combination.
 - Trade Type: Block (default selection).
 - Short Code: Select to view only accounts flagged as short code accounts.

Account Manageme	nt Dashboard	Account	Trade Type F	Restriction	0 ∿⊠0
Trade Type Restriction By A	ccount	Create New Account	🕹 Download	🕹 Upload	🛓 Max Usage Download
Clearing Member	Trading Firm - Select a Trading Firm - 🔻	Trade Type BLOCK V S	hortCode	Search	

2. For the given Clearing Member / Trading Firm selection, a list of available accounts appear.

Trade Type Restriction E	By Account		🛓 Download	🌲 Upload
Clearing Member Total Restricted Accounts: 23 Total Available Accounts: 4	Trading Firm trading firm	Trade Type ▼ BLOCK ▼ ■ ShortCode	Search	Edit
Show 10 • entries		S	earch:	
Accoun	t Number 🔺	Trading Firm 🔺		
\$COMMON10		005 trading firm		
ADSFASDFS		005 trading firm		

- 3. For selected Clearing Member / Trading Firm combination, select Edit.
- Select from available accounts to restrict (from submitting block trades), then select add(▷/▷) / remove(</...).
 To select one or more accounts, press (CTRL + select) accounts.

Trade Type Restrict	rade Type Restriction By Account						
Clearing Member	Trading Firm trading firm v	Trade Type BLOCK v	ShortCode	Cancel Save			
Available Accounts Search Accounts JOE1737 JOE83838	Selected Accounts Search Accounts SCOMMON10 C C C C C C C C C C C C C C C C C C C	•					

5. To finalize, select **Save**.

Managing Accounts / Credit Controls

The Account Edit function is used by authorized firm administrators to edit information for an existing account or prior to account activation. Only accounts with full entitlements can edit, deactivate, delete, copy, bulk upload accounts.

Example: A firm administrator entitled for CME ClearPort cannot edit CME Globex accounts.

To edit account details:

 \triangleright

1. Go to the Accounts page, then perform a search.

Account Management		Dashboard	Account	Trade Type Restriction	
ccount List				Create New Account	📩 Download
Account Type	Service	Account	t Number	Account Alias	Sp
Clearing Acct 🗸 All 🗸		 Accou 	int Number	Account Alias	S
Clearing Member		Account Ow	ner / LEI	Execution Firm	ı
Clearing Member		Search By	Owner or LEI	I Text Search	EF

From the results that appear, select a blue hyperlinked account number.

Account Management Service

Account List				(Create New Account	Download	🏝 Upload	🕹 Max Usage Download	
Account Type Clearing Acct 🔹	Service	Account Numb	er Spot FX	(Ref Number FX Ref Number	Clearing Member				
Account Owner / LEI Search By Owner	Account Owner / LEI Execution Firm Status Search By Owner Text Search EF All Search								
Show 10 v entries		<u>j</u>					Search	h:	
Account Number 🔺	Spot FX Re	f Number 🔺	Account Groups	Clearing Member 🔺	Account Owner 🔺	Executi	on Firm 🔺	Account Status 🔺	
TEDDY2				MP Chilad	* PHIBRO LLC			Active	
TEDDY3				MP Oblig	• PHILIP LLC			Active	
TEDDY4				MT DOUGH	 PHIBRO LLC 			Inactive	

NOTE: If text is displayed in **red**, the assigned product or entity is no longer eligible due to assigned permissions. Contact <u>Global Account Management</u> for details.

- 2. From the page that appears, select **Edit**, then review the below instructions:
- <u>Account Functions</u>
- <u>Clearing Account Settings</u>
- Services
- Account Details
- Credit Controls
- Copy Account
- Uploading account limit updates
- Suspend / Allow Execution Firm Order Entry
- Save Updates
 - a. Account Functions
 - Deactivate
 - Сору
 - Bulk Upload
 - Delete

Account (1234567) Back To Search									
				De	activate	Copy Bulk U	Delete		
Clearing Accour	nt Setti	ngs					Edit ^		
Clearing Member	Accou	int Number	(Alias)	Description					
Clearing1	1234	567		test					
Owner Firm	Asset	Manager (C	ontroller)	Firm					
Account-Owner									
House/Customer Inc House	dicator	CTI Code 2	Portfolic Not Ena	o Margin Futures a bled	Delegated Not Enable	Intermediary (DI) ed	Margin Account 0000A		

b. Clearing / Execution / Trading Account Settings

For a list of field details, refer to Clearing Account Settings

Clearing Account	t Settings			Cancel Save	^
Clearing Member CLEARING1	Account Number (Alias) 1234567	Description * test			
Owner Firm		Asset Manager (Con	troller) Firm		
* Account-Owne	r	Enter Asset Mgr			
House/Customer Ine ★ ○ Customer ® Hou	dicator CTI Code Po se * 2 •	ortfolio Margin Futures Enable	Delegated Intermediary (DI Enable) Margin Account 000A \$]

c. Services

- ClearPort Clearing: Account Attributes
- CME Direct: iLink Session ID, Broker Permissions, Market Type, Products
- ICC: Execution Firms, Credit Control

Configuration options include:

- **Remove the Service**: After confirming removal, the account will not be able to submit orders for markets and products.
- Edit Account Attributes / Details / Configuration: For details on editable fields, refer to Service (Platform) descriptions: ClearPort Clearing, CME Direct (CME Globex), ICC (CME Globex).

ervices					Enabled fo	or STP
ClearPort Clearing	CME Direct ((CME Globe)	<) 🕒	ICC (CME Globex) 🚺		
Account Details Cre	dit Control I	Details		Remove	CPC	
CPC Account Attribut	es	Edit	Broke	er Permissions	Edit	
Agency Cross Ac Enabled No	count Type ne		Sear	ch for a broker firm Group Inc. GCC		
Market Type and Proc	luct Permiss	sions		Edit Market Type	Edit Products	
**Risk Method: CME Ho	sted					
Market Type	Access	Product				
CBOT (ClearPort)	All					
CBOT Swaps (ClearPort)	Specific	CCS - CBT DFL - CBT DFT - CBT DG2 - CBT DG3 - CBT	- Corn C - DAP Fi - DAP Fi - DJ-UB - DJ-UB	alendar Swap DB NOLA Swap DB Tampa Swap S CI 2M Swap S CI 3M Swap	▲ ▼	

d. Account Details

- Account Attributes (ClearPort Clearing), iLink Sessions (CME Direct), Execution Firms (ICC)
- Broker Permissions
- Market Type
- Products

rvices				Enabled
learPort Clearing	CME Direct	(CME Globex) 🕒	ICC (CME Globex) 🕒	
Account Details	Credit Control I	Details	Remove	CPC
CPC Account Att	ributes	Edit Bro	oker Permissions	Edit
Agency Cross Enabled	Account Type None	Se	earch for a broker firm //E Group Inc. GCC	
Market Type and	Product Permiss	sions	Edit Market Type	Edit Products
Market Type and	l Product Permiss 1E Hosted	sions	Edit Market Type	Edit Products
Market Type and ** Risk Method: CM Market Type	I Product Permiss IE Hosted Access	Product	Edit Market Type	Edit Products
Market Type and ^{**} Risk Method: CM Market Type CBOT (ClearPor	I Product Permiss IE Hosted Access t) All	Sions Product	Edit Market Type	Edit Products

Account Details screen - ClearPort Clearing:

Account Details screen - CME Direct (CME Globex):

Services				Ena	bled for STP
CME Direct (CME Globex)	IC	C (CME Globex)	ClearPort Clearing	Cross Venue Risk 🚺	
Account Details Credit	t Contro	Details		Remove C	MED
iLink Session ID		Edit	Broker Permissions	Edit	
iLink Session ID			Search for a broker	firm	
[CME: [COMEX: [DME: [MGE: [NYMEX:		×	0 0 0 0	▲	
Market Type and Pr	oduct Pe	ermissions	Edit Market Ty	pe Edit Products	
Market Type	Access	Product			
CME Agriculture (Globex)	Specific	1CD / 1CD - CAD/US 2pmFix Week 1 1JY / 1JY - JPY/USI 2pmFix Week 1 1SF / 1SF - CHF/USI 2pmFix Week 1 2AD / 2AD - AUD/US	5D Weekly Premium Quoted Europe 9 Weekly Premium Quoted Europea 9 Weekly Premium Quoted Europea 90 Weekly Premium Quoted Europe	an Style Option an Sty	
COMEX (Globex)	Specific	H3E / H3E - Copper H4E / H4E - Copper H5E / H5E - Copper L01 / L01 - Short-Te L02 / L02 - Short-Te	Weekly 3 Option Weekly 4 Option Weekly 5 Option rm Gold Option rm Gold Option		
NYMEX (Globex)	All				

Services				E	nabled for STI
CME Direct (CME Globex) ICC (CM	IE Globex) ClearPo	rt Clearing 📵			
				C	Remove ICC
Execution Firms					Edit
*** Account has not been synced ***123 TRADING (123) Suspend Order	er Entry				
Credit Control					Edit
Execution Firm AAA - BBB (123)	~		± 0	ownload 1	Upload
Product Group		Product			
AL	\$	¢ ALL	\$]	
Show products with individual lim	its only				
* Limits appearing in Green are enforced limit	s;		Search:		
			CMF Limits	EF	Limits
Product Group A Pro	oduct Name (Symbol.Type) 🔺	Restricted A	Max Qty Max Long Sho	Qty Max Qty ort Long	Max Qty Short

Account Details screen - ICC (CME Globex):

- e. Market Type Permissions: Goes to Step 3 Market Type Permissions.
- f. Product Permissions: Goes to Step 4 Product Permissions.
- g. Broker Permissions: Broker Permissions: ClearPort and CME Direct only.

Goes to Step 4 - Broker Permissions.

h. Credit Control Details



- Currency
- RAV (CME ClearPort) / Credit Limit (CME Globex)
- Permissible Products
- Limits

						Cancel Save
I: Setup	2: Market	Type Permissions	3: Product Permis	ssions 4: Broker	Permissions	5: Credit Control
Credit Cont	rol					
Currency Japanes	se Yen 🔻	RAV Limit 99999999999999	Margin Usage 999 ¥0	Remaining Margin ¥999,999,999,999	% Margin Used 0 %	
Permissible	Products Show	w all products tradable	e in this account 🔻 🔽	et All Unset Limits to Zer	ro Search:	

3. After editing each section, select **Save**. or select the next tab.

Updates are effectively immediately.

Additional Account functions:

🗙 Account Managen	nent Service 🖌					
Account Management				0	د <u>∎</u> (9 ~
Account (1234567)					Back T	o Search
		De-activ	vate Copy	Bulk Up	pload	Delete
Clearing Account Se	ettings				Edit	~
Services					Enabled f	or STP
ClearPort Clearing	CME Direct (CME GI	lobex)	ICC (CME Glob	ex)		

• **Copy**: Copy current account configuration as the basis for a new account.

Note: Accounts enabled for ICC cannot be copied.

- <u>Creating Accounts via Upload</u>: Create multiple accounts via an upload process; using an existing account as a template.
- Updating Account Limits via Upload: Use the upload function to manage multiple product limits for an execution firm.
- Suspend Order Entry / Allow Order Entry: To Prevent / Allow order submission from the currently selected account, select an account, select the ICC (CME Globex) tab, then select Suspend / Allow Order Entry.
| Account (123456 | 7) | | | | | | | Back | To Search |
|--|-----------------------------|--|----------------------------|----------------------------------|----------------------------|---------------|-------------------------|------------------|-----------|
| | | | | | | De-activate | Сору | Bulk Upload | Delete |
| Clearing Account | Setting | 6 | | | | | | Edi | ^ |
| Clearing Member
Clearing1
Owner Firm | Accoun
123456
Asset M | t Number (Alia
5 7
anager (Contro | s) De
Te
oller) Firn | escription
est
n | | | | | |
| House/Customer Inc
House | dicator | CTI Code
2 | Portfoli
Not En | o Margin Futures
abled | Delegated Inter
Enabled | rmediary (DI) | Margir
0000 / | n Account
AAA | |
| Services | | | | | | | | Enabled | l for STP |
| CME Direct (CME Glo | bex) | ICC (CME G | lobex) | ClearPort Clea | ing Enable | | | | |
| | | | | | | | | Remove | ICC |
| Execution Firm | ns | | | | | | | Edit | |
| *** Account has
***Exec firm1 (0 | not been s
000) (Order | synced
Entry Suspended | i) Al | low Order Entry | | | | | |

- Save / Finalize:

 - Deactivate: After confirming deactivation, the account cannot submit orders for previously authorized services.
 - Delete: From the Account Settings page, Delete the account, then confirm the selection.

Creating Accounts via Upload

In addition to creating individual <u>accounts</u>, authorized users can upload a file to create multiple CME Direct and / or ClearPort accounts based on an *existing* account.

To create accounts via file upload:

1. From the Account page, perform a clearing account <u>search</u>.

Clearing Account - Search Criteria:

Account Type Clearing Account Trading Account Service CME Direct (CME Globex) Inline Credit Controls [(ICC)(CME Globex)] CME ClearPort Cross Venue Risk CME Straight Through Processing (STP) Account Number The alphanumeric identifier for ClearPort or Globex accounts. ClearPort account numbers may be up to 20 characters. Globex account numbers may be up to 12 characters. Spot FX Ref Number Optional user specified external reference number Clearing Member Registered member clearing firm Account Owner Specify name or Legal Entity Identifier

Account Management		Dashboard Account Trade		Trade Type Restriction
Account List				Create New Account
Account Type	Service	Account	t Number	Account Alias
Clearing Acct 🖌 All		Account Number		Account Alias
Clearing Member		Account Ow	ner / LEI	Execution Firm
Clearing Member		Search By Owner or LEI		I Text Search EF

2. On the Account(s) List search results page, select **Download** (**Download**).

A list of accounts is downloaded to the default download directory. The MS Excel file (*Accounts.xlsx*) includes Clearing Account Settings, Services, and Account Details (e.g. <u>Broker, Market Type, Products</u>).

Account List			Create New Account	≵ Download ≵ Uplo	oad 🛛 📥 Max Usa	age Download
Account Type Clearing Acct Account Owner Search By Owner	▼ All	e Account Numb 6767 Execution Firm Text Search E	er Spot FX Ref Nu Spot FX Ref Status F All T	umber Clear Number Clear	ing Member aring Member	
⁻ denotes CME SEF reg Show 10 ▼ entri Account S Number ▲	gistered firm ies Spot FX Ref Number 🔺	* denotes holding account Account Groups	▲ Clearing Member ▲	Account Owner 🔺	Search: Execution Firm	Account Status ▲
-						Active
						Inactive

To update credit controls for one or more execution firms, select an ICC (CME Globex) account and execution firm.

For details, refer to Uploading ICC Limits / Credit Controls.

For the rows you intend to update, enter X in the ACTION column, then enter account details (new / existing).
 For detailed data descriptions, view the <u>Account Settings</u>.

	Α	В	C	D	E	F	G	Н
1	ACTION	CLEARING_FIRM	CLEARING_ME MBER_FIRM_ID	CLEARING_MEMBER _CLEAR_ORG	ACCOUNT_NUMBER	PB_ACCOUNT_NU MBER	DESCRIPTION	EXECUTION_ FIRM_ID
2		123	456	CME	!6767		Performance	
3		123	456	CME	16767A		Performance Test124-10	
4		123	456	CME	!6767B		Performance Test124-10.	
5		123	456	CME	!6767C		Performance Test124-10.	
6		123	456	CME	16767CP6		Performance Test124-1	
7		123	456	CME	!6767D		Performance Test124-10.	
8		123	456	CME	6767COPY		Performance Test124-10	
9		123	456	CME	ACCT6767		ACCT6767	8T4

4. Save the spreadsheet updates, then select Upload (Lupload).

Account List		Cre	eate New Account 🕹 Download	🕹 Upload 🕹 Max Usage Download
Account Type Clearing Acct 🔹	Service All v	Account Number 6767	Spot FX Ref Number Spot FX Ref Number	Clearing Member Clearing Member
Account Owner Search By Owner		Execution Firm Text Search EF	Status All v Search	

5. From the drop down menu, select ICC_Account, Choose a File, then select Upload & Verify.

Upload ICC Accounts/Limits	\otimes
ICC_Account •	
Please select the excel file: Choose File Accounts (1).xlsx	
Selected File: C:\\Accounts (1).xlsx	
Upload & Verify Cancel	
_	I.

Note: Uploads are limited to 20,000 records / rows per upload.

The uploaded file is evaluated and validation dialog appears:

• Success: A confirmation message lists submitted updates, fields and values for each spreadsheet row.

Upload ICC	Accounts/Limits		\otimes
ICC_Accou	Uploading Staging	\otimes	Î
Please sel	Validation of your upload file has completed. Please check the results below and click 'Submit' if you would like to proceed with the valid		
Selected	changes.		
vernication			- 1
Submit	ОН		
Total proces	sed: 1; Error: 0; New Entries: 0; Updates: 1; No Updates: 0		

• Failure: An error message appears, with recommended resolution.

When uploading after an error, select **New** then choose the updated spreadsheet.

6. After receiving a successful validation message, select **Submit**.

Upload ICC Accounts/Limits	\otimes				
ICC_Account					
Please select the excel file: Choose File Accounts (1).xlsx					
Selected File: C:\\Accounts (1).xlsx					
Verification is done. Some Creations/Updates are ready to be Submitted	- 1				
100%					
Submit Cancel					
Total processed: 1; Error: 0; New Entries: 0; Updates: 1; No Updates: 0					

Upon completion of the upload, select **OK**, then close the Upload dialog.

Upload ICC	C Accounts/Limits		\otimes
ICC_Accou	Uploading Done	\otimes	Â
Please sel Selected	Your current upload job is done. Click 'New' to start a new upload.		
All Done.			
Submit Total proces	ssed: 1; Error: 0; New Entries: 0; Updates: 1; No Updates: 0	ок	
			-

Max Usage Download

From the Accounts page, Select Max Usage to download a list of ICC accounts, for a given Execution firm, and the maximum credit usage within a specified date range.

To view maximum usage:

- 1. Select the **Account** menu to go to the Account List page.
- 2. Select the Max Usage Download link.

Account Type Service Account Number Spot FX Ref Number Clearing Member Clearing Acct All Account Number Spot FX Ref Number Clearing Member	ccount List			Creat	New Account	🛓 Upload	📥 Max Usage Downloa
Clearing Acct • All • Account Number Spot FX Ref Number Clearing Member	Account Type	Service		Account Number	Spot FX Ref Number	Clearing N	fember
	Clearing Acct 🔹	All	٠	Account Number	Spot FX Ref Number	Clearing	Member
Account Owner Evention Eiron Statue	Account Owner			Evention Firm	Status		

3. On the window that appears, specify the Execution Firm and the Date range, then select Download.

The downloaded MS Excel compatible spreadsheet will display a list of ICC accounts for the execution firm and the maximum credit usage within the date range.

Max Usage Download			\otimes
Select an Execution Firm Type to select an Execution Firm	Start Date	End Date 2021-12-20	oad

Updating ICC Account Limits via Upload

The following instructions illustrate the process to use the upload function to manage multiple product limits for an execution firm that uses ICC.

To update ICC Credit Controls via Upload:

- 1. Perform an account search and select an ICC (CME Globex) enabled account,
- 2. From the Services pane, select ICC (CME Globex).

Services			Enabled for STP
ICC (CME Globex)	CME Direct (CME Globex) Enable	ClearPort Clearing 🚺	

3. On the **Credit Control** pane that appears, select the **Execution Firm**, deselect **Show products with individual limits only**, then **Download** the spreadsheet.

Credit Control						Edit
Execution Firm AAA - BBB (123) ~ Product Group ALL	Product ALL		÷	≛Do	wnload	🏝 Upload
Show products with individual limits If Product limits are not set, all orders for Limits appearing in Green are enforced lim	: only the product will be accepted hits;		Sea	rch:		
			CMF	Limits	EF L	imits
Product Group 🔺	Product Name (Symbol.Type) 🛥	Restricted	Max Qty Long	Max Qty Short	Max Qty Long	Max Qty Short
ALT INVESTMENT - COMMODITY INDEX - DJ UBS CI	BTIC on Bloomberg Commodity Index Futures (AWT.FUT)		Not Set	Not Set	Not Set	Not Set

- 4. Open the downloaded spreadsheet (*account-number*-credit.xlsx), then update the maximum permissible **long / short limits**, for the Clearing Member Firm and/or Execution firm.
- 5. For all updated rows, enter **X** in the **Action** column, then **save** the updates.

	A	В	С	D	E	F	G	Н	1	J	K	L	М
		CLEARING_ME	CLEARING_ME							CMF_			
		MBER_FIRM_I	MBER_CLEAR_	ACCOUNT_	EXECUTION	PRODUCT_	PRODUCT_	PRODUCT_	CMF_L	SHOR			PRODUCT_LONG_NA
1	ACTION	D	ORG	NUMBER	_FIRM_ID	SYMBOL	TYPE	EXCHANGE	ONG	Т	EF_LONG	EF_SHORT	ME
2	x	123	CME	123	123	00C	FUT	CBT	1	. 1	1	1	TEST CORN FUTURE
3		123	CME	123	123	00N	FUT	CBT					TEST 10-YEAR U.S. TR
4		123	CME	123	123	00S	FUT	CBT					TEST SOYBEANS FUT
5	x	123	CME	123	123	06E	FUT	CME	5	5	5	5	TEST EUR/USD AMER
6		123	CME	123	123	0A	FUT	NYMEX					Mini European 1% Fu
7		123	CME	123	123	0AU	FUT	CME					TEST PRODUCT AUST

6. On the Credit Control pane, select **Upload**.

edit Control						Edit		
ecution Firm				📩 Dow	nload	Upload		
AAAA - BBB (123) 🔻								
roduct Group		Product						
ALL	\$	ALL		\$				
Show products with individual li	nits only							
Product limits are not set, all orders imits appearing in Green are enforce	for the product will be accepte I limits;	ed	Se	arch:				
				CMF Limi	its	EF Limits		
Product Group 👻	Product Name (Symbo	ol.Type) 🔺	Restricted	Max Qty Long S	Max Ma Qty Qty Short Lon	x Max 7 Qty g Short		
ALT INVESTMENT - COMMODITY IND	BTIC on Bloomberg Comp	nodity Index Futures		Not No	ot Set Not S	et Not Set		
Note: Account limi	(AWT.FUT) s can also be uplo	aded from the	e Accour	nt List pa	ageSele	ct Uplo a	ad, ICC	_Limits
DJ UBS CI Note: Account limi Upload ICC Accounts/Lim ← Choose a Type — ✓ Please select the excel file: Upload & Verify Cancel	(AWT.FUT) s can also be uplo ts Choose File No file ch	aded from the	e Accour	a File.	ageSele then se	ct Uploa	ad, ICC	_Limits
Note: Account limi Upload ICC Accounts/Lim Choose a Type Please select the excel file: Upload & Verify Cancel Account List	(AWT.FUT) s can also be uplo ts Choose File No file ch	aded from the Sosen	e Accourr Choose	a File,	ageSele then se	ct Uploa	ad, ICC	_Limits /erify
DJ UBS CI Note: Account limi Upload ICC Accounts/Limi Choose a Type ~ Please select the excel file: Upload & Verify Cancel Account List Account Type Ser Clearing Acct Account	cAWT.FUT) s can also be uplo ts Choose File No file ch	aded from the Sosen Create New Acc ber Spot FX R Spot FX	e Accourt Choose ount 2 Do ef Number Ref Number	a File,	ageSele	ct Uploa lect Uplo Max Us mber lember	ad, ICC	_Limits
Note: Account limi Upload ICC Accounts/Lim Choose a Type Please select the excel file: Upload & Verify Cancel Account List Account Type Ser Clearing Acct Account Owner	Image: scan also be uplo s can also be uplo ts Choose File No file ch ice Account Num I Execution Firm	aded from the Solution osen Create New Accord ber Spot FX R Spot FX R Spot FX	e Accourt Choose ount ▲ Do ef Number Ref Number	a File,	ageSele	ct Uploa lect Uplo Max Us mber tember	ad, ICC	_Limits

8. Choose the File, then select Upload & Verify.



Note: Uploads are limited to 20,000 records / rows per upload.

The uploaded file is evaluated and validation dialog appears:

• Success: A confirmation message lists submitted updates, fields and values for each spreadsheet row.

Upload Cr	edit Limits	\otimes
Discossi	Uploading Staging	^
Selected	Validation of your upload file has completed. Please check the results below and click 'Submit' if you would like to proceed with the valid	
Verification	changes.	
Submit	_	
Total proce	OK	
ROWS UP	DATES (count 1)	-

• Failure: An error message appears, with recommended resolution.

Example: Incorrect data, Action column not marked with X.		
Upload Credit Limits	\otimes	
No rows have been marked for Upload. Please use $\left[^{\star},x,X\right]$ in the ACTION column, to indicate which row you would like to upload.	Î	
Please select the excel file: Choose File -credit.xlsx		
Selected File: C:\\ -credit.xlsx		
Starting Parsing rows		
100%	- 11	
Upload & Verify New	-	
3		

When uploading after an error, select New then choose the updated spreadsheet.

9. After receiving a successful validation message, select Submit, then select OK to close the upload dialog.

Upload Credit Limits	\otimes
Selected File: C:\\ -credit (1).xlsx Verification is done. Some Creations/Updates are ready to be Submitted	^
100%	
Submit Cancel Total processed: 1; Error: 0; New Entries: 0; Updates: 1; No Updates: 0	
ROWS UPDATES (count 1)	
#36 CMF_LONG set to "1"	
#36 CMF_SHORT set to "1"	+

Managing ICC Credit Controls for Multiple Execution Firms

The following instructions illustrate the process to use the upload function to manage product limits for multiple execution firms, including blocking order submission for a given product.

Summary:

- a. Search and download clearing firm *accounts* list; step <u>1 2</u>.
- b. Search for an account, then update execution firm (product) credit controls; step 3-5.
- c. Download account execution firm *credit controls* spreadsheet; to use as a template; step 6 7.
- d. Copy execution firm details (template) to new spreadsheet rows, step 8.
- e. On the new spreadsheet rows, update account and execution firm information (from clearing firm accounts spreadsheet); step 9.
- f. Upload and validate *credit controls* spreadsheet; step 10 12.

To manage multiple execution firm product limits, via upload:

1. From the **Account** page, perform a clearing account **search**, for ICC authorized accounts.

Clearing Account - Search Criteria:

Account Type Clearing Account Trading Account, Service CME Direct (CME Globex) Inline Credit Controls [(ICC)(CME Globex)] CME ClearPort Cross Venue Risk CME Straight Through Processing (STP), Account Number The alphanumeric identifier for ClearPort or Globex accounts. ClearPort account numbers may be up to 14 characters. Globex account numbers may be up to 12 characters., Spot FX Ref Number Optional user specified external reference number, Clearing Member Registered member clearing firm, Account Owner Specify name or Legal Entity Identifier, Execution Firm also known as, Trading Firm, Status Active / Inactive / All

ccount List			Create	New Account 🛛 📥 Download	🕹 Upload
Account Type	Service	Account Number	Spot FX Ref Number	Clearing Member	2
Clearing Acct 🔹	All 🔻	Account Number	Spot FX Ref Number	Clearing Member	
Account Owner		Execution Firm	Status		$\overline{1}$
Search By Owner		Text Search EF	All v Search		<u> </u>

2. On the Accounts list that appears, select **Download** (**L** Download).

A list of accounts, authorized for this clearing firm, is downloaded to the default download directory, as a MS Excel file (*Accounts.xlsx*).

Save this file for step 9.

X	1					Accounts.xls	x - Excel						-		×
в	2	- E - 2	< 🗸 f _x 123												~
	Α	В	с	D	E	F	G	н	I	J		к		L	
		CLEARING_	CLEARING_MEMBER	CLEARING_MEMBER	ACCOUNT_	PB_ACCOUNT		EXECUTION_	ILINK_SESSION	ACCOUNT_OWN	ER AC	COUNT_OWNER_	ACCOUN	T_OWNE	R
1	ACTION	FIRM	_FIRM_ID	_CLEAR_ORG	NUMBER	_NUMBER	DESCRIPTION	FIRM_ID	_ID	_FIRM	FIR	RM_PBA	_FIRM_L	8	
2		123	456	CME	7890		Test2			817					-
	\leftarrow \rightarrow	Accoun	t (+)						•						Þ
Re	ady										=	■	1	+ 100	96

- 3. From the search results, select an Account Number, then select the Service ICC (CME Globex).
- 4. Select an **Execution Firm** to use as the basis for other firms, then deselect the checkbox, **Show products with indi**vidual limits only.

Services						En	abled for ST
CME Direct (CME Globex)	ICC (CME Globex)	ClearPort	Clearing				
						R	emove ICC
Execution Firms							Edit
*** Account has not been synced ***123 TRADING (123) Susp	end Order Entry						
Credit Control							Edit
Execution Firm AAA - BBB (123)	~				≛ Down	load 🔔	Upload
Product Group			Product				
AUL		\$	ALL		\$		
Show products with indivi	dual limits only						
* Limits appearing in Green are enfo	rced limits;			Searc	:h:		
				CMFI	Limits	EFL	imits
Product Group	Product Name (Sy	mbol.Type) 🔺	Restricted A	Max Qty Long	Max Qty Short	Max Qty Long	Max Qty Short

5. To restrict product(s), select Edit, modify the quantity, then select Save.

Example: To block	order submission, set M						
count (123)						Back To Search	
					De-activat	e Copy Delete	
learing Account Settings						^	
Clearing Member Account Number 123 (r (Alias) Description) Acct used to route trades						
Owner Firm	Asset Manager (Controller) Firm						
House/Customer Indicator CTI Code Port Customer 4 Not	rtfolio Margin Futures Delegated Intermediary (DI) t Enabled Not Enabled	Margin Account					
ervices							
ICC (CME Globex) CME Direct (CME Globex)	x) O ClearPort Clearing O						
Credit Control					6	Cancel Save	
Execution Firm						d tipland	
123 TRADERS (123)							
Product Group	Product	A					
* If Product limits are not set, all orders for the product w * I mits annearing in Green are enforced limits:	will be rejected	U	Show products with individ	lual limits only	Search: BIT		
			CMF Limits		E	F Limits	
Product Group 🔺	Product Name (Symbol.Type) 🔺	Restricted -	Max Qty Long	Max Qty Short	Max Qty Long	Max Qty Short	
FINANCIALS - EQUITY - US INDEX	Bitcoin Futures (BTC.FUT)		0	0	Not Set	Not Set	
FINANCIALS - EQUITY - US INDEX - SMALL CAP INDEX	BTIC on E-mini Nasdaq Biotechnology Index Futures (BIT.FUT))	Not Set	Not Set	Not Set	Not Set	
							7
nce confirmed th <u>e exe</u>	ecution firm cannot subm	nit trades f	or this proc	luct.			

6. **Download** the credit control spreadsheet (*account-num_*credit.xlsx) for the selected account and execution firm.

7. Open the spreadsheet, right-click the ACCOUNT_NUMBER column and format to Text (Number tab).

D													
ACCOUNT_NUMBE	R	Cu <u>t</u>											
		<u>С</u> ору											
	Ē	Paste	e Opt	ions:									
	-	ĈĂ											
		Paste	<u>Spec</u>	ial									
		Insert	t										
		<u>D</u> elet	e										
		Clear	Co <u>n</u> t	ents									
	:	<u>F</u> orm	at Ce	lls									
		Colu	mn <u>W</u>	idth									
		<u>H</u> ide											
		<u>U</u> nhi	de										
Format Cells								2	×	1			
Number Alignment Fo	ont Bo	order	Fill	Prote	ction								
Category: General	ample												
Number A Currency	CCOUNT_	NUMBER	l										
Accounting Tex Date Th	d format o	ells are ti splaved e	reated a xactiv a	is text e	ven wh	en a nu	mber is i	n the o	cell.				
Time Percentage													
Fraction Scientific													
Text Special													
Custom													
						OK		Can	ncel				
ਜ਼ \$ ₹ ∂॰ ₹				UNK	-credit	(1).xlsx - Exce	1				See, Br	. 8	- 0 :
File Home Insert Page Layout Form	ılas Data	Review View	Acrobat	🖓 Tell me	what you war	it to do							<u>ि</u> अ
A1 × Jx ACTION	D	E	F	G	Н	I	J	К	L	м	N	0	Р
1 ACTION FIRM_IDCLEAR_ORG	IBER ACCOUNT NUMBER	EXECUTION FIRM_ID	SYMBOL BTC	PRODUCT_ TYPE	PRODUCT_ EXCHANGE	CMF_LONG	CMF_SHORT	EF_LONG	EF_SHORT	PRODUCT_LONG _NAME Bitcoin Futurer	ASSET_CLAS	ASSET_SUB_ S CLASS	ASSET_SECTOR
3 4	125455705					-	-			2.1.50m r dtarE3		- 40111	
5 Limits (+)							: 4	1					
Ready											111 E	H =	+ 100

- 8. Copy the row then duplicate as many times as necessary for the accounts you want to restrict.
- 9. Open the Accounts.xlsx spreadsheet, copy the ACCOUNT_NUMBER and EXECUTION_FIRM_ID values to the account number fields of the *acct-num*_credit.xlsx spreadsheet.

In the **ACTION** column, enter X for all updated rows.

E	•	- @	÷				A	ccounts.xlsx - E	ixcel		Rivera, Ma	anuel 🖭	- [) ×
	le	Home	Inse	rt Pagel	ayout F	ormulas	Data Rev	iew View	Acrobat	Tell me wł	hat you want t	o do		년 Sha
A1		-	+ >	< 🗸 j	ACTIC	ON								
	А		в		с		D	E	F		G	н	1	
1	Асти	CLE/	RING_		MEMBER_		_MEMBER_			DESCRIPT		EXECUTION	L ILINK_SES	SION_
2	АСПО	123	1	123		CME	G	987654	NOWIDER	Tost2		23/		
3		123		123		CME		3210A		descriptio	on update	567		
4		123		123		CME		ZYXW		Test124		890		
5		072		350		CME				Test124-1	.0			
	())		Accoun	t (+)					E [4					Þ
		6 - d					100000	credit (1) vie	ry - Evcel			TRT -		× %
	са га.	Í		t D	- 1 4	Farmular	D-t- D			O T-II			_ 	ch
	riie	Hon	ie in	sert Pag	e Layout	rormulas		eview view	Acrobat	¥ Tell ne	what you wan	1 10 00	Ľ	Share
	2			~	£					/				
	~2			~ Y	Jx .				/	/				
	1	4		В		С	D	E	F	G	н	1 I I	J	
		CL	EARING	_MEMBER	CLEARING	MEMBER	ACCOUNT_	EXECUTION	_ PRODUCT_	PRODUCT_	PRODUCT_			
1	ACT	ION _F	IRM_ID		_CLEAR_O	RG	NUMBER	FIRM_ID	SYMBOL	ТҮРЕ	EXCHANGE	CMF_LONG	CMF_SHOP	кт (—
2		[12	3		CME		1234567891	2 123	BTC	FUT	CME	0	0	_
3	x	12	3		CME				BTC	FUT	CME	0	0	
4	X	12	პ		CME				BIC		CIVIE	0	0	
5	х	12	3		CIVIE				ыс	FUI	CIVIE	U	U	
			1.1											
		F	Limit	s (+)					: 4					Þ

- 10. Save the spreadsheet updates, select Upload (Lupload), then select an upload type.
- 11. Select ChooseFile, browse to the file, then select Upload & Verify.

Note: Uploads are limited to 20,000 rows. For more than 20,000, perform additional uploads.

The uploaded file is evaluated and validation dialog appears:

- Success: A confirmation message lists submitted updates, fields and values for each spreadsheet row.
- Failure: An error message appears, with recommended resolution.

When uploading after an error, select **New** then choose the updated spreadsheet.

12. After receiving a successful validation message, select Submit.

Upon completion of the upload, select **OK**, then close the Upload dialog.

Copying Accounts

Using existing account details as a basis, authorized users can create new accounts, changing necessary details as required.

To copy an account:

6

- 1. Click the Accounts tab.
- 2. Search for the account to use as a basis.
- 3. From the accounts list, select the **Account** to copy from.

Note: Accounts enabled for ICC cannot be copied.

4. Review the Account Settings and Services (to ensure it is correct), then select Copy.

🗙 Account Manager	ment Service 🖍					
Account Management				0	ل 🗹	0 ~
Account (1234567)				Back ⁻	To Search
		De-ac	tivate Copy	Bulk U	pload	Delete
Clearing Account S	ettings				Edit	~
Services					Enabled	for STP
ClearPort Clearing	CME Direct (CME Glo	obex)	ICC (CME Glo	obex)		

- Note: Any assigned sub-accounts are not copied.
- 5. In the message that appears, enter a unique account number.
- 6. Select whether to create the account as Active or Inactive, then select OK.

Copy Account	\otimes
Please provide a unique r	number for the new copied account: and create as Cancel OK

- 7. On the newly created account settings page, review and update configuration details, including <u>Account Settings</u>, <u>Services</u>, <u>Broker Permissions</u>, <u>Market Type</u>, <u>Products</u>.
- 8. To finalize account setup and enable the account, Saveindividual sections, then select Activate (

Activate

Credit Controls

Clearing Member and Execution firm administrators can use the Credit Controls function to manage CME Globex, CME ClearPort and CME Direct account level credit (preferred currency and maximum credit limit) and order submission (maximum permissible long / short) limits, for a product group and individual products.

Trader / Trader Risk Administrators can use Credit Controls to view and manage risk settings, including credit and long / short quantity limits.

Order handling:

- Credit limit checks utilize top of day trading activity; starts flat each trading day.
- Orders that are within limits are approved for execution.
- CME Globex trades, submitted using CME Direct, can be viewed in Firmsoft.
- Orders are rejected if they contain restricted products or requested quantities exceed limits.
- Margin rates and intra-commodity spread credits are used to determine credit usage, by product and type of trade.
- Completed orders are viewable in Front-End Clearing (FEC+).
- Options product limits are set independently of futures and are subject to overall credit limit.

Rejected order handling: An authorized clearing / execution firm administrator must increase the limit and / or configure additional products.

Available functions:

- Managing Account Credit Controls
- Calculating / Setting Option Limits
- Account Credit Control Models
- CME ClearPort Product Position Limit Checking

Managing Account Credit Controls

To manage account credit controls:

Users can specify the Currency, Credit Limit, Maximum Quantity Long / Short Limits (product quantity limits are not required for CME ClearPort).

- 1. After selecting a Service and specifying <u>Markets</u>, <u>Products</u> and <u>Brokers</u>, go to the **Credit Controls** page; available for *CME Direct (CME Globex)* and *ClearPort Clearing*.
- 2. Specify the **Currency** and **Credit Limit (CME Direct) / RAV Limit (CME ClearPort)** and product limits (Maximum quantity long / short).

Margin rates and <u>intra-commodity spread</u> credits are used to determine credit usage, remaining credit and percent used; by product and type of trade.

For option limits the system uses the (futures equivalent) most restrictive of *credit*), *product permissions*, *long/short product* limits.

/ices											Enabl	ed for S
			_		_							
E Direct (CME Gl	obex) Pen	ding	ClearPort Clearing Pen	ding	Cross Venue Risk En	able		(CME Glo	obex) Ena	able		
count Details									Cancel	Save	Remove	CMED
1: Setup	2: M	larket Ty	pe Permissions	3: Produ	ct Permissions	4: E	Broker F	Permiss	sions	5: 0	Credit Co	ntrols
Credit Control												
Note: Setting op applying delta. Intra-commodit	otions quantit y spread quar	y limits is op ntities for fu	otional. If no limit is set for option tures and options are reflected a	ns, trading in o is 15% of the o	ptions may occur up to the der quantity.	futures limi	t. Options	are conve	erted into fut	tures equival	ent quantitie	es by
Currency		Cre	dit Limit	Oredit Us								
				Credit Us	age Remaining Cre	edit %	Credit L	imit Useo	d Start	t of Day Po	sitions	
US Dollar	,	✓ 5		0	age Remaining Cre 0	edit %	Credit L	imit Useo	d Start Not	t of Day Po Enabled	sitions	
US Dollar	ducts Sho	v all pro	ducts tradable in this acco	0 ount v s	age Remaining Cre 0 et All Unset Limits to Z	edit %	Credit L	imit Useo	d Start Not Search:	of Day Po Enabled	sitions	
US Dollar Permissible Pro	ducts Sho	w all pro	ducts tradable in this acco	0 ount v s	age Remaining Cre O	edit % ero	Credit L	imit Used	d Start Not Search:	enabled	sitions	
US Dollar Permissible Proc Product Symbol 🔺	ducts Sho Globex / Clearing Code A	Product Type	ducts tradable in this acco Max Qty Long	ount v S	age Remaining Cre O et All Unset Limits to Z Max Qty Short	ero Net Fills	% of Max Qty Long	% of Max Qty Short	d Start Not Search: Working Long	of Day Po Enabled Working Short	Net Fills + Working Long	Net F + Work
US Dollar Permissible Product Symbol ▲ E-mini S&P 500 Futures Synthetic	Globex / Clearing Code A ECES / ECES	Product Type A	ducts tradable in this acco Max Qty Long		age Remaining Cre O at All Unset Limits to Z Max Qty Short	ero Net Fills	Section 2 Sectio	% of Max Qty Short Used	d Start Not Search: [Working Long	of Day Po Enabled Working Short	Net Fills + Working Long	Net F + Work Sho

• CME ClearPort - Credit Controls: RAV Limit is required.

Services						E	nabled for STP		
ClearPort Clearing Pending	CME Direct (CMI	E Globex)	nable ICC (CME Globex)	Enable					
Account Details					Cance	al Save	Remove CPC		
1: Setup 2: Mark	et Type Permis	sions	3: Product Permissions	4: Broker Permiss	ions	5: Cre	dit Controls		
Credit Control									
Currency US Dollar 🗸	RAV Limit		Margin Usage Remaining Ma \$0 unlimited	rgin % Margin Used Ma: \$0	(Margin (Jsage 🛃	<u>.</u>		
Permissible Products Show a	Permissible Products Show all products tradable in this account Set All Unset Limits to Zero Search:								
Product Symbol 🔺	Symbol	Product Type ▲	Max Qty Long	Max Qty Short	Net Fills	% of Max Qty Long Used	% of Max Qty Short Used		
\$10 DOW JONES FUTURES	11	FUT	1	1			-		
\$10 DOW JONES OPTIONS	11	OOF	unlimited	unlimited					

- **RAV Limit** Account-level RAV limit is set by the clearing member firm and required for trading on CME ClearPort.
- Margin Usage Amount of margin used (of the available RAV limit)
- Remaining Margin of the total available RAV limit
- % Margin Used Margin Usage as a percentage of the RAV limit
- Max Margin Usage Highest utilization value of the day.

- Example: If current day usage was 15 / 10 / 20 / 17, the value would be 20. If a trade exceeds max margin usage, and is voided, max margin usage before the trade was voided will appear.
- **Historical Max Usage Report** (<a>) Download a spreadsheet that includes three-months of historical limits on a daily basis, including *Max Margin usage* and *end of day RAV Limit*.
- Limit Colors: Limits will appear with a color to acknowledge the status (including recent updates):

- Green: Currently applied limit

- Orange: An open transaction exists for a recently updated (pending) limit. To view details, move the mouse pointer over the limit to view an informational message.

-Red: A requested limit update is not applied due to an error. To view details, move the mouse pointer over the limit to view an informational message, which can provide details on resolving the error.

Limits with pending or error status cannot be copied or updated via the bulk / upload update process.

• Inline Credit Controls (ICC): (optional) Specify product level Clearing and / or Execution Firm position limits.

See also: ClearPort Product Position Limit Checking

- 3. For the Permissible Products field, select from available options:
 - Show all products with unique limits: Filter the Product list to products that have user specified limits.
 - Show all products tradable in this account: View all authorized products, via Market Types Available Products.
- 4. For each product that will be authorized, specify the Max Qty Long / Max Qty Short.

Note: For Globex ICC only: Default value is Not Set, which uses the <u>Globex Admin Policy</u> settings to determine order entry and trading permission.

Admin Settings - Unset Limit Rule: When limits are *not set* (by either Clearing Member or Execution Firm) for the specified account, the account is limited to trading products within the overall firm <u>Credit Limit</u>. Additional considerations: See also: Calculating option limits.

- 5. To finalize Credit Control settings, select Save.
- 6. (For new / pending accounts) On the account creation dialog that appears, select an account creation option:

Create Account as:

- Active: Finalize credit controls and activate the account. Additional configuration, for other applications / services, may be necessary.
- Inactive: Finalize credit controls, but do not activate the account. Additional configuration can be performed or the account configuration can be used as the basis for additional related accounts (via the <u>Account Copy</u> function).

Create Account		\otimes
Create Account as Active Inactive 		
	Cancel	ОК

Note: To activate the account later, search and select the inactive account. From the Account Settings page, select Activate.

Additional Options:

- Manage Spot FX Credit Controls
- <u>Calculating / Setting Option Limits</u>
- <u>Account Credit Control Models</u>
- Product Position Limit Checking
 - Futures Products
 - <u>General</u>
 - Option Products

Additional Resources:

- Globex Credit Controls Calculations Overview
- Managing ICC credit controls
- Calculating ICC (credit) limits
- CME Globex Credit Controls

Managing ICC Credit Controls / Product Limits

Clearing Member, Execution firm, Clearing Firm Account administrators can use the Credit Controls function to manage ICC (CME Globex) / Spot FX product level credit controls and maximum long / short order submission limits.

Trader / Trader Risk Administrators / can use Credit Controls to search and view risk settings, which includes credit and maximum permissible long / short quantity limits.

Order handling:

- Credit limit checks utilize top of day trading activity; starts flat each trading day.
- Orders that are within limits are approved for execution.
- Orders are rejected if they contain restricted products, requested quantities exceed limits, originate from unregistered accounts or for products with unset limits.
- Options product limits are set independently of futures and are subject to overall credit limit.
- Active Delegated Intermediary (parent) accounts cannot be updated via upload.

Based on ICC Policy settings and product limits, rejected orders may require an authorized clearing / execution firm administrator to modify product limits or ICC policy settings.

To manage ICC account credit controls:

1. To set ICC product limits, search and select the account.

Account Management		Dashboard Account	Trade Type Restriction			0 ⊾⊠0
Account List			Create New Account	🛓 Download	🛓 Upload	📩 Max Usage Download
Account Type	Service	Account Number	Account Alias	Spo	t FX Ref Num!	per
Clearing Acct 🗸	All 🗸	Account Number	Account Alias	Sp	ot FX Ref Nu	mber
Clearing Member		Account Owner / LEI	Execution Fire	n	Status	
Clearing Member		Search By Owner or LEI	Text Search	n EF	All	✓ Search

2. Select the ICC (CME Globex) tab then select Edit.

Services			Enabled for STP
ICC (CME Globex)	ME Direct (CME Globex) Enable	ClearPort Clearing ()	

3. On the Credit Control pane that appears, select **Edit**, then select the **Execution Firm** to manage.

Credit Control						Edi	
Execution Firm AAAA - BBB (123) Product Group ALL Show products with individual limits or * If Product limits are not set, all orders for the * Limits appearing in Green are enforced limits	Product ALL product will be accepted	¢] Search: [± Down!	oad 1	Uploa	t
			CMF	Limits	EFL	imits	
Product Group 👻	Product Name (Symbol.Type) 🔺	Restricted ▲	Max Qty Long	Max Qty Short	Max Qty Long	Max Qty Short	
FINANCIALS - INTEREST RATE - SHORT TERM NON-GOV	1 MONTH EURODOLLAR FUTURES (GLB.FUT)		Not Set	Not Set	Not Set	Not Set	

If individual product limits are set, results appear in the table below.

- 4. To view and manage additional products, deselect Show products with individual limits only.
- 5. For each product that will be authorized, specify the Max Qty Long / Max Qty Short.

CME Direct (CME Globex) Pending ClearPort Clearing ICC (CME Globex) Cross Venue Risk	
	Enable
	Cancel
Credit Control	1
Execution Firm	Download 🕹 Upload
Product Group Product	
	÷
Chaw and usta with individual linite only	
Show products with individual limits only If Product limits are not set, all orders for the product will be accepted	
* Limits appearing in Green are enforced limits Search:	
CMF Limits	EF Limits
	Max Max
Devident Name	
Product Group Product Name Restricted Max Qty Long Max Qty Shore A A A A A A A A A A A A A	rt Qty Qty
Product Group Product Name Restricted Max Qty Long Max Qty Shore Max Qty Long	rt Qty Qty Long Short
Product Group Product Name (Symbol.Type) Restricted Max Qty Long Max Qty Shot ALT INVESTMENT - Bloomberg Roll Select Image: Comparison of the select Image: Comparison of the select Image: Comparison of the select	rt Qty Qty Long Short
Product Group Product Name (Symbol.Type) Restricted Max Qty Long Max Qty Shot ALT INVESTMENT - COMMODITY INDEX - DJ UBS CI Bloomberg Roll Select (DRS.FUT) 1 1	rt Qty Qty Long Short
Product Group Product Name (Symbol.Type) Restricted Max Qty Long Max Qty Shot ALT INVESTMENT - COMMODITY INDEX - DJ UBS CI Bloomberg Roll Select Commodity Index Futures (DRS.FUT) 1 1	rt Qty Qty Long Short
Product Group Product Name (Symbol.Type) Restricted Max Qty Long Max Qty Shot ALT INVESTMENT - COMMODITY INDEX - DJ UBS CI Bloomberg Roll Select Commodity Index Futures (DRS.FUT) 1 1	rt Qty Qty Long Short

6. To finalize ICC Credit Control settings, select Save.

Additional functions:

Managing Credit Controls

Managing execution firm product limits via upload

Calculating ICC Limit with examples

Calculating ICC Limits

Inline Credit Controls (ICC) support account-based, in-line, position limit controls for Globex orders, which are set by Clearing Member Firm (CMF), Legal Clearing Entity (LCE) and/or Execution Firm (EF) account administrators.

- LCE Account admins associate a clearing account established in Account Manager to an Execution Firm ID and identify a trading firm owner for the account.
- Accounts are created by Clearing Member Firm, LCE or EF. Separate limits may be managed by both LCE and EF admins, with the most restrictive limits prevailing.
- Only product-level position limits may be set on accounts.
- Separate limits may be set for futures and options. Option limits are delta-based values.
- E-mail notifications will be sent out for breaches of percentage threshold levels set by account administrators.
- An upload of ICC accounts from an Excel spreadsheet will be supported for limits management within CME Account Manager.
- Calculations are done at the product level (see below calculations and examples)
 - All incoming orders treated on a delta basis per product (1.0 or -1.0 delta = 1 contract)

- Delta values for option instruments are fixed at the start of each trading day (no intraday changes)
- The minimum delta value imposed on calls is 0.1 and on puts is -0.1

Note: For futures and options, spread orders with "balanced" intra-commodity spread quantity result in working long and short quantity equal to 15% of balanced quantity.

Example: An intra-commodity spread order to buy 100 CLZ18 – CLZ19 results in working long of 15 in CLZ18 and working short of 15 in CLZ19

Position Limit Calculations

Position limit calculations are described below:

- Every ICC Account starts the new trading day with a flat position.
- Positions are reset at 4:07 PM CST daily, including holidays (when trading is suspended).
- Accounts position limits are reset to zero, at 4:07 PM CST daily, including holidays and regular market closure.

Futures Max Long and Short Position Usage Calculations

Long Usage = Working Long + Traded Long – Traded Short

AND

Short Usage = Working Short + Traded Short - Traded Long

WHERE

- Working Long = Long quantity of open orders (in cleared contracts) + (Calendar Spread Order Quantities * 15%)
- Working Short = Short quantity of open orders (in cleared contracts) + (Calendar Spread Order Quantities * 15%)

• Calendar Spread Order Quantities = for each working spread order:

 $\sum_{so=1}^{\infty} Min \text{ Long Quantity in a spread order, Short Quantity in the same spread order)} for the same Product$

I Note:

• Long and Short Quantities in spread are after application of the leg ratios and applicable contract multipliers.

• In the spread order, any residual leg quantity above the min quantity on the long or short side of a spread order is considered an outright long / short quantity and is added separately to the working long / short side.

• Only orders for futures contracts (i.e., futures or spreads) are considered for Working and Traded Quantities when testing against Futures Max Long or Max Short Position Limits.

• If Long Usage < 0, then Long Usage is displayed in CME Account Manager as 0. (Negative quantities are not displayed for Net Long Positions).

• If Short Usage <0, then Short Usage is displayed as 0. (Negative quantities are not displayed for Net Short Positions).

Options Max Long and Short Position Usage Calculations

Long Usage = Working Long + Traded Long – Traded Short

AND

Short Usage = Working Short + Traded Short – Traded Long

WHERE

 Working Long = Futures Equivalence of (buy call/sell put) open orders (in cleared contracts) + (Futures Equivalence of Option Calendar Spread Order Quantities * 15%)

- Working Short = Futures Equivalence of (sell call/buy put) open orders (in cleared contracts) + (Futures Equivalence of Option Calendar Spread Order Quantities * 15%)
- Option Cal Spread Order Quantities = for each working option spread order:

 $\sum_{SO=1} Min (Fut Eqv of Long Qty in Spd Ord, Fut Eqv Short Qty in the same Spd Ord) for the same Product$

I Note:

• Long and Short Quantity in spread are after application of the leg ratios and applicable contact multipliers.

• In the option cal spread order, any residual quantity (measured in Futures Equivalence) above the min quantity on the long or short side of a spread order is considered outright long / short quantity and is added separately to the working long / short side.

• Only orders for option contracts are considered for Working and Traded Quantities.

• If Long Usage < 0, then Long Usage is displayed as 0 in CME Account Manager. (Negative quantities are not displayed for Net Long Positions).

• If Short Usage <0, then Short Usage is displayed as 0. (Negative quantities are not displayed for Net Short Positions).

Calculation Examples

Available examples: <u>Risk Control Algorithm</u> <u>Crude Oil Futures</u> <u>Crude Oil Options</u> <u>Futures Outright with Default Contact Multiplier</u> <u>Futures Outright with Contract Multiplier not Equal to 1</u> <u>Futures Spread</u> <u>Option Outright</u> Options Spread

Risk Control Algorithm

The risk control algorithm tracks the order size for each account at the product code level based on:

- Long Usage = Working Long + Traded Long Traded Short
- Short Usage = Working Short + Traded Short Traded Long

The available order size will be determined as follows:

- Long Order Size = Max Long Limit Long Usage
- Short Order Size = Max Short Limit Short Usage

The traded long and traded short positions are reset back to zero at the end of each day upon market close.

If the running long or short usage values for a product are such that it becomes less than zero, then the negative position will be used in the calculation and stored by Account Manager, but Account Manager will display a zero for Long or Short negative usage value.

The risk control algorithm always breaks spreads down into legs and acts upon the legs of a spread, not the spread instrument itself.

The security type and spread type figure prominently in how the risk control algorithm tabulates usage values:

*Delta is an option related statistic which is based on the price movements of the underlying future contract and plays an important part in determining the working position for options. Delta is used as a "hedge ratio" to determine the futures

equivalence of the option order. It is the futures equivalence of the option order that the Option Position Limits will apply to.

The value of the option delta is considered to one decimal place, such that the minimum delta applicable will be 0.1 and the maximum will be 1. For example, a delta value such as 0.4985 is rounded up to 0.5.

Note: Delta values are determined at the start of each trading session and are not updated subsequent to the initial determination.

Crude Oil (CL) Futures Example

Action	Long Usage	Short Usage	Working Long	Working Short	Trade Long	Trade Short
Buy Order 15 CLF18	15 (15+0–0)	0 (0+0-0)	15	0	0	0
Buy Order Trades 5 CLF18	15 (10+5–0)	-5 (0+0–5)	10	0	5	0
Sell Order 100 CLZ19	15 (10+5–0)	95 (100+0-5)	10	100	5	0
Buy Order 50 CLH18 – CLM18 (calendar spread)	22.5 (17.5+5+0)	102.5 (107.5+0-5)	17.5 (10+ (50*.15))	107.5 (100+ (50*.15))	5	0
Buy spread order trades 20 CLH18- CLM18	19.5 (14.5+25-20)	102.5 (104.5+20-25)	14.5 (10+(30*.15))	104.5 (100+ (30*.15))	25	20

Crude Oil (LO) Options Example

Action	Long Usage	Short Usage	Working Long	Working Short	Trade Long	Trade Short
Buy Order 30 LOF18 49C (0.50 delta)	15 = ((30*.50)*0- 0)	0 = (0+0- 0)	15 = (30*.50)	0	0	0
Buy Order Trades 10 LOF18 49C	15 = ((20*.5)+ (10*5)-0)	-5 = (0+0- (10*5))	10 = (20*.5)	0	5 = (10*.5)	0
Buy Order 500 LOZ19 45P (-0.20 delta)	15 = (10+5– 0)	95 = (100+0-5)	10	100 = (500*.20)	5	0
UDS Order B 200 LOG18 55C (0.25 delta) S 50 LOG18 30C (1.0 delta)	22.5 = (17.5+5+0)	102.5 = (107.5+0- 5)	17.5 = (10+ (200*0.25)*.15)	107.5 (100+ (50*.15))	5	0
Buy spread order trades 80 LOG18 55C (0.25 delta) S 20 LOG18 30C (1.0 delta)	19.5 = (14.5+25- 20)	99.5 = (104.5+20- 25)	14.5 = (10+ (120*.25)*.15)	104.5 (100+ (30*.15))	25 = (5+ (80*.25))	20 = (20*1.0)

Futures Outright with Default Contact Multiplier

A

The futures outright calculation is based on order quantity and contract multiplier (Tag 231 in the 35=d security definition). Where available the contract multiplier will be used otherwise it will just default to 1.

Note: The contract multiplier is used to converted traded quantity to cleared quantity.

Instrument	GEZ1
Contract Multiplier	1
Max Long Limit (GE-FUT)	100
Max Short Limit (GE-FUT)	100

Example

Message Flow	Working Long	Working Short	Traded Long	Traded Short	Net Long Usage	Net Short Usage	Avail Max Long Limit	Avail Max Short Limit	Comments
Buy New Order With Quantity of 10	10	-	-	-	10	-	90	100	WL = 10 X 1 = 10 NL = 10 + 0 - 0 = 10 Avail Max Long Limit = Limit - (Working Long + Traded Long - Traded Short) 100 - (10 + 0 - 0) = 90 Avail Max Short Limit = Limit - (Working Short + Traded Short - Traded Long) 100 - (0 + 0 - 0) = 100
Cancel Replace to Quantity of 20	20	-	-	-	20	-	80	100	WL = 20 X 1 = 20 NL = 20 + 0 - 0 = 20 Avail Max Long Limit = Limit - (Working Long + Traded Long - Traded Short) 100 - (20 + 0 - 0) = 80 Avail Max Short Limit = Limit - (Working Short + Traded Short - Traded Long) 100 - (0 + 0 - 0) = 100
Complete Fill for Quantity of 20	0	-	20	-	20	(-20)	80	120	NL = 0 + 20 - 0 = 20 $NS = 0 + 0 - 20 = -20$ $Avail Max Long Limit = Limit -$ $(Working Long + Traded Long -$ $Traded Short) 100 - (0 + 20 - 0) =$ 80 $Avail Max Short Limit = Limit -$ $(Working Short + Traded Short -$ $Traded Long) 100 - (0 + 0 - 20) =$ 120
Sell New Order With Quantity of 10	0	10	20	-	20	(-10)	80	110	$WS = 10 \times 1 = 10$ NS = 10 + 0 - 20 = -10 Avail Max Long Limit = Limit - (Working Long + Traded Long - Traded Short) 100 - (0 + 20 - 0) = 80 Avail Max Short Limit = Limit - (Working Short + Traded Short - Traded Long) 100 - (10 + 0 - 20) =

									110
Cancel Replace to Quantity of 20	0	20	20	-	20	0	80	100	$WS = 20 \times 1 = 20$ NS = 20 + 0 - 20 = 0 Avail Max Long Limit = Limit - (Working Long + Traded Long - Traded Short) 100 - (0 + 20 - 0) = 80 Avail Max Short Limit = Limit - (Working Short + Traded Short - Traded Long) 100 - (20 + 0 - 20) = 100
Complete Fill for Quantity of 20	0	0	20	20	0	0	100	100	NL = 0 + 20 - 20 = 0 NS = 0 + 20 - 20 = 0 Avail Max Long Limit = Limit - (Working Long + Traded Long - Traded Short) 100 - (0 + 20 - 20) = 100 Avail Max Short Limit = Limit - (Working Short + Traded Short - Traded Long) 100 - (0 + 20 - 20) = 100 Traded short increases acceptable long order size

Futures Outright with Contract Multiplier not Equal to 1(CMED 50MW Power)

Futures outright calculations are based on order quantity and contract multiplier (Number of deliverable units per instrument, for example, number of peak days or calendar days in maturity month). Where available the contract multiplier will be used; otherwise will default to 1.

Instrument	J4LZ8
Contract Multiplier	200
Max Long Limit (J4L-FUT)	20,000
Max Short Limit (J4L-FUT)	20,000

Example

Message Flow	Working Long	Working Short	Traded Long	Traded Short	Net Long Usage	Net Short Usage	Avail Max Long Limit	Avail Max Short Limit	Comments
Buy New Order With Quantity of 10	2000	-	-	-	2000	-	18000	20000	WL = 10 X 200 = 2,000 NL = Working Long + Traded Long - Traded Short = 2,000 + 0 - 0 = 2,000 Avail Max Long Limit = 20,000 - 2,000 = 18,000
Cancel Replace to Quantity of 20	4000	-	-	-	4000	-	16000	20000	WL = 20 X 200 = 4000 NL = 4,000 + 0 - 0 = 4,000 Avail Max Long Limit = 20,000 - 4,000 = 16,000

Complete Fill for Quantity of 20	0	-	4000	-	4000	(- 4000)	16000	24000	NL = 0 + 4,000 - 0 = 4,000 $NS = 0 + 0 - 4,000 = -4,000$ $Avail Max Long Limit = 20,000 - 4,000 = 16,000$ $Avail Max Short Limit = 20,000-(-4,000) = 24,000$
Sell New Order With Quantity of 10	0	2000	4000	-	4000	(- 2000)	16000	22000	WS = 10 x 200 = 2,000 NS = 2,000 + 0 - 4,000 = - 2,000 Avail Max Short Limit = 20,000 - (-2,000) = 22,000
Cancel Replace to Quantity of 20	0	4000	4000	-	4000	0	16000	20000	WS = 20 x 200 = 4,000 NS = 4,000 + 0 - 4,000 = 0 Avail Max Short Limit = 20,000 - 0 = 20,000
Complete Fill for Quantity of 20	0	0	4000	4000	0	0	20000	20000	NL = 0 + 4,000 - 4,000 = 0 NS = 0 + 4,000 - 4,000 = 0 Avail Max Long Limit = 20,000 - 0 = 20,000 Avail Max Short Limit = 20,000 - 0 = 20,000 Traded short increases available long order size

Futures Spread

Futures spread calculations are based on the trade legs only such that:

- The effective side of each leg is derived based on spread side x leg side.
- Buy and sell legs belonging to the same product code could offset each other to the extent possible after taking into account their respective leg ratios.
- The working quantity only (not traded) are further offset by a spread contribution factor such that a configurable value such as 15% will be multiplied with the leg ratio which could be offset between both sides.
- If spread legs belong to a single side or if spread legs belong to different product codes, then no spread contribution factor will be applicable.
- The buy side working quantity for all spread legs belonging to the same product code = total buy leg ratio total sell leg ratio (if negative then zero) + spread contribution factor (15% of leg ratio common to both buy & sell sides) x spread quantity.
- The sell side working position for all spread legs belonging to the same product code = total sell leg ratio total buy leg ratio (if negative then zero) + spread contribution factor (15% of leg ratio common to both buy & sell sides) x spread quantity.
- The buy side traded position for all spread legs belonging to the same product group = total buy leg ratio x traded quantity.
- The sell side traded position for all spread legs belonging to the same product group = total sell leg ratio x traded quantity.
- Product code is uniquely qualified with a combination of product code + security type + exchange.

Instrument	GE:BF M8-U8-Z8
Max Long Limit (GE - FUT	100

Max Short Limit (GE-FUT)	100
Spread Contribution Factor	15%

Leg Instrument	Leg Side	Leg Ratio	Product Code
GEM8	Buy	1	GE
GEU8	Sell	2	GE
GEZ8	Buy	1	GE

Example: Spread contribution factor: 15% of 2 = 0.3 since buy leg ratio (2) and sell leg ratio (2) are the same and offset each other.

Message Flow	Working Long	Working Short	Traded Long	Traded Short	Net Long Usage	Net Short Usage	Avail Max Long Limit	Avail Max Short Limit	Comments
Buy New Order With Quantity of 10	3	3	-	-	3	3	97	97	Working Long = 2 - 2 + 0.3 x 10 = 3 Working Short = 2 - 2 + 0.3 x 10 = 3
Cancel Replace to Quantity of 20	6	6	-	-	6	6	94	94	Working Long = 2 - 2 + 0.3 x 20 = 6 Working Short = 2 - 2 + 0.3 x 20 = 6
Complete Fill for Quantity of 20	0	0	40	40	0	0	100	100	NL = WL (0) + TL (40) - TS (40) = 0 NS = WS (0) + TS (40) - TL (40) = 0
Sell New Order With Quantity of 10	3	3	40	40	3	3	97	97	Working Long = 2 - 2 + 0.3 x 10 = 3 Working Short = 2 - 2 + 0.3 x 10 = 3 NL = WL (3) + TL (40) - TS (40) = 3 NS = WS (3) + TS (40) - TL (40) = 3
Cancel Replace to Quantity of 20	6	6	40	40	6	6	94	94	Working Long = 2 $-2 + 0.3 \times 20 = 6$ Working Short = 2 $-2 + 0.3 \times 20 = 6$ NL = WL (6) + TL (40) - TS (40) = 6 NS = WS (6) + TS (40) - TL (40) = 6
Complete Fill for Quantity of 20	0	0	80	80	0	0	100	100	NL = WL (0) + TL (80) - TS (80) = 0 NS = WS (0) + TS (80) - TL (80) = 0

Option Outright

Option outright calculation is based on order quantity and delta:

- The delta value for an option is determined at the beginning of the trading session and it will remain constant for the entire trading session. Orders entered during that session will utilize this "daily" delta value and will not change during the session.
- At the beginning of the next trading session, delta values will be refreshed and any new order and old "Good Till" orders still active, will utilize the new delta value.
- Position limits on options on combination (OOC) underliers are treated independently from option on futures involving the same product. For example:
 - LO position limits control the delta equivalence of the WTI outright underlier
 - WAY position limits control the delta equivalence of the WTI one-month calendar spread
- If there is no delta available for an option, a default value of 1 will be used.

Effective side is based on the order size as well as if the option instrument is a call or put since a put option results in the side being flipped.

Instrument	GEU0 C9950
Delta	0.5
Max Long Limit (GE – OPT)	100
Max Short Limit (GE – OPT)	100

🗟 Example									
Message Flow	Working Long	Working Short	Traded Long	Traded Short	Net Long Usage	Net Short Usage	Avail Max Long Limit	Avail Max Short Limit	Comments
Buy New Order With Quantity of 10	5	-	-	-	5	-	95	100	Working Long = 10 x 0.5 = 5
Cancel Replace to Quantity of 20	10	-	-	-	10	-	90	100	Working Long = 20 x 0.5 = 10
Complete Fill for Quantity of 20	0	-	10	-	10	(-10)	90	110	Traded Long = 20 x 0.5 = 10
Sell New Order With Quantity of 10	0	5	10	-	10	(-5)	90	105	Working Short = 10 x 0.5 = 5 Avail Max Short Limit = 100 - (5 + 0 - 10) = 105
Cancel Replace to Quantity of 20	0	10	10	-	10	0	90	100	Working Short = 20 x 0.5 = 10 Avail Max Short Limit = 100 - (10 + 0 - 10) = 100
Complete Fill for Quantity of 20	0	0	10	10	0	0	100	100	Traded short increases available long order size

Options Spread

Options spread calculation is based on its legs only such that:

- The effective side of each leg is derived based on spread side x leg side, depending on whether the option leg is a put or call.
- The effective leg ratio of each leg needs to be determined by multiplying its leg ratio with its corresponding delta. If the delta is not available then the effective leg ratio will default to 1.
- Buy and sell legs belonging to the same product code may offset each other after taking into account their respective leg ratios.
- The working quantity only (not traded) are further offset by a spread contribution factor such that a configurable value such as 15% will be multiplied with the leg ratio which could be offset between both sides.
- If spread legs belong to a single side or if spread legs belong to different product codes then no spread contribution factor will be applicable between them.
- The buy side working quantity for all spread legs belonging to the same product code = total buy effective leg ratio total sell effective leg ratio (if negative then zero) + spread contribution factor (15% of effective leg ratio common to both buy & sell sides) x spread quantity
- The sell side working quantity for all spread legs belonging to the same product code = total sell effective leg ratio total buy effective leg ratio (if negative then zero) + spread contribution factor (15% of effective leg ratio common to both buy & sell sides) x spread quantity
- The buy side traded position for all spread legs belonging to the same product group = total buy effective leg ratio x traded quantity
- The sell side traded position for all spread legs belonging to the same product group = total sell effective leg ratio x traded quantity

• Product code is uniquely qualified with a combination of product code + security type + exchange

Instrument	UD:U\$:ST 0104931538
Max Long Size (GE-OPT)	100
Max Short Size (GE-OPT)	100
Spread Contribution Factor	15%

Leg Instrument	Leg Side	Leg Ratio	Product Code	Delta
GEU0 C9950	Buy	2	GE	0.5
GEU0 P9962	Buy	3	GE	0.25

Example: Spread contribution factor -- 15% of 0.75 = 0.1125 since buy effective leg ratio (2 x 0.5 = 1) and sell (buy put leg) effective leg ratio (3 x 0.25 = 0.75) can offset each other by up to 0.75 since this is the effective leg ratio common to both sides.

Message Flow	Working Long	Working Short	Traded Long	Traded Short	Net Long Usage	Net Short Usage	Avail Max Long Limit	Avail Max Short Limit	Comments
Buy New Order With Quantity of 10	3.625	1.125	-	-	3.625	1.125	96.375	98.875	Working Long = (1 – 0.75 + 0.1125) x 10 = 3.625 Working Short = (0.75 – 1 (0)

									+ 0.1125) x 10 = 1.125
Cancel Replace to Quantity of 20	7.25	2.25	-	-	7.25	2.25	92.75	97.75	Working Long = (1 - 0.75 + 0.1125) x 20 = 7.25 Working Short = (0.75 - 1 (0) + 0.1125) x 20 = 2.25
Complete Fill for Quantity of 20	0	0	20	15	5	(-5)	95	105	Traded Long = 20 x 1 Traded Short = 20 x 0.75 Avail Max Short Limit = 100 - (0 + 15 - 20) = 105
Sell New Order With Quantity of 10	1.125	3.625	20	15	6.125	(- 1.375)	93.875	101.375	Working Long = $(0.75 - 1 (0)$ + 0.1125) x 10 = 1.125 (sell put leg becomes buy) Working Short = $(1 - 0.75 + 0.1125) \times 10 = 3.625$ Avail Max Long Limit = $100 - (1.125 + 20 - 15) = 93.875$ Avail Max Short Limit = $100 - (3.625 + 15 - 20) = 101.375$
Cancel Replace to Quantity of 20	2.25	7.25	20	15	7.25	2.25	92.75	97.75	Working Long = (0.75 – 1 (0) + 0.1125) x 20 = 2.25 (sell put leg becomes buy) Working Short = (1 – 0.75 + 0.1125) x 20 = 7.25
Complete Fill for Quantity of 20	0	0	35	35	0	0	100	100	Traded Long = 20 x 0.75 Traded Short = 20 x 1 Traded short increases available long order size. Traded long increases available short order size.

Suspending / Allowing Order Entry

Using the Account Credit Controls - Suspend Order entry function, authorized Clearing Member and Execution firm administrators can restrict the ability of execution firms to enter or modify orders. Suspended accounts can still cancel orders and preset credit and product trading limits are not affected.

When the reason for order suspension is resolved, authorized users can Allow order entry and execution firm order entry can resume.

To suspend execution firm order entry:

1. Select the Account menu, then perform a search for the account associated with the execution firm to suspend.

Account Management		Da	ashboard Account	Trade 1	ype Restriction	
Account List					Create New Account	🕹 Download
Account Type	Service		Account Number		Account Alias	Sp
Clearing Acct 🗸 🗸	All	~	Account Number		Account Alias	s
Clearing Member		A	Account Owner / LEI		Execution Firm	n
Clearing Member			Search By Owner or LE	:	Text Search	EF

2. From the results that appear, select a blue hyperlinked account number.

ccount List				Create New Account	≥ Download ±	Uplo
Account Type	Service	Account Number	Spot FX Ref Number	Clearing Member]	
Clearing Acct		Evecution Firm	Status	Clearing Member]	
Search By Owner		Text Search FF		ch		
t all records are returned	due to the size of	f search results. Please narrow	down search using search criteria:	s. ⁻ denotes CME SEF registered firm Sea	* denotes holding ac	cour
t all records are returned ow 10 v entries Account Number	due to the size of pot FX Ref umber	isearch results. Please narrow	down search using search criteriae	s. ⁻ denotes CME SEF registered firm Sea Execution Firm	* denotes holding ac arch: Ac S	ccou

3. Select the ICC (CME Globex) tab then select, Suspend Order Entry, for the firm you want to restrict.

Services	Enabled for STP
ICC (CME Globex)	
	Remove ICC
Execution Firms	Edit
*** Account has not been synced	
***Execution-Firm (000)	

4. On the confirmation dialog that appears, select **OK**.



To allow order entry:

- 1. After resolving the reason for suspension, repeat steps 1-3, then select Allow Order Entry.
 - Perform a search for the account.
 - Select the Account.
 - Select ICC (CME Globex) tab.
 - From Execution Firms pane, select Allow Order Entry.

Execution Firms		Edit
*** Account has not been synced		
***Execution-Firm (000) (Order Entry Suspended)	Allow Order Entry	

2. On the dialog that appears, select **OK**.

Trade Type Restriction

Use the Trade Type Restriction function to restrict CME ClearPort enabled accounts from submitting block trades. Additional functions:

- View account-level trade type restrictions.
- Block Trade: Privately negotiated futures, options or combination transaction that is permitted to be executed apart from the public auction market. Minimum order size requirements, vary according to product and order type. Only negotiated with futures, options on futures and CBOT swap trades; excludes all other basis trades.

D To view and manage Trade Type Restrictions:

- 1. Select the Trade Type Restriction menu, then perform a **search**.
 - Clearing Member: View restricted accounts, organized by Account Numbers and Trading Firms.
 - Trading Firm: View and Edit restricted accounts for the Clearing Member and Trading Firm combination.
 - Trade Type: Block (default selection).
 - Short Code: Select to view only accounts flagged as short code accounts.

😝 🛛 Account Managem	lent	Dashboard	Account	Trade Type F	Restriction	i	9 🗹 🗸
Trade Type Restriction By	Account		Create New Account	: 🕹 Download	🕹 Upload	📩 Max Usa	ge Download
Clearing Member	Trading Firm — Select a Trading F	-irm ▼	Trade Type BLOCK V	ShortCode	Search		

2. For the given Clearing Member / Trading Firm selection, a list of available accounts appear.

Trade Type Restriction By Account	📩 Downl	oad 🏦 Upload		
Clearing Member Tradin tradi	g Firm ng firm 🔹	Trade Type BLOCK 🔻 🔲 Sho	ortCode Se	arch Edit
Total Available Accounts: 4				
Show 10 🔻 entries			Search:	
Account Number 🔺		Trading I	Firm 🔺	
\$COMMON10	005	trading firm		
ADSFASDFS	005	trading firm		

- 3. For selected Clearing Member / Trading Firm combination, select Edit.
- Select from available accounts to restrict (from submitting block trades), then select add(▷/▷) / remove(</(≪)).
 To select one or more accounts, press (CTRL + select) accounts.

rade Type Restric	tion By Account		土 D	ownload	🏝 Upload
Clearing Member	Trading Firm trading firm v	Trade Type BLOCK v	ShortCode	Cancel	Save
Available Accounts Search Accounts JOE1737 JOE83838	Selected Accounts Search Accounts SCOMMON10 SCOMMON10				

5. To finalize, select Save.

Calculating / Setting Option Limits

Risk controls allow <u>setting long / short option limits</u>, an optional setting. If limits are not set, trading may occur up to the specified futures long / short product limit and/or available credit.

Options are converted into futures equivalents by multiplying options quantity * delta.

Example						
Account: ABC Credit Limit: \$5,000,000 Product: SOFR Futures Max Long Quantity Limit: 10,000 Max Short Quantity Limit: 10,000	Product: SOFR Options Max Long Quantity Limit: 20,000 Max Short Quantity Limit: 20,000 Avg. Maintenance Margin Rate: \$600					
The order is entered as: Buy 10,000 SOFR APR 2023 96.50 Straddle SR3J3 94.95 Calls (1.55Δ) SR3J3 96.50 Puts (1.55Δ)	orders for the account.					
Futures						
Max Qty Short Usage = Buy Puts (10,000*1.55) = 15,500						
Options						
Max Qty Long Usage = Buy Call (10,000) + Buy Put (10,000) = 20,000 Max Qty Short Usage = 0 Margin Usage = 5,100 * \$600 (\$3,060,000)						

ClearPort Options

```
Max Long Exposure Limit = Options bought (Call / Put) – Options Sold
Max Short Exposure Limit = Options sold – Options bought
```

Account Credit Control Models

Venue	Account Credit Limit	Futures Maximum Qty Long / Short	Options Maximum Qty Long / Short
CME Globex - Inline Credit Controls (ICC)	n/a	Product Level in Contract Terms - Futures Position Limit See <u>Example</u> (below)	Product Level in Contract Terms - Options (Delta Equivalent) Position Limit See <u>Example</u> (below)
CME Globex - CME Direct	SPAN-Like Margin Calculation Model Futures and Options	Product Level in Contract Terms - including Futures and Options (Delta Equivalent) Position Limit See <u>Example</u> (below)	Product Level in Contact Terms - Options Position Limit See <u>Example</u> (below)
CME ClearPort	SPAN (True) Margin Calculation Model Futures and Options	Product Level in Contract Terms - including Futures and Options (Delta Equivalent) Position Limit See <u>Example</u> (below)	Product Level in Contract Terms - Options Position Limit See <u>Example</u> (below)

Product Position Limit Checking

ClearPort product position limit checking is an optional risk check, offered in addition to the mandatory credit limit check, that may be set for clearing and trading accounts. Product position limit checks operate on a current trading day basis with all account positions starting with a zero (flat) position each new trading day.

Separate Long / Short Position Limits may be set at the Future and Option Product Levels

A risk administrator can set position limits for Future (e.g. CL) and Option (e.g., LO) products with separate long and short position limits for each.

Example: A risk admin may set a long limit of 100 and a short limit of 120 for CL Futures, and the admin may set a long limit of 500 and a short limit of 525 for LO Options.

Both sets of limits may be set for a particular ClearPort clearing account or for a trading account (sub-account).

Futures Products

Position Limits on the Future Product Controls Delta Position that Result from both Futures and Options Trading

When calculating the future product's position utilization or trading in futures and options for the future contribute to position utilization.

Example: A buy for 200 LO call options (CL is underlying future) with a .50 delta will contribute 100 to the CL long future position. If the same account sells 50 CL futures, the net position in CL futures will be long 50.

Futures General Equations

Where both Traded Long and Traded Short are represented in positive numbers

- Total Long Position Utilization in Future Product = (Traded Long in Future + Traded Long (futures equivalent) in option on that future) (Traded Short in Future + Traded Short (futures equivalent) in option on that future)
- Total Short Position Utilization in Future Product = (Traded Short in Future + Traded Short (futures equivalent) in option on that future) (Traded Long in Future + Traded Long (futures equivalent) in option on that future)

Futures Example

Consider the following trades in a ClearPort account:

- Trade: Trade: Bought 25 CLF25
- Trade: Bought 30 CLZ26
- Trade: Sold 15 CLZ25
- Trade: Sold 25 LOG24 75.00 Puts w/.50 delta (Futures Equivalent = Long 12.5 CL)
- Trade: Bought 350 LOF24 35.00 Puts w/.1 delta (Futures Equivalent = Short 35 CL)
- Trade: Sold 100 LOG24 70.00 Calls w/.75 delta (Futures Equivalent = Short 75 CL)

Total Long Utilization in CL Future = (25 + 30 + 12.5) - (15 + 35 + 75) = -57.5 (short position) Total Short Utilization in CL Future= (15 + 35 + 75) - (25 + 30 + 12.5) = 57.5*Will display as a 0 (zero) long position utilization on risk management user interface

Option Products

Position Limits on the Option Product Controls Net Options Bought or Sold (no delta or market direction is considered).

Options General Equations:

- Total Long Option Utilization = Total Options Bought (calls and puts) Total Options Sold (calls and puts)
- Total Short Option Utilization = Total Options Sold (calls and puts) Total Options Bought (calls and puts)

Options Example

Consider the following trades in a ClearPort account:

- Trade: Sold 25 LOG24 75.00 Puts w/.50 delta (Futures Equivalent = Long 12.5 CL)
- Trade: Bought 350 LOF24 35.00 Puts w/.1 delta (Futures Equivalent = Short 35 CL)
- Trade: Sold 100 LOG24 70.00 Calls w/.75 delta (Futures Equivalent = Short 75 CL)

Total Long Utilization in LO Option = 350 - (25 + 100) = 225 Total Short Utilization in LO Option = (25 + 100) - (350) = -225 (long position) Will display as a 0 (zero) short position utilization on risk management user interface

FX Prime Broker and Direct Participant Quick Start

The following guide is an overview of the FX Link / Spot FX onboarding and setup process; using Account Management Service / Entity Risk Management functions.

Spot FX Credit Limits are managed via CME Account Management Service (AMS), which supports:

- Limit setting at the product (currency pair) level
- Real time enforcement of updated credit limits
- Monitoring of credit limit utilization by product (currency pair)
- Ability to suspend new order entry with one click
- Resting orders can also be cancelled by calling CME's Global Command Center.
- Email alerts based on configurable threshold levels
- Cross product (currency pair) aggregate exposure monitoring
- Aggregated view of limits and exposure across products for reference

Spot FX Onboarding and Registration

Complete Onboarding Forms

- **Primary FX Firm Authorization**: Used by the Primary FX Firm officer to authorize CME to generate a Spot FX Firm Number to create a relationship between the Primary FX Firm and a Spot FX Firm (Permitted Users and / or Direct Participant), as a credit counterparty for Spot FX Transactions that result from Spot FX Basis Trades.
- Spot FX In-line credit controls access request: Request credit administrator application user entitlement.

Prior to setup, users must have an active CME Group Login.

To register a CME Group Login, go to: https://login.cmegroup.com/sso/register/.

• Mapping Spot FX Firm to CME Globex execution firms: Spot FX firms will be available once the onboarding is complete. Designate associations between Spot FX Firm(s) and Executing Firm(s).

Note: Not required if the firm is registered for CME ClearPort or STP

CME FX Link Counterparty Registration

• Set up Trading Firm(s): Request allocation of Spot FX credit limits to the registered firm for submitted Spot FX Basis Trades.

Note: Not required if the firm is registered for CME ClearPort or STP

Account Management Service / Entity Risk Management Setup

To setup and enable a Spot FX account:

- A. Link Trading Firms and Accounts
- B. Set Trading Firm Limits
- C. Create a Spot FX account and associate execution firms
Linking Accounts to Trading Firms

To Link Trading Firms:

- 1. From the Entity Risk Management menu, select Spot FX.
- 2. From the Spot FX page, select the **Prime Broker Firm** to view / manage.

If you are entitled for one Spot FX firm, it is automatically selected.

Entity Risk Management			0 5 2 0
Spot FX Firm: Spot_PB			
Spot FX Firm Limits			^
*Note that the Reference	Limit is NOT enforced		
Notional Reference Over All Products (I thousands)	Limit n USD 100		
Product Group	Product		
ALL	≑ ALL	:	•
		Spot FX Firm Limits ((In USD Thousands)
Product Group 🔺	Product Symbol 🔺	Max Qty Long	Max Qty Short

3. In the Link a Trading Firm field select / link a trading firm, then select Link.

Link Trading Firms	A 	Associate a New Trading Fi ACorp	rm Link	
Associate a New Trad	ing Firm	Link new firm		
Show 10 • entries			Search:	
Remove Trading Firm ▲	Linked Trading Firms ▲	Number of Execution Firms 🔺	Number of Accounts 4	Action 🔺
⊗	TEST1 Select	0	0	
\otimes	Spot CO.	0	0	

As you type, trading firms appear in a list; select from available options.

A confirmation message indicates successful linking and the Trading firm is added to the list of linked firms.

Link Trading Firms		
Associate a New Trading Firm	~	Trading Firm has been linked. 🚫

- 4. Select the newly created Trading Firm.
- 5. From the Execution Firm pane, select Edit, then specify Execution Firm(s) to link, then select Save.

Spot FX			
Trading Firm: TEST1			Back to Trading Firm
Execution Firm	Edit	Thresholds and Alerts	Edit
Execution Firm		50% 60% 70%	80% 90% 100%
		Email Recipients user@firm.com	
Trading Firm Limits			Edit
*Note that the Reference Limit is NOT enforced Notional Reference Limit Over All Products (In USD thousands)			
* Limits appearing in Orange indicate that the limit become effective once the markets reopen. "Not S Product Group	t set here is Set" limits ar	not yet effective. Limits set w e effectively unlimited. Product	hen the market is closed may
ALL	\$	ALL	\$
		Spot FX Firm Limits	s (In USD Thousands)
Product Group 🔺 Product Syml	hol 🔺	Max Qty Long	Max Qty Short

- 6. From the Trading Firm Limits panes specify:
 - Execution Firm

Execution Firm	Cancel	Save
Execution Firm		
Choose an EF		

• Thresholds and Alerts: Set email alerts when an account uses a select percentage of its limit thresholds (50% to 100%) and up to 20 email recipients.

Account Management Service

Thresholds	and Alerts			Can	cel Save
50%	60%	70%	80%	90%	100%
		1			
Email Recipi	ents		-		
user@firm	n.com x E	Enter an Em	ail		

• Spot FX Firm Limits (in USD thousands)

Trading Firm Limits	Cancel Save
*Note that the Reference Limi Notional Reference Limit Over All Products (In USD thousands)	t is NOT enforced

7. To finalize, select **Save**.

Setting Trading Firm Limits

To Link Trading Firms:

1. From the Entity Risk Management menu, select Spot FX.

🗙 Entity Risk Manager 🖉				
Entity Risk Management	Dashboard	Policy & Threshold	Spot FX	User Max Qty Limits
Spot FX				
Spot FX Firm: - Select Spot FX Firm-				

- 2. On the Spot FX page, select the **Spot FX firm** to manage.
- 3. Select the **Trading Firm** to manage.

Link Trading Firms					
Associate a New The Link a trading firm	rading Firm				
Show 10 • entrie	25			Search:	
Remove Trading Firm 🔺	Linked Trading Firm	1S 🔺	Number of Execution Firms	Number of Accounts	Action 🛥
	Trading1		2	1	Suspend Order Entry
	Trading2		2	1	Suspend Order Entry
	005 trading firm		2	1	Suspend Order Entry

4. From the **Trading Firm Limits** pane, select **Edit**, then specify the **Reference Limit** and Spot FX Trading Firm **Limits** (in USD thousands).

Trading Firm Limits		E	dit - Cancel Save ^
*Note that the Reference Limit is NOT enforced		-	
Notional Reference Limit Over All Products (In U	JSD thousands)		
* Limits appearing in Orange indicate that the limit set here Product Group	e is not yet effective. Limits set when the market is c Product	losed may become effective once the	ot Set" limits are effectively unlimited.
ALL	◆ ALL	\$	
		Spot FX Firm Limits (In	USD Thousands)
Product Group 🔺	Product Symbol 🔺	Max Qty Long	Max Qty Short
FINANCIALS - FOREIGN EXCHANGE - MAJORS	AUDUSD SPOT FX (AUDUSD.FXSPOT)	0	0
FINANCIALS - FOREIGN EXCHANGE - MAJORS	EURUSD SPOT FX (EURUSD.FXSPOT)	0	0
FINANCIALS - FOREIGN EXCHANGE - MAJORS	GBPUSD SPOT FX (GBPUSD.FXSPOT)	0	0
FINANCIALS - FOREIGN EXCHANGE - MAJORS	USDCAD SPOT FX (USDCAD.FXSPOT)	0	0
FINANCIALS - FOREIGN EXCHANGE - MAJORS	USDJPY SPOT FX (USDJPY.FXSPOT)	0	0
FINANCIALS - FOREIGN EXCHANGE - MINORS	USDMXN SPOT FX (USDMXN.FXSPOT)	0	0

5. To finalize, select **Save**.

Creating a Spot FX account

Following Trading and Execution Firm setup, before the entity is authorized to submit orders; go to Account Management Service to create an account that is associated with the Execution Firm.

The following instructions illustrate the process to create a clearing account, entitled for Inline Credit Controls (ICC) and used for Spot FX.

After creating a ICC enabled account, Spot FX require a Central FX Prime Broker to use Entity Risk Manager to associate (link) a trading firm with the CME Globex Executing firm(s).

To Create an Account:

1. From Account Management Service, perform an account search.

If the account does not exist, select **Create New Account**.

Account Manageme	ent	Dashboard Account			
ccount List			[Create New Account	i 🕹 Uploa
Account Type	Service	Account Number	Account Alias	Spot FX Ref Number	Clearing N
Clearing Acct 🐱	ICC 🗸	Account Number/LEI	Account Alias	Spot FX Ref Number	Clearing
Account Owner / LEI		Execution Firm	Status		
Search By Owner		Text Search EF	All 🗸	Search	

2. On the page that appears, specify **Clearing Account Settings**.

denotes a required field Margin Account in Red indicates inActive Clearing Account Settings Clearing Member Account Number Description Choose a Clearing Member Account Number Enter Account Number Enter Description Asset Manager (Controller) Firm Enter Owner Enter Asset Mgr House/Customer Indicator CTI Code Portfolio Margin Futures Delegated Intermediary (DI) Margin Account Margin Account Owner Firm SELF Services ClearPort Clearing Enable CCC (CME Globex) Enable	reate Account				Back To Search
Clearing Account Settings Clearing Member Choose a Clearing Member Asset Manager (Controller) Firm Enter Owner House/Customer Indicator CTI Code Portfolio Margin Futures Delegated Intermediary (DI) Margin Account Owner Firm SELF SELF ClearPort Clearing Enable ClearPort Clearing	enotes a required field Margin Ac	count in <mark>Red</mark> indicates inAct	ive		
Clearing Member Account Number Description Choose a Clearing Member * Enter Account Number * Enter Description Owner Firm Asset Manager (Controller) Firm Enter Owner Enter Asset Mgr House/Customer Indicator CTI Code Portfolio Margin Futures Delegated Intermediary (DI) Margin Account Margin Account Owner Firm SELF ClearPort Clearing Enable ICC (CME Globex) Enable	learing Account Settings				^
Enter Owner Enter Asset Mgr House/Customer Indicator CTI Code Portfolio Margin Futures Delegated Intermediary (DI) Margin Account Margin Account Owner Firm © Customer O House * 4 • Delegated Intermediary (DI) Margin Account SELF * Services Enable Enable Enable Enable Enable Enable for STP ONLY ClearPort Clearing Enable ICC (CME Globex) Enable Enable Enable	Clearing Member Choose a Clearing Member Owner Firm	Account Number	Description * Enter Description Firm		
Services Enable for STP ONLY ClearPort Clearing Enable ICC (CME Globex) Enable	House/Customer Indicator CTI Code	Portfolio Margin Futures	Delegated Intermediary (DI)	Margin Account SELF \$	Margin Account Owner Firm SELF
ClearPort Clearing Enable ICC (CME Globex) Enable	Services				Enable for STP ONLY
h	ClearPort Clearing Enable ICC (CN	IE Globex) Enable			
Note: Required fields are indicated by a red asterisk (*). he Clearing Account Settings pane includes a button A to minimize its appearance.	Note : Required fields are ne Clearing Account Settings	e indicated by a red as pane includes a buttor	terisk (*). n ∧ to minimize its a	ppearance.	

Clearing Account Settings Clearing Member

clearing weinber

If an authorized Spot FX Prime Broker Firm is selected, the field name also updates. Prime Broker firms assume financial and performance responsibility for all transactions executed through them and cleared by CME Clearing whether it is for the account of a customer, member, or their own account. Account Number

The alphanumeric identifier for CME ClearPort or CME Globex accounts.

- CME ClearPort: Up to 20 characters.
- CME Globex: Up to 12 characters.

Do not use the following special characters in the first, second or last position.

@	at			
%	percent			
٨	caret			
&	ampersand			
(left parentheses			
)	right parentheses			
_	underscore			
=	equal			
{	left brace			
}	right brace			
]	left bracket			
]	right bracket			
	vertical bar			
\	backslash			
:	colon			
;	semi colon			
П	double quote			
1	single quote			
<	less than			
>	greater than			
,	comma			
	period			
Space	space			

Description

User specified identification details Owner Firm

The Trading firm owner of this account. Available if the clearing account is designated as Delegated Intermediary (DI); specify by the clearing member firm. Additional details are inherited from Trading Account Owner.

DI (parent) accounts cannot be updated via Bulk upload.

Asset Manager (Controller) Firm

Enter the name in the field; available choices appear based on the partially entered name.

For DI and sub-accounts: If an asset manager firm is assigned to the clearing account, trading sub-accounts cannot be created and the DI selection will not be available.

House / Customer

Indicates whether the account represents customer segregated funds or house funds.

Account Management Service

CTI Code

CTI1 - An individual member trading for her or her own account, CTI2 - A member firm trading for its proprietary account, CTI3 - A member firm trading for another member, CTI4 - All others individuals. Portfolio Margin Futures

Enables the account for the CME Portfolio Margining program for futures **Delegated Intermediary (DI)**

Specified by the clearing member firm administrator. Margin Account

For CME ClearPort, this enables multiple customer accounts to aggregate trades for cross-account margin offsets for OTC trades.

To assign accounts to a margin account, ensure that:

Accounts are associated with the same Clearing Member Firm, beneficial owner.

CME ClearPort service is enabled for the accounts.

For non CME ClearPort accounts, the margin account is **Self**, which assigns the same account number as the owner.

Spot FX

3. From the Services pane (also known as Platform), select ICC (CME Globex).

Services	Enable for STP ONLY
ICC (CME Globex) Enable	

4. Specify Execution Firm(s)* details.

As you type, matching execution firms appear in a list; select to add.

Services	Enable for STP ONLY
ICC (CME Globex)	
	Cancel
Execution Firms	
* Choose an EF	

 Select Create, then specify whether to create as Active or Inactive Example: To configure or modify settings at a later time.

Create Account		\otimes
Create Account as Active Inactive		
	Cancel	ок

 To complete account creation and activation, view <u>Entity Risk Management - Spot FX</u> instructions to view details on linking Trading Firms and setting Spot FX Credit Controls (via ICC).

Additional Functions

Account Management Service

• Suspending Execution Firm Order Entry: Authorized FX PB administrative users can suspend new order entry for an Execution Firm; directly from the ICC (CME Globex) tab.

Using Account Management Service, perform an account search, then go to the Services - ICC (CME Globex) pane.

Services	Enabled for STP
ICC (CME Globex)	
	Remove ICC
Execution Firms	Edit
*** Account has not been synced	
***Execution-Firm (000) Suspend Order Entry	

- New Globex orders will be rejected.
- To cancel working / resting orders, an authorized Spot FX user must contact the GCC.
- Managing account-level credit controls

Entity Risk Management

• Managing Spot FX Trading Firms: Using Entity Risk Management, search and select a trading firm to manage.

Link Trading Firms					
Associate a New Trading Firm Link a trading firm					
Show 10 Tentries				Search:	
Remove Trading Firm ▲	Linked Trading Fir	ms ≜	Number of Execution Firms A	Number of Accounts	Action 🛥
	Trading1		2	1	Suspend Order Entry
	Trading2		2	1	Suspend Order Entry
	005 trading firm		2	1	Suspend Order Entry

- Setting alert thresholds and notification emails
- <u>Removing Linked Trading Firms</u>: Remove linked trading firms.
- Suspending Trading Firm Order Entry

Link Trading Firms				
Associate a New Tr	rading Firm			
Link a trading firm	n			
Show 10 • entrie	25		Search:	
Remove Trading Firm ▲	Linked Trading Firms 🔺	Number of Execution Firms A	Number of Accounts	Action 🛎
	Trading1	2	1	Suspend Order Entry
	Trading2	2	1	Suspend Order Entry
	005 trading firm	2	1	Suspend Order Entry

Support Contacts

- Global Command Center: Trading Support
- <u>Clearing House Client Services</u>: Post Trade Messaging, MQ and Traiana Connectivity
- CME Straight-Through-Processing
- Global Account Management: Onboarding / AMS support