

Connectivity To CME Globex® Using A Certified Third-Party Application

CME Globex Account Management
Date

Version 3.5

Introduction

What is a certified third party application?

- **Front-end trading software supplied by an Independent Software Vendor (ISV) or FCM/IB**
- **Provides connectivity to CME Globex via the iLink® interface and the Market Data Platform (MDP)**
- **Has been formally certified by CME as conforming to CME Globex technical and functional requirements**

First Steps

To access CME Globex using a third party software application, there are several things to identify:

- CME Class A clearing firm that will be guarantying your orders
- Clearing firm's approval of your vendor selection
- Method by which the clearing firm will establish credit limits for your application
- **Connectivity method:**
 - Direct to CME *
 - Via FCM/IB
 - Via third-party datacenter

** This presentation outlines the process for direct connectivity to CME. If you are interested in connecting via an FMC/IB or data center, contact them directly for more information.*

Overview – Direct Connectivity

The direct connectivity process consists of the following steps:

1. Attend kick-off meeting with CME Globex Account Management (GAM)
2. Review CME Globex Connection Agreement
3. Select network connectivity option
4. Schedule production date
5. Complete pre-production testing

Step 1: Kick-Off Meeting

GAM serves as the main point of contact for the CME Globex connectivity process.

- **Based on your clearing firm, you will be assigned an GAM Account Manager (AM) who will lead you through the connectivity process.**
- **Your GAM AM will schedule a kick-off meeting in person or via a conference call to review the connectivity process and the CME Globex Connection Agreement**
- **GAM can be reached at 312-634-8700, in Europe + 44 207 623 2550 or globexaccountmanagement@cme.com**

Step 2: CME Globex Connection Agreement

During the kick-off meeting your GAM AM will review CME's Globex Connection Agreement which consists of the following:

- CME Globex Connection Agreement
- Schedule 2 – New circuit request
- Schedule 3 – GCC Registered Contacts
- Schedule 6 – Clearing Form Guaranty
- Schedule 7 – Market Data Agreement
- Schedule 8 – Automated Trading System Agreement (if applicable)

All legal forms must be returned to your GAM AM prior to scheduling a connectivity date.

Step 3: Select Network Connectivity Option

Customers interested in direct connectivity have several different options available:

1. **CME DIRECTLink (U.S. Only) - CME's AT&T Managed Network; circuits are installed and managed by CME and AT&T**
2. **Client DIRECTLink (Worldwide) - allows customers and CME to connect their respective wide-area networks**
3. **Client INTERNETLink (Worldwide) – Customers can leverage existing Internet connectivity to access CME using a secure VPN tunnel**
4. **CME Globex Hubs – Customers in Europe and Singapore can work with local carriers to install physical circuits at CME's hub facilities.**

Step 3: Network Connectivity Options

1. **CME DIRECTLink provides customers with telecommunication equipment and circuit installation that is managed by CME, which includes the following:**

A) 20Mb Ethernet

B) Hybrid Solution (20M Ethernet plus DS3)

All of the CME-managed connections include the circuits, back-up connection and all required hardware.

Step 3: Network Connectivity Options

2. Client DIRECTLink is a private network that allows clients to “meet CME in the vendor cloud”

- Vendors include AT&T, MCI & Sprint
- Efficiency scales to high capacity client network connectivity beyond T1 levels

3. Client INTERNETLink allows clients the ability to leverage existing Internet connectivity to access CME using a secure VPN tunnel

- Allows clients to manage their own connectivity and equipment
- Client INTERNETLink is available from any Internet access point, anywhere in the world

Step 3: Network Connectivity Options

4. CME Globex Hubs: Client works with local, CME approved carrier to install physical circuits at CME hub facilities

- iLink (order entry)
 - MDP (Market Data)
 - CME Globex Trader – Direct (CME Software)
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- Each new customer must supply a network diagram for CME approval prior to trading
 - To order any of the above options please contact your GAM AM
 - Additional information and pricing for all of CME's network options can be found at www.cme.com/networkaccess

Step 4: Schedule Production Date

A production date can be scheduled once the following has been completed:

- CME Globex Connection Agreement
- Line Installation Complete

Step 4: Schedule Production Date

The week of your connectivity date your GAM AM will provide the following information to access CME Globex via the iLink interface:

- Network connectivity – Included IP addresses, default gateway IP and subnet mask.
- Session Configuration – Each customer will receive information to establish a trading session with CME Globex which includes:
 - FIX Gateway Session ID – a unique number assigned to every firm
 - Password – Password associated with session ID
 - Trader ID – Identifies firm to CME Globex Control Center
 - Primary IP – IP address of primary server
 - Backup IP – IP address of back-up server
 - Port – Port address of server

Step 4: Schedule Production Date

The week prior to your connection date your GAM AM will also provide the following information to access the MDP:

- MDP Production Connection Guide
- IP and port information to access MDP servers
- MDP Replay User ID and password

Step 5: Pre-Production Testing

Prior to your scheduled production date the following tests need to be completed:

- Network: Customer can complete this test without assistance from CME
- MDP: The test needs to be completed with a representative from CME's WAN Engineering Team

Step 5: Pre-Production Testing: Network

Prior to the connectivity date customers must perform the following:

- Ping Test – Ensures proper network connectivity*
- Telnet Test – The ability to telnet to the TCP port of the order routing configuration*

** Note. These tests can be done without assistance from CME networking staff.*