

**SCHEDULE B
TO DATA CENTER CONNECTION AGREEMENT**

DATA CENTER ACCESS REQUEST AND INFORMATION FORM

This Schedule B is being executed pursuant to the Data Center Connection Agreement (the “Agreement”) between CHICAGO MERCANTILE EXCHANGE INC., a Delaware corporation with its principal place of business at 20 South Wacker Drive, Chicago, Illinois 60606, U.S.A. (“CME”) and

_____ (“Data Center”).
Any capitalized terms not defined herein shall have the meaning set forth in Schedule A of the Agreement.

Data Center acknowledges and agrees that it has executed and delivered to CME, concurrently with its signature below, an “Access Request and Information Form”, attached to this Schedule B as Exhibit A (“Access Request Form”). Access requests for additional locations or more than one CME Globex Access Method must be made on additional Access Request Forms, which can be obtained at www.cmegroup.com/connectionagreement, or by contacting Exchange Connectivity and Hosting Operations at ECHO@cmegroup.com. Access Request Forms are effective only upon receipt by CME. Any changes to an Access Request Form may be made only by completing and delivering a Data Center Deletions, Changes, Assignment and Transfers form (Schedule C to the Agreement), which also can be obtained at www.cmegroup.com/connectionagreement, or by contacting ECHO@cmegroup.com.

Data Center has caused this Schedule B to be executed by its authorized representative, to be effective as of the date received by CME.

Data Center

Signature: _____

Print Name: _____

Title: _____
(Must be an authorized Officer)

Date: _____

Please return completed documentation to:

CME Global Account Management

globalaccountmanagement@cmegroup.com

All personal information provided under this form will be used, distributed, and maintained in accordance with [CME Group’s Privacy Policy](#). If completing this form on behalf of another individual, you will ensure that you have the required consent from those individuals to whom the personal information relates, or you satisfy an applicable legal basis for doing so, in compliance with all applicable laws, to enable CME Group to process such personal information.

EXHIBIT A

ACCESS REQUEST AND INFORMATION FORM

This Access Request and Information Form (“Access Request Form”) is being executed pursuant to the Data Center Connection Agreement (or, if applicable, the CME Globex Customer Agreement) (the “Agreement”) between CHICAGO MERCANTILE EXCHANGE INC., a Delaware corporation with its principal place of business at 20 South Wacker Drive, Chicago, Illinois 60606, U.S.A. (“CME”) and _____ (“Data Center”).

Any capitalized terms not defined herein shall have the meaning set forth in Schedules A and B of the Agreement.

Data Center must review this entire Access Request Form and complete those sections that relate to the CME Globex Access Method Company has selected. Data Center must sign this Access Request Form in the spaces provided under “Data Center.”

Notwithstanding anything to the contrary in the Data Center Connection Agreement, billing for connectivity will begin on the date that successful testing of the connection is completed.

Section I: DATA CENTER INFORMATION
A. General Information <i>(All Data Centers)</i>
Company Name: _____
Company Address: _____
Floor/Suite: _____ City: _____ State/Province: _____
Country: _____ Postal Code: _____ Phone Number: _____
Billing Address (if different from address above): _____
Floor/Suite: _____ City: _____ State/Province: _____
Country: _____ Postal Code: _____ Phone Number: _____

B. Connectivity Information – Data Center Site Details (All Data Centers)

Site Address: _____ (the “Premises”)
Floor/Suite: _____ Cage/Closet: _____ City: _____
State/Province: _____ Postal Code: _____
Country: _____ On-Site Phone Number: _____
Primary Contact: _____
Phone: _____ Mobile: _____ E-mail: _____
Secondary Contact: _____
Phone: _____ Mobile: _____ E-mail: _____
24 Hr. Contact: _____
Phone: _____ Mobile: _____ E-mail: _____

C. Detailed Installation Instructions (e.g., closet location, inside wiring instructions, building access, etc.)

Section II: BANK AND ACCOUNT INFORMATION

Please provide the following account auto-debit information:

Company Billing Contact: _____
Phone: _____ Mobile: _____ E-mail: _____
Name of Bank used by Company: _____
Name on Bank Account (*a voided check from the account must be attached for verification purposes*):

Bank address: _____
City: _____ State/Province: _____
Country: _____ Postal Code: _____
Transit/ABA Number: _____ Account Number: _____

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Section III: NETWORK ACCESS OPTIONS

A. Client INTERNETLink:

With this Client-managed option, Data Center connects to CME via a secure tunnel over the internet.
Applicable to CME Designated Contract Markets only - not available for BrokerTec.

Bandwidth subscription in 0.5 Mbps increments: _____ Mbps

Please select the CME interfaces you are requesting access to:

Clearing Drop Copy iLink MDP ClearPort, CME Direct, SFTP

VPN Device Profile

Source Public IP Address assigned to VPN device: _____

Technical Requirements (all items must be met)

1. Policy-Based VPN
2. IKEv2
3. Authentication via pre-shared-key (PSK)
4. Phase 1 and 2:
 - a. Encryption: AES256
 - b. Hash/PRF: SHA256 o Key Exchange: DH Group 14
5. PFS: Enabled, DH Group 14
6. Customer VPN device IKEv2 identity must match IP address used for peering
7. GRE tunnel for the transport of CME Market Data Platform (MDP) multicast packets
8. PIM: PIM sparse-mode
9. All customer VPN traffic must be sourced from an RFC1918 IP subnet assigned by CME

Physical address of VPN Site: _____

Primary Network Engineer

Network Engineer Name: _____

Phone Number: _____ Mobile Phone Number: _____

E-mail address: _____

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B. CME GLink – 10 Gbps:

Available only if Data Center is a CME co-location licensed space holder with required Agreements on file (Connection Agreement, Master Co-Location Services Agreement and Market Data License Agreement).
Applicable to CME Designated Contract Markets only - not available for BrokerTec.

GLink

Please provide the following (if available):

Cabinet number: _____ Rack Unit: _____

Equipment Label: _____ Ports: _____

C. CME LNet:

Data Center or Data Center’s service provider is required to have fiber directly to the respective Meet-Me-Room for the respective offering. This option is not available to exchanges other than Participating Exchanges.

Please select only one: CME (Designated Contract Markets) BrokerTec

Interface/Handoff: 10G-LR (SMF) 1G-LR (SMF)

Select facility:

CenturyLink/Cyxtera Digital Realty/DRT Equinix Telx

Floor / Suite / Location, where equipment will be installed: _____

Cabinet / rack information: _____

If space is leased through a third party, please name: _____

Data Centers are required to have space pre-arranged at the specific co-location facility before submitting this form. Please note that floor and suite location must be within the predefined and CME Group approved space in the facility. Any and all charges required from the fiber provider/data center are the sole responsibility of the Data Center.

D. CME EConnect Halsey/111 8th:

To ensure proper end-to-end circuit delivery, when Data Centers request price quotes from their Carriers, they should state that the Carrier needs to include any cross connect/extension that may be required to get the Carrier's circuit to the CME-provided demarcation point. This option is not available to exchanges other than Participating Exchanges.

Each data center connection must be a single mode fiber handoff with either a 10 Gbps interface or a 1 Gbps interface. CME will provide Letter of Authorization (LOA) as needed.

Please select only one: CME (Designated Contract Markets) BrokerTec

Bandwidth: _____ Interface/Handoff: 10G (SMF) 1G (SMF)

165 Halsey Street, NJ - Lightower Data Center

Carrier: _____

Co-location status:

Co-located within this data center and will cross connect to CME within the facility

Not co-located here. Carrier to drop circuit at Meet-Me-Room demarc*

**The cross connect is the sole responsibility of the Customer. In the case where the Customer is not co-located, the Carrier must order the cross connect for the Customer.*

111 8th Avenue, NY - Lightower Data Center

Carrier: _____

Co-location status:

Co-located within this data center and will cross connect to CME within the facility

Not co-located here. Carrier to drop at Meet-Me-Room demarc**

***The cross connect is the sole responsibility of the Customer. In the case where the Customer is not co-located, the Carrier must order the cross connect for the Customer.*

E. CME EConnect NY5/NY4:

Fiber handoff provides access to CME Group A and B Feeds via cross connects to NY5 and NY4. Data Centers will receive two LOAs with CME provided demarcation points – one for NY5 and another for NY4.

Please select only one: CME (Designated Contract Markets) BrokerTec

Secaucus, NJ - Equinix Data Center

Interface/Handoff: 10G (SMF) 1G (SMF)

Floor / suite location: _____

Cabinet / rack: _____

If space is leased through a third party, please name: _____

All charges required from the fiber provider/data center are the sole responsibility of the Customer.

F. CME EConnect NY5:

Provides the lowest latency of all EConnect offerings. Fiber handoff provides access to CME Group A and B Feeds via cross connects to NY5. Customers will receive a Letter of Authorization with demarcation points provided.

The CME EConnect NY5 service is only available to BrokerTec trading participants and service providers who host a BrokerTec approved trading application. Use of CME EConnect NY5 by third parties who provide network connectivity and hosting without trading application services is strictly prohibited.

BrokerTec only - Not available for CME Designated Contract Markets

Secaucus, NJ - Equinix Data Center NY5 Interface/Handoff: __ 10G (SMF) __ 1G (SMF)

Floor / suite location: _____

Cabinet / rack: _____

If space is leased through a third party, please name: _____

All charges required from the fiber provider/data center are the sole responsibility of the Customer.

G. CME NYDR VPN:

Available for Data Centers that do not have redundancy outside the Chicago area.

Existing Site IDs: _____

Justification: _____

Customer Source Public IP Address assigned to VPN device: _____

Technical Requirements (all items must be met)

1. Policy-Based VPN
2. IKEv2
3. Authentication via pre-shared-key (PSK)
4. Phase 1 and 2:
 - a. Encryption: AES256
 - b. Hash/PRF: SHA256 o Key Exchange: DH Group 14
5. PFS: Enabled, DH Group 14
6. Customer VPN device IKEv2 identity must match IP address used for peering
7. GRE tunnel for the transport of CME Market Data Platform (MDP) multicast packets
8. PIM: PIM sparse-mode
9. All customer VPN traffic must be sourced from an RFC1918 IP subnet assigned by CME

Physical address of VPN Site: _____

Primary Network Engineer

Network Engineer Name: _____

Phone Number: _____ Mobile Phone Number: _____

E-mail address: _____

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H. CME Globex Hub Access:

Available with a copper or fiber handoff on a 1 Gbps interface or a fiber-only handoff on a 10 Gbps interface.

- *Each cross connect is the sole responsibility of the Data Center. In the case where the Data Center is not co-located, the Carrier must order the cross connect for the Data Center.*

Select the appropriate CME Globex Hub and data center and provide related information:

a. **London** CME Globex Hub – Choose the option that applies:

Customers who lease space in Equinix: Customer will order 2 cross connects to obtain both the A and B feeds from the CME Group access nodes in Equinix/Slough.

Customers who do not lease space in Equinix: Customers will work with their Carriers to have one circuit delivered to the primary CME Group access node in Equinix/Slough and the other to the secondary CME Group access node in Interoute/Global Switch 2.

Equinix/Slough

If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

Interoute/Global Switch 2

If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

If only one data center is chosen, customer understands the recommendation is for customers to have resilient primary A and secondary B feeds. In the event of an outage, customer understands and accepts the risks, limitations and liabilities associated with a single (non-redundant) connection.

b. **Hong Kong** CME Globex Hub – **NTT Tseung Kwan O Data Center**

If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

Hong Kong CME Globex Hub – **Verizon Tsuen Wan Data Center**

If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

If only one data center is chosen, customer understands the recommendation is for customers to have resilient primary A and secondary B feeds. In the event of an outage, customer understands and accepts the risks, limitations and liabilities associated with a single (non-redundant) connection.

c. **Seoul CME Globex Hub – LGCNS Data Center (Verizon)**
If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

Seoul CME Globex Hub – KT Data Center (NTT)
If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

If only one data center is chosen, customer understands the recommendation is for customers to have resilient primary A and secondary B feeds. In the event of an outage, customer understands and accepts the risks, limitations and liabilities associated with a single (non-redundant) connection.

d. **Singapore CME Globex Hub – 1-Net Data Center (AT&T)**
If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

Singapore CME Globex Hub – Equinix SG3 Data Center
If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

If only one data center is chosen, customer understands the recommendation is for customers to have resilient primary A and secondary B feeds. In the event of an outage, customer understands and accepts the risks, limitations and liabilities associated with a single (non-redundant) connection.

e. **Tokyo CME Globex Hub – Choose the option that applies:**

Customers who lease space in AT Tokyo Data Center; Customers will order 2 cross connects to obtain both the A and B feeds from the CME Group access nodes in the AT Tokyo Data Center.

Customers who do not lease space in AT Tokyo Data Center; Customers will work with their Carriers to have two circuits delivered to the CME Group access nodes to obtain both the A and B feeds in the AT Tokyo Data Center.

AT Tokyo Data Center

If space is leased through a third party, please name: _____

Carrier: _____ Bandwidth: _____ Interface: 10G (SMF) 1G (SMF) 1G Copper

f. **Aurora CME Globex Hub** (BrokerTec only - Not available for CME Designated Contract Markets)

Interface/handoff: 10G-LR (SMF) 1G-LH (SMF)

Floor / Suite / Location, where equipment will be installed: _____

Cabinet / rack information: _____

If space is leased through a third party, please name: _____

Customers are required to have space pre-arranged at the specific co-location facility before submitting this form. Please note that floor and suite location must be within the predefined and CME Group approved space in the facility. All charges required from the fiber provider/data center are the sole responsibility of the Customer.

Utilization, please select ONE of the following:

Access to BTec Production in Secaucus

BTec Disaster Recovery in Aurora