



CME Globex[®] Platform

Jackson Direct

Version: 1.0
Last Update: 4/23/2008

Jackson Direct Connectivity

1.0 Technical Overview

Jackson Direct is a client-managed connectivity solution to the CME Globex platform via CME Group-approved fiber providers at the Chicago Board of Trade building. Customers utilizing Jackson Direct are required to house a CME Group-certified trading application at the Chicago Board of Trade building.

Circuit Specifications

- 1 Gbps hand-off shaped to 40 Mbps port
- Single-mode fiber
- 1000BASE-LH long-wavelength/long haul; without DOM

The CME Globex production environment supports order entry, market data, and clearing transactions. Please contact [CME Globex Account Management](#) at 312.634.8700, or at + 44 (0) 20 7796 7100 in Europe; or at +852.3101.7696 in Asia.

Jackson Direct connectivity provides access to:

- Market Data Platform
- iLink[®]
- CME Clearing House systems
- CME EOS Trader[®]

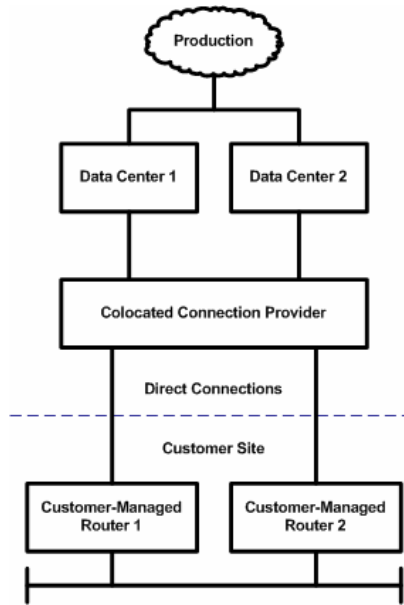


Figure 1. High-Level Jackson Direct Connectivity Diagram

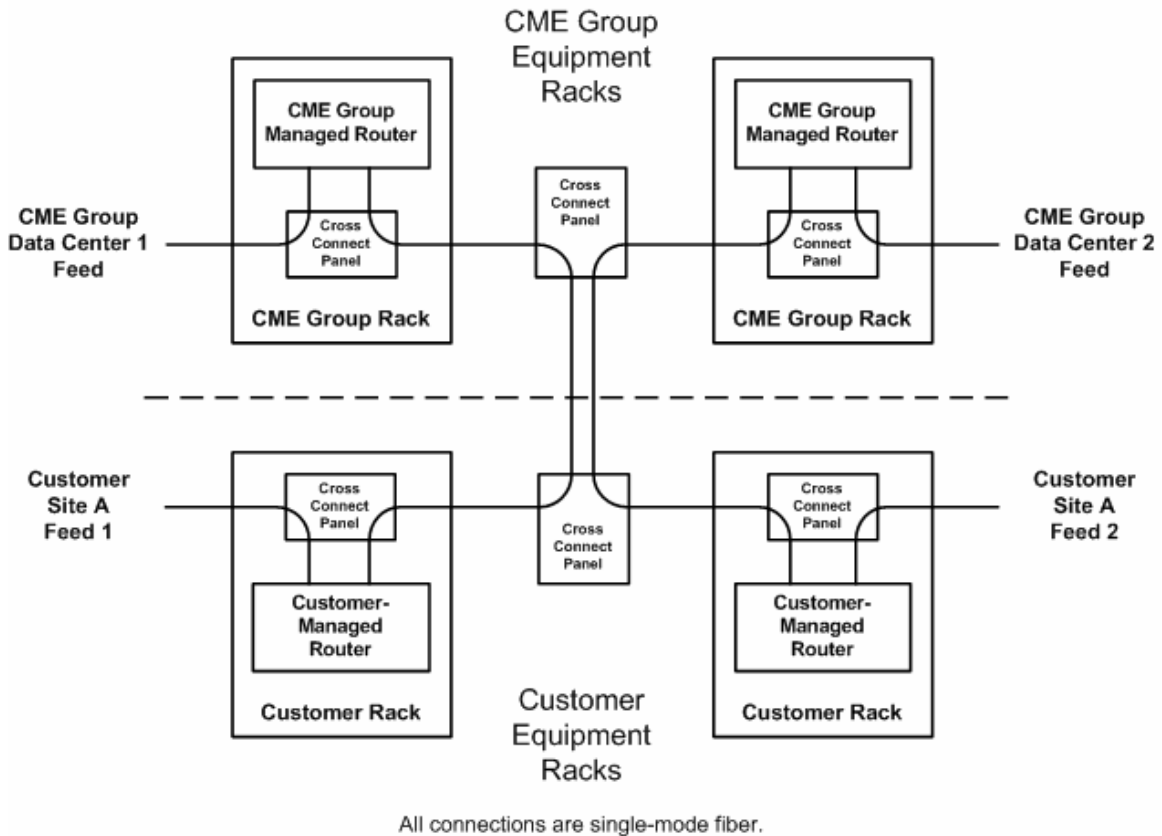


Figure 2. Detailed Jackson Direct Connectivity Diagram

2.0 Requirements

2.1 Customer Requirements

Customers must meet the following requirements:

- Must be a tenant of record at the Chicago Board of Trade building. This customer leased suite space is where the connection must be established. Access from other areas within the facility is not provided, i.e. interstitial, trading floor, etc.
- Work with a CME Group-approved fiber provider to complete needed fiber run to the patch panel.

Contact Cogent, Brian Lucitt - Chicago Network Engineer - (312) 960-6905 or blucitt@Cogentco.com.

- Customer production system must be located at the Chicago Board of Trade building.
- Provide two routers or Layer 3 switches that will terminate each 1 Gbps, single-mode fiber cross-connect.
- The point-to-point IP address must be configured on the interface closest to the CME Group device.
- CME Group recommends that the customer checks the Signal/Light levels at the time of turn up in order to attenuate levels to protect equipment.
- Avoid using media converters, if possible.
- The customer's SFP or GBIC must be compatible with long wavelength/long haul (1000BASE-LH) SFPs.
- Customer works with internal fiber provide to extend service to fiber Meet Me Room (MMR). The customer owns the installation and on-going relationship with the fiber provider.

2.2 Routing Requirements

Customer routers must be capable of using advanced TCP/IP Protocols including BGP and multicast, specifically PIM Sparse Mode.

- BGP routing must be used on the routers terminating the CME Group connections.
- It is recommended that customers use a routing protocol between their routers to provide automatic failover.
- All IP packets destined for CME Globex must be sourced from the CME Group-assigned private address space.
- Multicast PIM Sparse Mode must be used.

2.3 Restrictions

The following restrictions apply to Jackson Direct connectivity:

- No site-to-site connectivity.
- No direct server connectivity into CME Globex.
- Terminating the circuit on a Layer 2 device is not allowed.
- CME Group will not accept traffic sourced from any customer's public IP space.
- Only one Market Data Platform data feed per router is allowed.
- Customer hardware must be capable of supporting quote streams (e.g., PIM sparse mode).

3.0 Establishing Jackson Direct Connectivity

Use the following procedure to establish connectivity:

1. Customer leases suite space at the Chicago Board of Trade building.
2. Customer submits all required executed paperwork, including Schedule 2 Access Request Form with floor/suite, to the CME Globex Account Manager.
3. Customer works with CME Group-approved fiber provider to extend fiber to patch panel.
4. CME Group receives and processes the paperwork. CME Globex Services will issue a Letter of Authorization (LOA) to the customer. The LOA contains the CME Group demarcation for the primary and secondary cross-connects.
5. Customer informs CME Globex Services when the cross-connects are completed and the 2x Layer 3 routers are installed.
6. CME Globex Services schedules a physical site survey with the customer.
7. CME Globex Services schedules a network connectivity test. CME Group requires that a knowledgeable contact from the firm be on site to attend the site survey as well as the NSA (circuit turn up).

Testing will be scheduled for a weekday after 4:30 pm Central time (CT).

8. Upon successful test, CME Group notifies customer of completion and billing commences.

Please see www.cmegroup.com/networkaccess/ for Jackson Direct fee information.

CME Troubleshooting and Support

If you experience issues with your Jackson Direct connection, please call the CME Globex Control Center (GCC) at 312-456-2391.

For general Jackson Direct questions, please contact [CME Globex Account Management](#) at 312.634.8700, or at + 44 (0) 20 7796 7100 in Europe; or at +852.3101.7696 in Asia.