

	CME DIRECTLink		CME EConnect	LNet	Jackson Direct	CME GLink	CME Globex Hub	Client INTERNETLink	CME NYDR VPN
	T1 access	Ethernet access							
Definitions	CME Group-managed option with high capacity access up to 100Mbps.		Client-managed solution allowing customers to cross connect to the CME Group data centers in NY and NJ via a cross connect within the data centers or via a circuit delivered to the MMR within the CME POP facilities	Client-managed solution via a CME Group-specified colocation facility. Customers are required to house the CME Group-certified trading applications at the colocation facility.	Client-managed solution via CME Group-approved fiber provider(s) at the 141 W. Jackson facility. Customer works with fiber provider to extend service to fiber Meet Me Room. Customer owns the installation and on-going relationship with the fiber provider, and must have an established presence at the 141 W. Jackson facility.	Client-managed solution that will provide the lowest latency connectivity to the CME Globex platform and is available only at CME Group's co-location facility	Client-managed physical connection to the CME Group data centers in Europe and Asia: (Amsterdam, London, Milan, Paris, Sao Paulo, Seoul, Kuala Lumpur, Mexico and Singapore)	A secure, encrypted VPN tunnel through the Internet.	A secure, encrypted VPN tunnel through the Internet that is only activated by CME as a result of a DR event involving CME Chicago-based data centers or during scheduled testing/maintenance windows.
Supported Interfaces	All client interfaces: iLink, Market Data Platform and CME Clearing systems								
Capacity & Bandwidth	T1 bandwidth	20, 40 & 100Mbps†	1 Gbps handoff	40 & 100Mbps		1 Gbps & 10 Gbps (10 Gbps inbound rate limited to 1 Gbps)	Ethernet	Increments of 0.5Mbps up to 20Mbps	Customer Internet connection
Redundancy	T1 2 T1 frame circuits and routers with carrier diversity	Carrier diversity for 2 circuits and 2 routers	Access to 2 data centers provided by diverse carriers	CME Group recommends customers maintain a redundant site		CME recommends customers maintain a redundant site	Access to 2 data centers provided by diverse CME Group-authorized carriers	Dependent on client Internet connection	Dependent on client Internet connection
CME Group- or Client-managed	CME Group-managed		Client-managed	Client-managed		Client-managed within CME's colocation facility	Client manages connection(s) to data center. CME Group manages the equipment on-site at the data center and connections back to Chicago.	Client and CME Group manage their respective connections to the Internet	Client and CME Group manage their respective connections to the Internet
Cost	\$3,500 monthly	Monthly charge based on bandwidth subscription and Ethernet availability	1 Gbps = \$8,000 monthly	40Mbps - \$6,000 monthly 100Mbps - \$8,000 monthly		1 Gbps = \$8,000 Monthly 10 Gbps = \$12,000 Monthly One-Time Install = \$2,000	\$6,000 annually for leased access to CME Group data center	\$500 monthly per 0.5Mbps increment, based on bandwidth subscription to CME Group	No Charge
Minimum Commitment Period	12 months†		12 months	12 months		12 months	12 months	6 months	N/A
Availability	U.S. only								
Set-up	Contact CME Group with request Complete paperwork Work with CME Group to coordinate circuit installation		Either cross connect to CME via leased space within the respective facilities or have circuit delivered to CME designated patch panel. Contact CME Group with request and specific process requirements	Lease access to CME Group-specified colocation facilities Manage implementation of circuits and equipment Contact CME Group with request and specific process requirements	Must be a tenant of record at the 141 W. Jackson facility Manage implementation of circuits and equipment to the fiber Meet Me Room Contact CME Group with request and specific process requirements	Must have Licensed Space at CME's co-location facility. Complete paperwork. Connectivity between the CME GLink access switch and the customers Licensed Space uses an equidistant cross connect to ensure location neutrality	Lease access to both data centers in the respective city Manage implementation of connections from a CME Group-authorized carrier. Contact CME Group with request and specific process requirements	Have a secure Internet connection and Cisco router	Have a secure Internet connection and Cisco router
Best Suited for Clients Who:	Customers who prefer CME to manage connectivity		Prefer to manage their own CME Globex connection Have in-house network expertise Have a relationship with vendors that provide service within the respective facilities					Prefer to manage their own CME Globex connection Have in-house network expertise Use Cisco routers Feel comfortable using internet connectivity for production activity Need back-up production access	Connect into CME at Chicago only. Have no connectivity into any regionally diverse CME location.
CME Group-Authorized Carriers/Vendors	T1 - AT&T and VZB	VZB, ATT, Reliance & Sidera	Vendor neutral data centers	Equinix, Telx, SAVVIS & DRT-Open	Cogent, FiberNet	CME-provided cross connects included in monthly recurring cost	Contact CME Globex Services for authorized carriers	Tier 1 Internet provider	Tier 1 Internet provider

† Upgrades from Frame to Ethernet are subject to a new 12-month commitment.