Deutsche Börse's high-speed CEF® data feeds
Direct access to Real-time Data

Overview: CEF data feeds

Feed	CEF Ultra+ Order by Order	CEF Ultra+	CEF Core
Key benefits	■ Delivers data with unlimited order book depth ■ Ideal for use in algorithmic trading applications	■ Delivers pre-trade and trade data as soon as it occurs ■ Particularly suited for use in algorithmic trading applications	■ Consolidated feed ■ Optimal data stream for vendors, traders and fund managers
Information products disseminated	■ Eurex Order by Order ■ Eurex Order by Order Futures + Options ■ Xetra Order by Order	■ Eurex Ultra ■ Xetra Ultra ■ Eurex IOC Liquidity Indicator for Options	■ Broad range of real-time data products covering Eurex, Xetra, DAX®, STOXX® as well as cooperation partners
Features	■ Lowest latency ■ Un-netted pre-trade information* ■ Un-netted trade information ■ Every visible order ■ Every executed on-exchange trade	■ Ultra low latency ■ Un-netted pre-trade information* ■ Un-netted trade information ■ Price aggregated order book data ■ Level 1 or level 2**	■ Low latency ■ Netted pre-trade information* ■ Un-netted trade information ■ Price aggregated order book data ■ Level 1 or level 2**
Order book depth	■ Unlimited	■ Up to 10 for equities ■ Up to 15 for futures ■ Up to 5 for options	■ Up to 10 for equities ■ Up to 15 for futures ■ Up to 5 for options
Technology	■ High speed transmission based on multicast technology ■ Fixed-length binary messages and no data compression	■ High speed transmission based on multicast technology ■ High performance protocol based on the FIX protocol and FAST compression	■ Reliable broadcast and recovery functions ■ Dynamic message compression prevents data delay during peak load times
Access	■ Access via 10 Gbit/s co-location connection and on request via leased line	■ Access via leased lines, co-location	■ Access via leased lines, co-location, internet via VPN

* Netted pre-trade information provides bids and offers at specified time intervals; un-netted pre-trade information provides all bids and offers as soon as they occur.
** Level 1 contains best bid, best ask, last traded price and the respective quantity; level 2 information provides increased order booth depth.

www.mds.deutsche-boerse.com