

Connectivity Options That Match Your Trading Style

Align your U.S. Treasury business operations with the best-fit connection to NASDAQ's technology and market data. We provide a variety of access options including Co-Location, Direct Connect, Points of Presence, and Millimeter Wave.

PHYSICAL CONNECTIVITY

1. CO-LOCATION

Nasdaq Co-Location enables clients to place their equipment within the NASDAQ Data Center to access Nasdaq Fixed Income ("NFI"), the U.S. Treasury securities trading system, at the lowest latency available.

OFFERING	DESCRIPTION	FEES ¹	
CoLo Cabinet	Choose between a range of cabinets from Low to High Density.	Monthly Recurring Cost (MRC): Ranging from \$2,000 for a Low Density Cabinet (<=2.88kW) to \$4,500 for High Density Cabinet (7kw<=10kW)	
CoLo Nasdaq Fixed Income Only	10G hand-off.	Install: \$1,500 MRC: \$7,500	
External Connectivity To Your CoLo Cabinet	Choose any of the approved telco providers to install a direct circuit or utilize our Express Connect service.	Telco Circuit MRC: Varies by vendor and end point Cross Connect Install: \$500 Cross Connect MRC: \$350	
Connectivity To Other CoLo Clients Within Data Center	Cross connect to any co-located clients (no MRC to cross connect between your own co-located cabinets).	Install: \$500 MRC: \$350	

2. DIRECT CONNECT

Direct Connect enables clients to connect to the NASDAQ Data Center via a separate agreement with a telco vendor for the circuit. This option adds additional geographic latencies of 300+ microseconds as introduced by your telco provider.

OFFERING	DESCRIPTION	FEES ¹
Direct Connect To Nasdaq Fixed Income Only	1GB Ultra switch port.	Install: \$1,500 MRC: \$1,500
External Connectivity To Carteret	Choose from any of the approved telco providers to install a direct circuit or utilize our Express Connect service to connect to our Carteret data center.	Telco Circuit MRC: Varies by vendor and end point



3. POINTS OF PRESENCE ("POP")

The POP service enables clients to connect to Nasdaq Fixed Income from specific financial data centers.

OFFERING	DESCRIPTION	FEES ¹
POP 1GB Ultra To Nasdaq	NY4: Secaucus, New Jersey	Install: \$1,500 MRC: \$1,500
Fixed Income Only	CH4: Chicago, Illinois	Install: \$1,500 MRC: \$1,500
	LD4: London/Slough, England	Install: \$1,500 MRC: \$1,500

4. EXTRANET

OFFERING	DESCRIPTION	FEES ¹
Extranet	Choose from any of the approved extranet providers to gain access to Nasdaq Fixed Income.	Fees vary based on provider

LOGICAL CONNECTIVITY

PORTS

OFFERING	DESCRIPTION	FEES ¹
OUCH/FIX Order Entry Ports	Order entry ports to Nasdaq Fixed Income matching engine.	Install: \$0 MRC: \$500
Dedicated OUCH Server	Access NFI liquidity via a port server not shared with other firms. Controlling ports and message traffic gives firms the ability to shift connectivity to optimize their trading strategies Dedicated servers can support a maximum of 30 ports.	Install: \$0 MRC: \$2,500
FIX Drop Ports	Ports that deliver real-time trading activity information on the NFI platform.	Install: \$0 MRC: \$50
Disaster Recovery (DR) Ports (OUCH or FIX)	DR ports provide connectivity to the NFI disaster recovery platform located in a geographical diverse location from the primary engine in Carteret, NJ.	Install: \$0 MRC: \$50

WIRELESS SERVICES

METRO MILLIMETER WAVE

The Metro Millimeter Wave ("MMW") offering enables clients in the NASDAQ Data Center to receive market data from other major New Jersey metro trading hubs at 40%-50% faster speeds than any fiber based network. The Wireless Express Connect offers clients a dedicated point-to-point bandwidth for order entry, data, and other system messages.

WIRELESS SERVICE	WIRELESS CARRIER	INSTALLATION FEE	MRC	EXPECTED LATENCY*
Multicast Nasdaq Fixed Income ITCH Wave Port At Secaucus, NJ (NY2)	Apsara Networks	\$2,500	\$5,0001	87 µsec one-way
Multicast Nasdaq Fixed Income ITCH Wave Port At Secaucus, NJ (NY4)	Apsara Networks	\$2,500	\$5,0001	90 µsec one-way
Wireless Express Connect (Carteret To Secaucus- NY2- 50mb)	Apsara Networks	\$5,000	\$10,000	182 µsec round-trip

1. Prices shown do not include any fees for market data receipt or redistribution covered under Market Data Agreement.

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