

# 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.

## 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 <sup>1</sup>
CoLo Cabinet	We offer 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 Access	Includes 10G hand-off plus two FIX session (ports), two Session Manager connections (API Access), or one of each session type.	MRC: \$7,500 Install: \$1,500
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 MRC: \$350 Cross Connect Install: \$500
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)	MRC: \$350 Install: \$500

## 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 <sup>1</sup>
Direct Connect to Nasdaq Fixed Income	1 GB 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
Nasdaq Fixed Income Access Fee	Includes two FIX session ports or two Session Manager connections (API access), or one of each session type	MRC: \$2,500

### 3. POINTS OF PRESENCE (POP)

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

OFFERING	LOCATION	INSTALL	MONTHLY <sup>1</sup>
POP 1 GB Ultra	NY4: Secaucus, NJ	\$1,500	\$1,500
	CH4: Chicago, Illinois	\$1,500	\$1,500
	LD4: London/Slough, England	\$1,500	\$1,500
Nasdaq Fixed Income Access Fee	Two FIX session parts or two Session Manager connections (API access), or one of each session type		\$2,500

### 4. EXTRANET

OFFERING	DESCRIPTION	FEES <sup>1</sup>
Extranet	Choose from any of the approved extranet providers to gain access to Nasdaq Fixed Income	Fees vary based on provider
Nasdaq Fixed Income Access Fee	Includes two FIX session ports or two Session Manager connections (API access), or one of each session type	MRC: \$2,500

### 5. ADDITIONAL PORTS

OFFERING	DESCRIPTION	FEES <sup>1</sup>
Additional Nasdaq Fixed Income Sessions (Ports)	Additional sessions requested above the two already included in Nasdaq Fixed Income Access Fee (FIX or Session Manager connections).	MRC: \$500 Install: \$0

### 6. 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 Nasdaq Fixed Income ITCH Wave Port at Secaucus, NJ (NY4)	Apsara Networks	\$2,500	\$5,000 <sup>1</sup>	90 µsec one-way
Multicast Nasdaq Nasdaq Fixed Income ITCH Wave Port at Secaucus, NJ (NY2)	Apsara Networks	\$2,500	\$5,000 <sup>1</sup>	90 µsec one-way
Wireless Express Connect (Carteret to Secaucus 50mb)	Apsara Networks	\$5,000	\$10,000	175 µsec round-trip

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