Network connectivity

Revision history

Version 1.1.2 March 23, 2023

Added the recovery feed identifier for the Instruments feed in Section [2.1](#).

Version 1.1.1 March 21, 2023

Corrected adresses for the Instruments feed in Section [2.1](#).

Version 1.1.0 July 6, 2022

Created the document.

Table of Contents

1. Trading system gateways

1.1. Binary protocol gateway

Connection to the trading system via one of the binary gateways starts with connection to Discovery service. Discovery service performs logon operation and provides user with the list of available gateways, their types and IP addresses. After that user can connect to the required gateway(s). This operation is also required when user wants to reconnect to the trading system.

Discovery service — 10.239.1.5:7001 .

1.2. FIX gateway

FIX gateways:

1. 10.239.1.16:7180 — FIX trading gateway
2. 10.239.1.5:7196 — Drop-copy gateway

1.3. Message resend

Maximum number of messages requested with a single `ResendRequest` message is 1000. Several consecutive `ResendRequest` messages are required if number of requested messages exceeds 1000.

There is no limit to the maximum number of messages recovered with a single `ApplicationMessageRequest[BW]` message.

2. Market data feeds

2.1. Binary market data feeds

Transmitted market data feeds with available ports and addresses for multicast groups are listed in the table below. For more details about market data feeds and message formats, see *Native Protocol Market Data Service*.

Recovery gateway — 10.239.1.5:7132 .

> *When a client requests messages from the recovery gateway for feeds with identifiers BEX.DOM, BEX.Stats, BEX.TOB and BEX.Instruments, the recovery gateway will return messages transmitted no more than 20 seconds before the request was sent.*

Feed	Mode	Channel A	Channel B	The recovery feed identifier
OrderBook — order books updates for all accessible liquidity pools	Snapshot	239.10.38.5:6005	239.10.38.133:6133	
	Updates	239.10.38.6:6006	239.10.38.134:6134	BEX.DOM
Commons — market statistics for all accessible liquidity pools	Snapshot	239.10.38.13:6013	239.10.38.141:6141	
	Updates	239.10.38.14:6014	239.10.38.142:6142	BEX.Stats
BestPrices — top of book and trades for all accessible liquidity pools	Snapshot	239.10.38.16:6016	239.10.38.144:6144	
	Updates	239.10.38.17:6017	239.10.38.145:6145	BEX.TOB
Trades — trades matched on all accessible liquidity pools	Updates	239.10.38.26:6026	239.10.38.154:6154	BEX.Trades
CurrentPriceOfMarket — current price of market	Updates	239.10.38.92:6092	239.10.38.220:6220	IQ
Instruments — instruments status updates for all accessible liquidity pools	Snapshot	239.10.38.40:6040	239.10.38.168:6168	
	Updates	239.10.38.41:6041	239.10.38.169:6169	BEX.Instruments

Market data for colocation or links 100 Mbps and above

Clients with high bandwidth links (at least 100 Mbps) or with colocation in the SPB Exchange data center can connect to binary market data feeds transmitted with lower latency during peak activity periods. To connect to these feeds clients should send a request to the Technical support service at the email address support@itsx.kz. Transmitted market data feeds with available ports and addresses for multicast groups are listed in the table below.

Recovery gateway — 10.239.1.5:7133.

Feed	Mode	Channel A	Channel B	The recovery feed identifier
OrderBook — order books updates for all accessible liquidity pools	Snapshot	239.10.37.5:6005	239.10.37.133:6133	
	Updates	239.10.37.6:6006	239.10.37.134:6134	BEX.DOM
Commons — market statistics for all accessible liquidity pools	Snapshot	239.10.37.13:6013	239.10.37.141:6141	
	Updates	239.10.37.14:6014	239.10.37.142:6142	BEX.Stats

Feed	Mode	Channel A	Channel B	The recovery feed identifier
BestPrices — top of book and trades for all accessible liquidity pools	Snapshot	239.10.37.16:6016	239.10.37.144:6144	
	Updates	239.10.37.17:6017	239.10.37.145:6145	BEX.TOB
Trades — trades matched on all accessible liquidity pools	Updates	239.10.37.26:6026	239.10.37.154:6154	BEX.Trades
CurrentPriceOfMarket — current price of market	Updates	239.10.37.92:6092	239.10.37.220:6220	IQ
Instruments — instruments status updates for all accessible liquidity pools	Snapshot	239.10.37.40:6040	239.10.37.168:6168	
	Updates	239.10.37.41:6041	239.10.37.169:6169	BEX.Instruments

2.2. FIX/FAST market data feeds

Transmitted market data feeds with available ports and addresses for multicast groups are listed in the table below. For more details about market data feeds and message formats, see *FIX/FAST Protocol Market Data Service*.

Recovery gateway — 10.239.1.5:7136 .

> *When a client requests messages from the recovery gateway for feeds with identifiers BEX.DOM, BEX.Stats and BEX.TOB, the recovery gateway will return messages transmitted no more than 20 seconds before the request was sent.*

Feed	Mode	Channel A	Channel B	The recovery feed identifier
OrderBook — order books updates for all accessible liquidity pools	Snapshot	239.10.38.3:6003	239.10.38.131:6131	
	Updates	239.10.38.4:6004	239.10.38.132:6132	BEX.DOM
Commons — market statistics for all accessible liquidity pools	Snapshot	239.10.38.10:6010	239.10.38.138:6138	
	Updates	239.10.38.11:6011	239.10.38.139:6139	BEX.Stats
BestPrices — top of book and trades for all accessible liquidity pools	Snapshot	239.10.38.18:6018	239.10.38.146:6146	
	Updates	239.10.38.19:6019	239.10.38.147:6147	BEX.TOB
Trades — trades matched on all accessible liquidity pools	Updates	239.10.38.27:6027	239.10.38.155:6155	BEX.Trades
CurrentPriceOfMarket — current price of market	Updates	239.10.38.90:6090	239.10.38.218:6218	IQ