



Network connectivity

System version 1.11

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Revision history

Version 1.6.2 September 30, 2020

Changed addresses for snapshots and updates of the OrderBook, Trades and CurrentPriceOfMarket topics in the "Native market data topics" section

Version 1.6.1 April 17, 2020

Information about restrictions applied to messages recovery was added to the "Market data topics" section.

Version 1.6.0 March, 1 2018

Changed addresses for snapshots and updates of the Instruments topic.

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1. Trading gateways

1.1. Native protocol gateway

Connection to the trading system via one of the native 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 — 194.247.144.5:7001 .

1.2. FIX gateway

FIX gateways:

1. 194.247.144.5:7180 — FIX trading gateway
2. 194.247.144.5:7196 — Drop-copy gateway

1.3. Message retransmits

Maximum number of messages returned by single ResendRequest is 1000. Several ResendRequests are required if number of missed messages exceeds 1000.

Currently there is no limit on number of `ApplicationMessageRequest [BW]` messages sent by user.

2. Market data topics

2.1. Native market data topics

The broadcast topics with available ports and addresses for UDP-channels are listed in the table below. For more details about the topics and message formats, see *Native Protocol Market Data Service*.

Market data recovery — 194.247.144.5:7132.



When a client requests messages from the recovery gateway, the gateway will return messages transmitted not earlier, than 30 s before the request.

| Topic | Mode | UDP-channel A | UDP-channel B | The recovery topic identifier |
|---|----------|-------------------|--------------------|-------------------------------|
| OrderBook — order books updates for all accessible liquidity pools | Snapshot | 233.26.38.5:6005 | 233.26.38.133:6133 | |
| | Updates | 233.26.38.6:6006 | 233.26.38.134:6134 | BEX.DOM |
| Commons — market statistics for all accessible liquidity pools | Snapshot | 233.26.38.13:6013 | 233.26.38.141:6141 | |
| | Updates | 233.26.38.14:6014 | 233.26.38.142:6142 | BEX.Stats |
| BestPrices — top of book and trades for all accessible liquidity pools | Snapshot | 233.26.38.16:6016 | 233.26.38.144:6144 | |
| | Updates | 233.26.38.17:6017 | 233.26.38.145:6145 | BEX.TOB |
| Trades — trades matched on all accessible liquidity pools | Updates | 233.26.38.26:6026 | 233.26.38.154:6154 | BEX.Trades |
| CurrentPriceOfMarket — current price of market | Updates | 233.26.38.92:6092 | 233.26.38.220:6220 | IQ |
| Instruments — instruments status updates for all accessible liquidity pools | Snapshot | 233.26.38.36:6036 | 233.26.38.164:6164 | |
| | Updates | 233.26.38.37:6037 | 233.26.38.165:6165 | |

2.2. FIX/FAST market data topics

The broadcast topics with available ports and addresses for UDP-channels are listed in the table below. For more details about the topics and message formats, see *FIX/FAST Protocol Market Data Service*.

Market data recovery — 194.247.144.5:7136 .



When a client requests messages from the recovery gateway, the gateway will return messages transmitted not earlier, than 30 s before the request.

| Topic | Mode | UDP-channel A | UDP-channel B | The recovery topic identifier |
|--|----------|-------------------|--------------------|-------------------------------|
| OrderBook — order books updates for all accessible liquidity pools | Snapshot | 233.26.38.3:6003 | 233.26.38.131:6131 | |
| | Updates | 233.26.38.4:6004 | 233.26.38.132:6132 | BEX.DOM |
| Commons — market statistics for all accessible liquidity pools | Snapshot | 233.26.38.10:6010 | 233.26.38.138:6138 | |
| | Updates | 233.26.38.11:6011 | 233.26.38.139:6139 | BEX.Stats |

Market data topics

| Topic | Mode | UDP-channel A | UDP-channel B | The recovery topic identifier |
|--|----------|-------------------|--------------------|-------------------------------|
| BestPrices — top of book and trades for all accessible liquidity pools | Snapshot | 233.26.38.18:6018 | 233.26.38.146:6146 | |
| | Updates | 233.26.38.19:6019 | 233.26.38.147:6147 | BEX.TOB |
| Trades — trades matched on all accessible liquidity pools | Updates | 233.26.38.27:6027 | 233.26.38.155:6155 | BEX.Trades |
| CurrentPriceOfMarket — current price of market | Updates | 233.26.38.90:6090 | 233.26.38.218:6218 | IQ |