



## **Network connectivity**

System version 1.11

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## Revision history

### **Version 1.6.2 September 24, 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.

## Table of Contents

1. Trading gateways .....	4
1.1. Native protocol gateway .....	4
1.2. FIX gateway .....	4
1.3. Message retransmits .....	4
2. Market data topics .....	5
2.1. Native market data topics .....	5
2.2. FIX/FAST market data topics .....	5

# 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 .

Market data recovery — 194.247.144.5:7136 .

## 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*.



*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*.



*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