



Network connectivity

System version 1.7

Interface version 36

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Revision history

Version 1.11.0 30 November 2016

Addresses of the native protocol Instruments topics changed

Version 1.10.0 9 March 2016

1. Commons additional snapshot mode of native protocol is not broadcast any more
2. Addresses of native protocol Commons topics are changed
3. Address of native protocol recovery is changed

Version 1.9.0 14 January 2016

Addresses of the native protocol Instruments topics changed

Version 1.8.0 14 December 2015

1. Recovery of native protocol Commons is enabled
2. CurrentPriceOfMarket topic starts broadcasting in FIX/FAST

Version 1.7.0 10 November 2015

CurrentPriceOfMarket topic starts broadcasting in native protocol

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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 — test.nprts.ru:7001 .

1.2. FIX gateway

FIX gateways:

1. 194.247.145.35:7180 — FIX trading gateway
2. 194.247.145.35:7196 — 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*.

Topic	Mode	UDP-channel A	UDP-channel B	The recovery topic identifier
OrderBook — order books updates for all accessible liquidity pools	Snapshot	239.16.0.40:6000	239.16.0.140:6000	
	Updates	239.16.0.41:6000	239.16.0.141:6000	BEX.DOM
Commons — market statistics for all accessible liquidity pools	Snapshot	239.16.0.82:6010	239.16.0.182:6010	
	Updates	239.16.0.83:6010	239.16.0.183:6010	BEX.Stats
BestPrices — top of book and trades for all accessible liquidity pools	Snapshot	239.16.0.74:6010	239.16.0.174:6010	
	Updates	239.16.0.75:6010	239.16.0.175:6010	BEX.TOB
Trades — trades matched on all accessible liquidity pools	Updates	239.16.0.95:6020	239.16.0.195:6020	BEX.Trades
CurrentPriceOfMarket — current price of market	Updates	239.16.0.88:6088	239.16.0.216:6216	IQ
Instruments — instruments status updates for all accessible liquidity pools	Snapshot	239.16.0.36:6036	239.16.0.164:6164	
	Updates	239.16.0.37:6037	239.16.0.165:6165	

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 — 194.247.145.35:7136 .

Topic	Mode	UDP-channel A	UDP-channel B	The recovery topic identifier
OrderBook — order books updates for all accessible liquidity pools	Snapshot	239.16.0.42:6000	239.16.0.142:6000	
	Updates	239.16.0.43:6000	239.16.0.143:6000	BEX.DOM
Commons — market statistics for all accessible liquidity pools	Snapshot	239.16.0.66:6010	239.16.0.166:6010	
	Updates	239.16.0.67:6010	239.16.0.167:6010	BEX.Stats
BestPrices — top of book and trades for all accessible liquidity pools	Snapshot	239.16.0.76:6010	239.16.0.176:6010	
	Updates	239.16.0.77:6010	239.16.0.177:6010	BEX.TOB
Trades — trades matched on all accessible liquidity pools	Updates	239.16.0.97:6020	239.16.0.197:6020	BEX.Trades
CurrentPriceOfMarket — current price of market	Updates	239.16.0.90:6090	239.16.0.218:6218	IQ