

# Elasticia Connectivity and Technical Price List

Valid from May 1, 2023.

## Overview

This document describes the technical services offered by NGM for the Elastica trading system. All prices listed in this document are in SEK, excluding VAT.

1. Network Connectivity.....	2
2. Trading Access .....	3
3. Elastica Trading Client .....	4
4. Elastica Trading Client Order Management (TCOMS).....	4
5. Market Data Access.....	5
6. Back Office Data Access.....	5
7. HTTP Market Data API Access (MDAPI) .....	6
8. Test Access .....	7
9. Additional services .....	8

## 1. Network Connectivity

As a member, service provider, independent software vendor or market data vendor, you have the following options to connect to NGM.



### Internet/VPN

Clients can use Internet over VPN for both production and testing environments.

Plain Internet is also available for the Elasticia Trading Client.



### Dedicated network

Clients can connect using a dedicated network to our infrastructure. We work with major network providers such as BT Radianz, Colt, Fixnetix, QuantHouse, ICE Data Services, TNS and Verizon (VFN).



### Data centre cross-connect

Clients who already have (or would like to order) space in the data centre can cross-connect to us directly.

The following fees are what NGM will charge, separately from the network provider or colocation provider.<sup>1</sup>

Network Connectivity in production	Installation	Price (monthly)	Price backup (monthly)
Plain Internet, up to 15 Mbps <sup>2</sup>	4,150	2,900	1,000
Internet/VPN, up to 15 Mbps <sup>3</sup>	8,300	4,100	1,500
Dedicated network, any bandwidth	6,900	1,600	1,600
Data centre cross-connect	24 000 <sup>4</sup>	5,700	N/A

<sup>1</sup> Please refer to the document *Network Connectivity in Elasticia* for information on bandwidth requirements and the different network connectivity options. The costs for “Dedicated network” and “Cross-connect in data center” given above are the costs that NGM will charge, separately from the network provider and the colocation provider.

<sup>2</sup> Additional 15 Mbps capacity is the same price as initial cost. In the production environment, plain internet is only available for Elasticia Trading Client accounts.

<sup>3</sup> Additional 15 Mbps capacity is the same price as initial cost.

<sup>4</sup> Installation fee covers test network installation as well.

## 2. Trading Access

Access to trading in Elasticia is available through:

- Trade Account, protocol access
- Quote Account, protocol access
- Elasticia Trading Client

### Trade/Quote Account, protocol access

For communication with the Elasticia Trading System, the Elasticia FIX Protocol is used. Participants can develop their own access to Elasticia, or they can utilize products from independent software providers. All systems that are to access the Elasticia Trading System must first have been tested for conformity and approved by NGM.

Full market data is included for Trade and Quote accounts. Trading Accounts are differentiated depending on the client type. Client types:

- Trading clients – Trade Account
- Market makers – Quote Account

Trade Account	Installation	Price (monthly)
Trade Account <sup>5</sup>	13,500	6,700 <sup>6</sup>
Per additional 100 ops		3,300
Inactive Backup Account	13,500	1,500

Quote Account	Installation	Price (monthly)
Quote Account <sup>7</sup>	16,000	7,600 <sup>8</sup>
<= 250 qps		10,000
<= 500 qps		13,300
Per additional 500 qps		+4,500
Inactive Backup Account	16,000	1,500

<sup>5</sup> Trading Account – The account consists of one Private Service (Order Entry) plus one Public Service (Market Data) access.

<sup>6</sup> Standard Trade Account includes <= 100 ops.

<sup>7</sup> Quote Account - Account for Market Makers with the possibility to use the Quote Validation Functionality. The account consists of one Private Service (Order Entry) plus one Public Service (Market Data) access.

<sup>8</sup> Standard Quote Account includes <= 50 qps.

## 3. Elastica Trading Client

The Elastica Trading Client is a product to facilitate for easy and cheap access for participants with a limited amount of trading in the market. The trading client offers basic functionality.

<b>Elastica Trading Client</b>	<b>Installation</b>	<b>Price (monthly)</b>
Active client	3,500	2,100
Inactive Backup client	3,500	600
Viewer client	3,500	1,100

## 4. Elastica Trading Client Order Management (TCOMS)

TCOMS is the Elastica Trading Client with additional features to enable automatic quoting and order management.

<b>TCOMS</b>	<b>Installation</b>	<b>Price (monthly)</b>
Active client	5,700	7,900
Inactive Backup client	5,700	600
Viewer client	5,700	1,100

## 5. Market Data Access

Market Data is the public data provided by the Elastica Trading System. This includes orders for all levels of the orderbooks as well as instrument data and corporate actions. The same data that is provided to the Market Data account is included in the Trading and Quoting accounts.

Market Data Account	Installation	Price (monthly)
Market Data Account <sup>9</sup>	13,500	5,100
Inactive Backup Account	13,500	1,300

## 6. Back Office Data Access

A Back Office Data provider connects to the trader groups of its customers. Included in the Back Office Data are the trader groups' private orders and trades. If market or reference data is needed, please see **Market Data Access**.

Back Office Data Account	Installation	Price (monthly)
Back Office Data Account	13,500	2,100
Inactive Backup Account	13,500	1,300

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<sup>9</sup> The Market Data account consists of one Public Service (Market Data) access.

## 7. HTTP Market Data API Access (MDAPI)

MDAPI is a HTTP interface for fetching of data from Elasticia:

- Instrument detail data
- Level 1 market data
- Closing prices
- Trades
- Customized data provisioning

Support for special (not standard) formats of the data provisioned is evaluated on request. Development of custom service is evaluated upon request.

MDAPI	Installation	Price (monthly)
Per Standard Service	3,900	4,000
Ticker Service for Listed Companies <sup>10</sup>	1,100	1,100

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<sup>10</sup> The ticker service is limited to the listed company's own securities and has a maximum polling rate of 5 updates per minute.

## 8. Test Access

The following fees are what NGM will charge, separately from the network provider or colocation provider.<sup>11</sup>

Network Connectivity – Test environment	Installation	Price (monthly)
Plain Internet	4,000	1,900
Internet/VPN	7,800	2,900
Dedicated network	6,900	1,000
Data centre cross-connect	0 <sup>12</sup>	3,500

A Test Account enables the user to test trading, quoting and market data in the Elasticia test environment.

Test Account	Installation	Price (monthly)
Test Account (bundles of 5 accounts)	1,200	1,400 <sup>13</sup>
Elasticia Trading Client	1,200	300
TCOMS	1,200	300
MDAPI	1,200	1,500

<sup>11</sup> Please refer to the document *Network Connectivity in Elasticia* for information on bandwidth requirements and the different network connectivity options. The costs for “Dedicated network” and “Cross-connect in data center” given above are the costs that NGM will charge, separately from the network provider and the colocation provider.

<sup>12</sup> Test network installation is included in the production network installation.

<sup>13</sup> Per bundle of test accounts. Any combination of trade account, quote account, market data account and back office account.

## 9. Additional services

### Proximity Hosting

NGM offers the possibility to host equipment in the same collocations as NGM. Clients can contact the collocation providers themselves and arrange for proximity or NGM can host client equipment, including basic maintenance (power cycling of equipment) and connectivity to NGM market servers. Contact NGM Support if you are interested in this option.

### Special Services

NGM can help clients with special requests, such as setting up special solutions for provisioning of data. You are welcome to contact us with your requests, and we will see if we are able to provide you with a solution.

### Off hours support rates

Basic support during the NGM market opening hours is included in the rates specified for the different services above. NGM can also assist customers outside of business hours, including weekends, but then an hourly fee is charged. Off hours support should always be booked in advance with the NGM Support.

Service	Rate
Support service, off hours	2,700 SEK /commenced hour

Unless the service commences immediately after normal support hours, the minimum charge for off hours support is 2 hours (5,400 SEK).

### Contact Information

NGM Support

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