Nordic Growth Market

Börse Stuttgart Group

Elasticia Access and Technical Services

Products and Services

The Elasticia Technical Services offered by NGM are:

- Connectivity, network

- Trading Access

- Market Data Access

- Back Office Access

- HTTP Market Data API Access

- Proximity

- Special services

General Information on the Fees

All prices listed in this document are in SEK, excluding VAT.

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Connectivity, network

Please refer to the document *Network Connectivity in Elasticia* for information on bandwidth requirements and the different network connectivity options. Please note that for "Dedicated network" you must consult your network provider(s) for the cost and for "Cross-connect in data center" you must consult the colocation provider(s) for the cost. The costs for "Dedicated network" and "Cross-connect in data center" given below are the costs that NGM will charge, separately from the network provider and the collocation provider.

PRODUCTION NETWORK

	Installation	Monthly, active	Monthly, inactive/cold backup
Plain Internet[1] **Primary/Secondary** **Up to 15 mbps**	4,150	2,700	800
Internet/VPN **Primary/Secondary** **Up to 15 mbps**	8,300	3,900	1,400
`Dedicated network **Any bandwidth**	6,900	1,500	1,500
Cross-connect in data center	24,000[2]	5,500	N/A

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[1] In the production environment, plain internet is only available for Elasticia Trading Client accounts.

[2] Installation fee covers test network installation as well.

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	Installation	Monthly
Plain Internet	4,000	1,800
Internet/VPN	7,800	2,800
Dedicated network	6,900	900
Cross-connect in data center	0[3]	3,400

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[3] Included in installation fee for production

Trading Access

Access to trading in Elasticia is available through:

- Trade Account, protocol access
- Quote Account, protocol access
- Extra Private and Public Service accesses
- 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

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TRADE ACCOUNT, PRODUCTION

	Installation	Monthly
Trade Account[4]	13,500	
<= 100 ops		6,500
per additional 100 ops		+3,200
Trade Account	13,500	
Inactive Backup		1,400

TRADE ACCOUNT, TEST

	Installation	Monthly
Trade Account	1,200	1,400

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[4] Trading Account – The account consist of one Private Service plus one Public Service (Market Data) access.

QUOTE ACCOUNT, PRODUCTION

	Installation	Monthly
Quote Account[5]	16,000	
<= 50 qps		7,300
<= 250 qps		9,700
<= 500 qps		12,900
per additional 500 qps		+4,300
Quote Account **Inactive Backup**	16,000	1,400

QUOTE ACCOUNT, TEST

	Installation	Monthly
Quote Account	1,200	1,400

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[5] Quote Account - Account for Market Makers with the possibility to use the Quote Validation Functionality. The account consist of one Private Service plus one Public Service access.

Elasticia Trading Client

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

ELASTICIA TRADING CLIENT, PRODUCTION

	Installation	Monthly
Trading Client Active	3,500	2,000
Trading Client Inactive (Backup)	3,500	500
Trading Client Viewer	3,500	1,000

ELASTICIA TRADING CLIENT, TEST

	Installation	Monthly
Trading Client	1,200	200

Elasticia Trading Client Order Management (TCOMS)

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

	Installation	Monthly
TCOMS **Active**	5,700	7,700
TCOMS **Inactive (Backup)**	5,700	500
TCOMS **Viewer**	5,700	1,000

	Installation	Monthly
TCOMS	1,200	200

Market Data Access

Market Data is the public data provided by the Elasticia 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 ACCOUNTS, PRODUCTION

	Installation	Monthly
Market Data[6] **Active**	13,500	4,900
Market Data[4] **Inactive Backup**	13,500	1,200

MARKET DATA ACCOUNTS, TEST

	Installation	Monthly
Market Data	1,200	1,400

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[6] The Market Data account consists of one Public Service access.

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 public data is needed, please see **Market Data Access** for pricing of market data.

BACK OFFICE DATA ACCOUNT, PRODUCTION

	Installation	Monthly
Back Office Data	13,500	2,000
Back Office Data **Inactive Backup**	13,500	1,200

BACK OFFICE DATA ACCOUNT, TEST

	Installation	Monthly
Back Office Data	1,200	1,400

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, PRODUCTION

	Installation	Monthly
Per Standard Service	3,900	3,900
Ticker Service for Listed Companies[7]	1,100	1,100
Custom Service	Evaluated upon request	Evaluated upon request

MDAPI, TEST

	Installation	Monthly
Per Standard Service	1,200	1,400
Custom Service	Evaluated upon request	Evaluated upon request

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[7] The ticker service is limited to the listed company's own securities and has a maximum polling rate of 5 updates per minute.

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

+46 (0)8 566 390 60

support@ngm.se