

# IT – Verification of failover functionality (Genium INET and NDTs) – UPDATE

## Introduction

On Saturday **September 14<sup>th</sup>, 2024**, Nasdaq Nordic will perform verification tests of the site failover functionality in the **Genium INET Production** and **Nasdaq Equity Derivatives Trading Production (NDTS)** environments. The systems will be available for Nasdaq Exchange and Clearing members for login and standard reference data and business queries. No other type of business functionality will be enabled.

Members are recommended to take advantage of this opportunity to test their connectivity and ability to failover to the Nasdaq site B (PORT) datacenter. Please note that only participants that have connectivity access to site B (PORT) can participate in this test, i.e., Co-Lo customers with access only to site A (VASBY) can't participate.

The failover verification test will be available for the members in the following markets:

### Nasdaq Nordic Genium INET system:

- Nasdaq Stockholm AB Fixed Income Derivatives markets
- Nasdaq Stockholm AB Fixed Income markets
- Nasdaq Copenhagen A/S Fixed Income markets
- Nasdaq Helsinki Ltd. Fixed Income markets
- Nasdaq Iceland hf. Fixed Income markets
- Nasdaq Tallinn AS Fixed Income markets
- Nasdaq Riga AS Fixed Income markets
- AB Nasdaq Vilnius Fixed Income markets
- Nasdaq Oslo ASA Commodity markets
- Nasdaq Clearing AB, Equity, Fixed Income and Commodity Derivatives clearing

### Nasdaq Equity Derivatives Trading system (NDTS):

- Nasdaq Stockholm AB Derivatives markets (Equity and Index Derivatives on Swedish, Danish, Finnish, and Norwegian markets)

Please note that this failover test applies to **Genium INET** and **NDTS only**, i.e., INET Nordic (Cash Equity Trading) and GCF (Genium Consolidated Feed) are excluded from this test.

## Time plan

Time (CEST)	Details	Expected member action
10:00-11:00	<p><b>Genium INET and NDTS Production systems available for login in the normal configuration.</b></p> <p>The Genium INET and NDTS systems will be available for login in normal configuration with site A being the primary site, allowing OMnet, ITCH and OUCH connectivity via both site A and site B, and FIX connectivity via site A (Genium INET) or via site A or site B (NDTS).</p> <p>The markets will be in closed state, with login allowed and business queries enabled. Markets will remain closed throughout the test.</p>	<p><b>Login to your primary address on site A (VASBY).</b></p>
11:00-13:00	<p><b>A controlled failover from site A to site B will be performed, simulating a complete loss of Genium INET and NDTS on site A. All accessibility to Genium INET and NDTS will hence be disabled <i>until</i> the failover to site B has been completed.</b></p> <p>Please note that network connectivity still remains active to site A datacenter to prevent impact for customers connecting to other Nasdaq services located at site A. The failover activities are estimated to be completed at 13:00 CEST <i>at latest</i>, from which time login will be available to site B only.</p>	<p><b>Prepare the redirection of your connections to site B (PORT).</b></p> <p>No logins allowed before the failover has been completed.</p>
13:00-14:00	<p><b>Failover completed, and member login enabled to site B.</b></p> <p>Login will be available to site B only. Site A unavailable.</p>	<p><b>Login to your failover address on site B (PORT).</b></p>
14:00	<p><b>Test completed; Genium INET and NDTS system shutdown.</b></p> <p>Test completed, the Genium INET and NDTS Production systems will be shut down and configuration restored to normal weekend operation.</p>	<p><b>Restore your connections to normal configuration.</b></p> <p><b>Report your results</b> using separate <i>Registration and Report form</i>, or via <i>Member Portal</i>. See below <i>Registration and Reporting</i> section for further information.</p>

## Failback to site A (VASBY)

**Genium INET:** Members that would like to test failback to site A (VASBY) have possibility to do so on Sunday September 15<sup>th</sup> when the system will be available according to ordinary weekend schedule, or on Monday September 16<sup>th</sup> from 05:00 CEST.

**NDTS:** Members can test failback to site A (VASBY) on Monday September 16<sup>th</sup> from 03:30 CEST when NDTS will be back to normal operations.

Nasdaq Technical Support will be available for support queries on Monday September 16<sup>th</sup> from 07:00 CEST via [technicalsupport@nasdaq.com](mailto:technicalsupport@nasdaq.com) or +46 8 405 6750.

## Communication plan

IT Information messages (IT-Notices) and direct e-mails will be sent out to all registered members if there are any deviations from the planned timings.

Members are advised to ensure subscription to the *IT Information – Equity Derivatives Trading*, *IT Information – Equity Derivatives Clearing*, *IT Information – Fixed Income* or *IT Information – Commodities* messages on the following site:

<https://subscribe.news.eu.nasdaq.com/news/subscribe>

## Nasdaq Front-Ends

- **Q-Port Clearing Workstation**  
Available for login and query-type transactions.
- **CMS web**  
Available for login.
- **Trading Workstation**  
Available for login. No transactions are available.  
All query-type transactions are available, although replies will reflect that September 14<sup>th</sup> is not a business day.
- **Clearing Workstation 1 (CW1)**  
Not available by default. CW1 requires server registry changes in order to enable login on a non-business day.
- **Nasdaq Nordic Trader**  
Not available.

## Protocol specific details

- **OMnet (Genium INET):**  
Login enabled. No transactions are available.  
Messages supported: BI9.  
Queries supported: All query-type transactions are available, although replies will reflect that September 14<sup>th</sup> is not a business day.
- **OUCH (NDTS):**  
Login enabled.  
Messages supported: Y, y, z.
- **FIX (Genium INET, NDTS):**  
Login enabled.  
Messages supported: Administrative messages.  
*For verification of Genium INET FIX IP and port details for B-site, please contact*

[MAC@nasdaq.com](mailto:MAC@nasdaq.com).

- **ITCH, GLIMPSE (Genium INET, NDTS):**  
Multicast groups and Re-Request available. Login enabled for GLIMPSE and Re-request TCP.  
Messages supported (Genium INET): T, S, R, L, M, O, A (GTD orders)  
Messages supported (NDTS): S, M.
- **AMD (Genium INET, NDTS):**  
Not available.

Please note that there will be a unique session ID for SoupTCP and MoldUDP for Saturday September 14<sup>th</sup>.

For further information on Connectivity and Protocol Specifications, please see: <https://www.nasdaq.com/solutions/european-market-connectivity>, <https://www.nasdaq.com/solutions/european-market-services> and [Member Portal](#).

## Registration and Reporting

Members shall register for the test by sending the *Registration and Report form* (attached to this IT-Notice) to [technicalrelations@nasdaq.com](mailto:technicalrelations@nasdaq.com) no later than **September 11<sup>th</sup>, 2024**. This will ensure proper contact information is collected that will be used during the failover test.

After the test has been completed, we kindly ask members to report their results using the same *Registration and Report form*. Those members that have access to the Nasdaq Member Portal as *Member Administrator, Authorized Requestor IT or Compliance*, have possibility to send in this report via the [Member Portal](#) instead.

The result of the test, including member participation, will be reported to the Financial Supervisory Authorities in the Nordics.

Please ensure this message is forwarded to your organization's Compliance Officer.

## Support

Genium INET and NDTs Technical Support will be available via the normal support channel during the failover test on Saturday September 14<sup>th</sup>, 10:00-14:00 CEST.

Thereafter, Genium INET and NDTs Technical Support will be available for support queries on Monday September 16<sup>th</sup> from 07:00 CEST.

Tel: +46 8 405 6750

E-mail: [technicalsupport@nasdaq.com](mailto:technicalsupport@nasdaq.com)

**For further information, please contact:**

**Technical Relations**

[technicalrelations@nasdaq.com](mailto:technicalrelations@nasdaq.com)