

CONTENTS

November 9 2009 #34

	Page
INET Nordic migration	2
INET Nordic migration tests	2
INET Nordic source in GENIUM Consolidated Feed production environment	2
Differences in prognosticated peak loads between SAXESS and the INET Nordic solution	3
Descriptions of the new INET Nordic reference data files	3
File Delivery System (FDS) instructions	3
GCF5 and GCF production account setup in preparation for launch of INET Nordic	4
NASDAQ OMX Nordic Markets update - Index	5
NASDAQ OMX to change ISIN on existing index on November 16th, 2009	5
NASDAQ OMX launches OMRX All Index and harmonizes name standard for Swedish fixed income indexes	5
NASDAQ OMX to disseminate new indexes for Swedish Housing market in GCF	6
NASDAQ OMX Nordic Markets update - Fixed Income	6
Clearing information from Norwegian Bond market to be included in GENIUM Consolidated Feed	6
NASDAQ OMX will enable dissemination of cash flows for Danish floating rate mortgage bonds	6
NASDAQ OMX Nordic Markets update - Derivatives and Commodities	7
NASDAQ OMX Commodities launches CER Spot Contract	7
NASDAQ OMX Nordic Markets update - Equities	7
Full CCP Launch for Helsinki equity market on November 16th	7
Release Schedule	8
2009	8
2010	8
Test Environments	9
GENIUM Consolidated Feed	9
GENIUM Consolidated Feed Connectivity	9

INET Nordic migration

INET Nordic migration tests

As previously announced NASDAQ OMX will migrate trading of equities and related instruments as well as the Icelandic Fixed Income market from the SAXESS trading system to the INET Nordic trading solution. The migration will be performed in two steps starting with the Baltic and Icelandic Exchanges on November 30th followed by the Stockholm, Helsinki and Copenhagen markets on December 7th. The first step towards a successful migration was the launch of GCF2.1 on October 26th, introducing the changes necessary to accommodate the change of equity trading market data source.

INET tests in GCF4

The GCF4 test environment is available for testing for customers wanting to test GCF with INET as a source in parallel with the launch rehearsal activities in GCF5. User and password are the same as production with the added TEST4_ prefix.

INET Nordic launch rehearsal

November 8th – 13th there is an INET Nordic launch rehearsal in the GCF5 test environment. The schedule during rehearsal is according to the following documentation:

- [INET Nordic Launch Rehearsal](#)



Introduced changes

The NASDAQ OMX approach during the planning of migration has been to minimize GCF customer impact due to the change of source for market data, but there will be changes as a consequence of changes to the NASDAQ OMX Nordic Market Model.

The new market model is described in the documentation available at the INET Nordic migration website :

- [NASDAQ OMX market model](#)



- [NASDAQ OMX Iceland market model for fixed income](#)



A document outlining the changes in market data distribution via GENIUM Consolidate Feed are described in the INET Nordic GCF2.1 Migration Guideline document.

- [NASDAQ OMX GCF 2.1 INET migration document](#)



Reserve market wide test (MWT) November 14th

On November 14th a reserve market wide test to confirm network and connectivity as well as customer readiness will be held. Details of the test schedule are available at the [INET Nordic migration website](#).

The test activities are focused on exchange member actions, where the expectation of current GCF customer participation is to verify that you can establish a session to the test system as well as receive the data sent in the GENIUM Consolidated Feed. The user and password for the GCF5 test environment is in line with normal test environment standard, i.e. current production user/password with the TEST5_ prefix.

The linked documents can also be found on the [NASDAQ OMX Nordic member site](#).

INET Nordic source in GENIUM Consolidated Feed production environment

The INET and ACT sources in GENIUM Consolidated feed production system will have the same setup as the INET pre-prod source in test environment GCF5. The sources are since October 26th, 2009 available in GCF production, but without connected markets. In the INET Nordic setup INET is the source for reference data as well as real time market data from the trading engine of the solution (auto matched trades).

The ACT source is the NASDAQ OMX Nordic Trade Reporting Service equities, and thus the source for all reported trades (on and off exchange) at NASDAQ OMX Nordic. INET is in some documentation also referred to as ODIN and ACT as VILE.

Source	GCF production ID	Description
INET	8	INET Trading System
ACT	9	Nordic Trade Reporting Service equities

Differences in prognosticated peak loads between SAXESS and the INET Nordic solution

The INET Nordic trading system for equities and related instruments will not be throttled, or managed in any other way regarding market data via ITCH from the system. In the current SAXESS solution the market data flow from XTP has been managed, guaranteeing a maximum load 45000Bz per second.

To safeguard for future possible changes in market data load via GCF, NASDAQ OMX has prepared the introduction of a conflation model to be able to limit the number of Orderbook (OBk) messages sent out for an instrument under heavy load. The model only targets the Orderbook messages for the order book with high load and during the peak only. There is no conflation of any other messages or the Orderbook message for instruments with normal load. Please see: [GENIUM Consolidated Feed Conflation model document](#) for further details.

Due to architectural limitations in the current market data platform, an introduction of the conflation model will limit the depth of market by level to a maximum of ten levels. NASDAQ OMX does not plan to introduce the conflation model unless required by market behavior, and will work for a solution to the current limitation of the platform.

Descriptions of the new INET Nordic reference data files

Descriptions of the new INET reference data files (all in TIP format) have been added to the [GCF 2.1.0 TIP output file format document](#) located on [NASDAQ OMX Trader web](#). The reference data files contain reference data for Nordic, Baltic, Icelandic Bonds and Indexes. They are created at ~ 07:00 CET and please contact: DataProducts@nasdaqomx.com regarding subscription.

File Delivery System (FDS) instructions

Test areas

Since the testing requirements keep increasing along with the INET we are providing the GCF test system specific FDS test areas in order to be able to provide the same file types from several GCF test systems. This means that all the files created by a GCF test system will be forwarded to the FDS test area specific for this GCF system. This concerns all the basic data (including INET files), end-of-day, LMI and PTA files.

User account information

Also related to preparations for INET Nordic launch, for those customers who have requested access to the INET related files the following policy will be followed. All changes are valid from November 8th, 2009.

- Customers without FDS account
 - New accounts will be created in both FDS test and production. If a customer account already exists in either test- or production environment, only the missing account will be created, and the new account will be created with the same username and password as the existing one.
 - The customer test account covers all the FDS test areas. The INET related test files are available on GCF5 area.
 - File request: `http://<username>:<password>@fdstest01.nasdaqomxnordic.com/gcf5/<yyyymmdd>/<filename>`
 - File listing: `http://<username>:<password>@fdstest01.nasdaqomxnordic.com/gcf5/<yyyymmdd>/`
 - Information regarding production as well as test environment accounts will be distributed by NASDAQ OMX Nordic Subscriber Services prior to the November 8th migration test.

- **Customers with existing account**

- Customers with existing FDS accounts in test and/or production will get the subscriptions for INET based files added to their accounts based on request.

The full **[New File Delivery System \(FDS\) instructions document](#)** can be found on the **[Market Data Reports page on NASDAQOMXTrader.com](#)**

GCF5 and GCF production account setup in preparation for launch of INET Nordic

In preparation for INET Nordic launch the GCF test environment used for INET related testing will be aligned with the account standard of all GCF test environments. The basis for the test accounts will be the GCF production accounts with a prefix identifying the test environment for both user and password.

- **Changes for customers that previously have not connected to GCF production**

- The current user will be registered in the production environment with a new password.

- On November 8th the user and password will be copied from GCF production to GCF5, the environment where INET testing so far has been conducted, and the prefix TEST5_ will be added to both user and password to identify the test environment.

- Information regarding production as well as test environment accounts will be distributed by NASDAQ OMX Nordic Subscriber Services prior to the November 8th migration test.

- **Current customers with accounts in GCF production environment**

- The current production account and subscriptions will be copied to the GCF5 test environment on November 8th with the usual standard user and password prefix TEST5_

- Temporary accounts with copies of current production subscription registered in GCF5 during INET testing will be replaced with the new copy of the current GCF production account aligned with the naming standard as described above.

NASDAQ OMX Nordic Markets update - Index

NASDAQ OMX to change ISIN on existing index on November 16th, 2009

On November 16th, 2009 NASDAQ OMX will change the ISIN on an existing index, the OMRX Total Market Index. The index is calculated by NASDAQ OMX. This is the only change made to the index.

Code	Name	Source ID	GCF ID	current ISIN	ISIN from Nov 16th	Source
OMRXTOT	OMRX Total Market Index	682	2247	SE0001356626	SE0001356726	ICS_FI

NASDAQ OMX launches OMRX All Index and harmonizes name standard for Swedish fixed income indexes

On November 19th, 2009 NASDAQ OMX will rebrand 15 fixed income indexes to OMRX name standard. A harmonized name standard will satisfy the requirements of customers and facilitate the comparability of NASDAQ OMX fixed income indexes.

NASDAQ OMX will also begin disseminating a new fixed income index, OMRX All Index. The new index is a complement to the existing OMRX index family and consists of treasury bonds, treasury bills and mortgage bonds. OMRX ALL index will have a base date of November 18th, 2009 and a base value of 1000. OMRX All index will be disseminated every 60 seconds in GCF. Please note that new indexes launched in GCF will have not TIP exchange ID (x) since this was previously generated when SAXESS was set as index source. The exchange code will be available in the TIP field: MicCode(Mic).

NEW INDEX: OMRX All Index					
Code	Name	Source ID	GCF ID	ISIN	Source
OMRXALL	OMRX All Index	2414	9398	SE0003077338	ICS_FI (GCF-Id: 12)

RENAMING OF FIXED INCOME INDEXES						
Old name	Old code	New code	New name	Source ID	GCF ID	ISIN
Stat 1-3	STAT13YRS	OMRXTBOND13	OMRX Treasury bond 1-3 y Index	59	435	SE0002158949
Stat 3-5	STAT35YRS	OMRXTBOND35	OMRX Treasury bond 3-5 y Index	61	436	SE0002158931
Stat 5-	STAT5YRS	OMRXTBOND5	OMRX Treasury bond 5- y Index	62	437	SE0002158923
Övriga 1-3	OTHER13YRS	OMRXMORT13	OMRX Mortgage Bond 1-3 y Index	64	439	SE0002158915
Övriga 3-5	OTHER35YRS	OMRXMORT35	OMRX Mortgage Bond 3-5 y Index	65	440	SE0002158907
Övriga 5-	OTHER5YRS	OMRXMORT5	OMRX Mortgage Bond 5- y Index	66	441	SE0002158899
Övriga totalt	OTHERTOT	OMRXMORTALL	OMRX Mortgage Bond All Index	67	442	SE0002158881
Alla 1-3	ALLA13YRS	OMRXBOND13	OMRX Bond All 1-3 y Index	58	434	SE0002158873
Alla 3-5	ALLA35YRS	OMRXBOND35	OMRX Bond All 3-5 y Index	57	433	SE0002158865
Alla 5-	ALLA5YRS	OMRXBOND5	OMRX Bond All 5- y Index	18	419	SE0002158857
Alla total	ALLATOT	OMRXBONDALL	OMRX Bond All Index	19	420	SE0002158840
SSV 30	SSV30	OMRXTBILL30	OMRX Treasury Bill 30 day Index	21	422	SE0002158832
SSV 60	SSV60	OMRXTBILL60	OMRX Treasury Bill 60 day Index	22	423	SE0002158824
SSV 90	SSV90	OMRXTBILL90	OMRX Treasury Bill 90 day Index	23	424	SE0002158816
SSV 180	SSV180	OMRXTBILL180	OMRX Treasury Bill 180 day Index	26	427	SE0002158808

NASDAQ OMX to disseminate new indexes for Swedish Housing market in GCF

On November 19th, 2009 NASDAQ OMX will begin disseminating 3 new indexes for Swedish Housing market. The indexes will be available via GENIUM Consolidated Feed.

The indexes are based on the Swedish Housing Market. The indexes are co-branded Nasdaq OMX Valueguard. The indexes are based on a statistical model which compensates for the fact that different types of flats are sold during the same period. The purpose of the index is to reflect the underlying price trend. The index values are calculated once every month and will then be disseminated through GCF. The index values will be disseminated once every month in GCF and will be included in existing Nordic index products. Base Date is 2005-02-10 and Base Value is 100. Please note that new indexes launched in GCF will have not TIP exchange ID (x) since this was previously generated when SAXESS was set as index source. No index member data will be available for the indexes.

Code	Name	Source ID	GCF ID	ISIN	Source
HOXFLATSTO	NASDAQ OMX Valueguard Housing Index Flats Stockholm	2411	9388	SE0003077577	ICS
HOXFLATGBG	NASDAQ OMX Valueguard Housing Index Flats Gothenburg	2412	9390	SE0003077585	ICS
HOXFLATMLM	NASDAQ OMX Valueguard Housing Index Flats Malmo	2413	9392	SE0003077593	ICS

NASDAQ OMX Nordic Markets update - Fixed Income

Clearing information from Norwegian Bond market to be included in GENIUM Consolidated Feed

On November 23rd, 2009 the market Norwegian Bond will be added to derivatives products in GENIUM Consolidated Feed. The market contains settlement price data for Norwegian FRA instruments.

Market name	Source	GCF Prod ID	GCF Prod Source ID
NORWEGIAN BOND	CLICK	110	001005

NASDAQ OMX will enable dissemination of cash flows for Danish floating rate mortgage bonds

Starting from December 1st, 2009 NASDAQ OMX will enable dissemination of cash flows for floating rate Danish mortgage bonds. Today, fixed rate bonds cash flows are distributed as part of the market disclosure requirement. The new floating rate bond cash flows will not be part of the disclosure agreement and will be provided by the mortgage institutes on voluntary basis.

There will be no change in the dissemination or format of existing fixed rate bond cash flows. The new floating rate bonds cash flow will follow the existing setup.

NASDAQ OMX Nordic Markets update - Derivatives and Commodities

NASDAQ OMX Commodities launches CER Spot Contract

On November 20th, 2009, NASDAQ OMX Commodities will launch a spot contract for trading in Certified Emission Reductions (CER). The contract will follow the conventions of the similar EUA Spot contract. The ticker code will be CER<DDMM-YY>. The contract will be on Nordpool market: *European Union Allowances*.

For further information, please refer to:

www.nordpool.com

<http://www.nordpool.com/en/asa/Quotes-and-market-information/Exchange-information/2009/no-9009-NASDAQ-OMX-Commoditieslaunches-CER-spot-contract/>

New Russian index derivatives market : USD INDEX on November 23rd

On November 23rd, 2009 a new USD INDEX derivatives market will be added to NASDAQ OMX Derivatives Market in GENIUM Consolidated Feed Nordic Derivatives data products.

The instruments are based on the NASDAQ OMX Russia 15 Index (NORUX15). That index is based on the 15 largest and most traded Russian ADRs listed at LSE IOB. Derivatives on the index offer a tool for gaining exposure in the Russian market in the well-established NASDAQ OMX framework.

Market name	Source	GCF Prod ID	GCF Prod Source ID
USD INDEX	CLICK	372	001071

NASDAQ OMX Nordic Markets update - Equities

Full CCP Launch for Helsinki equity market on November 16th

NASDAQ OMX Nordic has decided to continue preparations for the Full Launch of Central Counterparty (CCP) services for its Helsinki market on November 16th, 2009. Existing orderbooks on the current Helsinki main equity submarket that will be included for mandatory CCP clearing will be moved to the existing OMX HEL Equities CCP submarket.

Submarket name	GCF2	GCF2 Source ID	GCF Prod ID	GCF Prod Source ID
OMX HEL Equities CCP	356	181	362	181

Release Schedule

2009

date	product/system
NOVEMBER	
November 16th	Helsinki CCP launch in SAXESS & GCF
Full launch of Helsinki CCP orderbooks. Test data available in GCF2 for GCF 2.1 and GCF5 for INET	
November 19th	New indexes for Swedish Housing market in GCF
NASDAQ OMX will begin disseminating 3 new indexes for Swedish Housing market.	
November 19th	NASDAQ OMX harmonizes name standard for Swedish fixed income indexes
NASDAQ OMX will rebrand 15 fixed income indexes to OMRX name standard.	
November 19th	NASDAQ OMX starts to disseminate a new fixed income index in GCF
NASDAQ OMX will begin disseminating a new fixed income index, OMRX All Index.	
November 20th	NASDAQ OMX Commodities launches CER Spot Contract
Commodities will launch a spot contract for trading in Certified Emission Reductions (CER)	
November 23rd	USD INDEX derivatives market for NASDAQ OMX Russia 15 Index instruments
A new USD INDEX market will be added to NASDAQ OMX Derivatives Market in GENIUM Consolidated Feed.	
November 23rd	Norwegian Bond market to be included in GENIUM Consolidated Feed
Norwegian Bond market will be added to derivatives products in GENIUM Consolidated Feed	
November 30th	INET Nordic – SAXESS replacement - Baltic and Icelandic markets
First equity markets and Icelandic Fixed Income markets will be migrated to INET from SAXESS	
DECEMBER	
December 7th	INET Nordic – SAXESS replacement - Nordic markets
The main date for INET migration from SAXESS (Copenhagen, Helsinki and Stockholm exchanges)	

2010

date	product/system
JANUARY	
January 1st	Change in Nordic Fixed Income Level 2 entitlement

Test Environments

GENIUM Consolidated Feed

GCF Environment			Source Systems			
	Ver.	TIP	Equities and related	Fixed Income	Derivatives	Index
GCF2	2.1.0	2.1.0	• SAXTST1	• SAXTST1	• CLICK Test • Nord Pool test	• ICS - production-like data • ICS_INDEX - test data • ICS_INDEX2 - test data
GCF3	2.1.0	2.1.0	• SAXESS Production	• SAXESS Production	• CLICK Production • Nord Pool prod	• ICS - production-like data • ICS_INDEX - prod.-like data • ICS_INDEX2 - prod.-like data • ICS_FI - production-like data
GCF4	2.1.0	2.1.0	• INET Test	• SAXTST4	• CLICK Test • Nord Pool prod	• ICS - INET PreProd test systems
GCF5	2.1.0	2.1.0	• INET PreProd	• SAXTST4	• CLICK Test • Nord Pool test	• ICS - INET PreProd test systems

- GCF5 – GCF 2.1 with INET Nordics pre production sources reflecting November 30th and December 7th environments
- Please notice that there are scheduled service windows in GCF2 and GCF3 test systems every Thursday between 09:00 and 12:00 CET. During the service windows the GCF test systems may be inaccessible.

GENIUM Consolidated Feed Connectivity

	SITE A - IP & Port		SITE B - IP & Port	
	IP Address	DDS Port	IP Address	DDS Port
GCF Production	192.176.3.132	29900	192.176.3.164	29900
GCF2	192.176.3.133	29100	192.176.3.165	29100
GCF3	192.176.3.133	29200	N/A (single site)	
GCF4	192.176.3.133	29300	N/A (single site)	
GCF5	192.176.3.133	29400	192.176.3.165	29400

Contact Information

For more information from NASDAQ OMX Global Data Products, please visit:

<http://nordic.nasdaqomxtrader.com/marketdata/>

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