

Market Model
NASDAQ OMX Nordic
after implementation of INET Nordic

NASDAQ OMX Nordic Market Model 1.1 January 21, 2010

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Definitions

The official definitions are in the NASDAQ OMX Nordic Member Rules (NMR).

Automatic Order Matching	The process in the Order Book by which sell and buy orders are matched automatically when the price, volume and other specifications for a given order correspond with order(s) previously entered in the Order Book.
BBO	Best Bid Offer of an Order Book.
Call	Auction process to facilitate price formation with two distinct parts: the first part is an order management phase and the second part is a matching process for all eligible orders. The matching process is called an uncross (as it removes all orders with crossing prices).
Call, closing	The Closing Call is the last Call of the day and produces the last auto matched trades of the order book (if there are eligible orders available for matching).
Call, opening	The Opening Call is the first Call of the day and produces the first auto matched trades of the order book (if there are eligible orders available for matching).
Imbalance order	The imbalance order is an order type that can be used in the auctions. It accepts the equilibrium price reached and fills the theoretical imbalance between the surplus and the deficit side.
Limit order	A Limit order stipulates a maximum purchase price or minimum selling price.
Market order	A market price order is an order to sell or buy a stock at the current market price.
Market Segment	Grouping of Order Books with common characteristics, for example Order Books traded in the same way or Order Books having the same opening hours.
On Exchange Trade	A trade that is automatically matched in the Order Book in accordance with the NASDAQ OMX NORDIC Member Rules or executed outside the Order Book but in accordance with the NASDAQ OMX NORDIC Member Rules and reported to the exchange as a manual trade.
On Open /Close orders	Specifically request on execution at the opening or closing price of the call. They can be specified as market priced or limit priced orders.
Pegged order	Pegged orders allow to price orders relative to the current market price for a security.
Post-Trading Session	The period during the Trading Session after the Trading hours, where orders can be cancelled and in some markets order updates with no trade impact can be conducted.
Pre-Close	Order Book state in the first phase of Closing Call, preceding the Uncross, when Order Management is allowed.

Pre-Open	Order Book state in the first phase of Opening Call, preceding the Uncross, when Order Management is allowed.
Price Limit Validation	Price limit check performed upon member request on entered orders. The last sale will be the source of comparison.
Reserve Order	In a Reserve order, a certain portion of the total volume of an order is not displayed in the Order Book (a.k.a. Iceberg order).
Round Lot	The minimum number of shares for an instrument which is used for certain statistics and calculations.
Time of agreement	The time that states when the trade was agreed. Can be used at registration of manual trades.
Time of Trade Execution	<p>The time at which an automatically matched trade is matched or a manual trade has been entered.</p> <p>For NASDAQ OMX Nordic, market time when the trade is confirmed is considered as the Time of Trade Execution.</p>
Time of Trade Publication	The time the trade was disseminated, i.e. when the trade was made public. For trades whose dissemination is not delayed, this is equal to the Time of Trade Execution.
Trading Hours	<p>Trading Hours for each market segment are found in Chapter 3 of this document.</p> <p>Trading Hours start from the Uncross of the opening call and include the Uncross of the closing call.</p>
Trading Session	The period during an exchange day which includes the Pre-Open session, Trading hours and the Post-Trading session. The Pre-Open session includes the Opening call up to, but not including, the Uncross.
Uncross	A call ends with an Uncross where price determination and share allocation together with order and trade information dissemination take place. Uncross lasts a short time, usually a fraction of a second.

1 Introduction

This document describes the functionalities for trading of equities and related on the regulated market segments and First North on NASDAQ OMX Nordic, including NASDAQ OMX Baltic¹. Therefore this document covers functionalities that apply to Copenhagen, Stockholm, Helsinki, Iceland, Tallinn, Riga and Vilnius. Fixed Income is not covered by this document.

Chapter 2 describes the market structure, while chapter 3 presents an overview of the trading phases. In chapter 4, the flow of the trading day is discussed. Chapter 5 outlines the registration of manual trades.

Chapter 6 presents the order types available and discusses the order modification. Order routing on NASDAQ OMX Nordic is described in Chapter 7.

While the document has been prepared on the basis of the best information available, the exchange accepts no liability for decisions taken, or systems work carried out by any party, based on this document. This document does not form part of the contractual documentation between exchange and its customers. Content of this document may also be subject to discussions and in some cases approval from relevant authorities.

While the NASDAQ OMX NORDIC Member Rules (NMR) is a legally binding document between Members and the respective exchanges, the purpose of this Market Model document is to provide additional guiding information for trading members.

Additional documents referenced in this documentation can be found at NASDAQ OMX Nordic's official website and also on the Member Extranet.

¹ For the purpose of this document NASDAQ OMX Nordic refers to, either each individually or all together, NASDAQ OMX Copenhagen A/S, NASDAQ OMX Helsinki Ltd, NASDAQ OMX Iceland hf. and NASDAQ OMX Stockholm AB. NASDAQ OMX Nordic may also include NASDAQ OMX Baltic that respectively refers to NASDAQ OMX Riga, NASDAQ OMX Tallinn and NASDAQ OMX Vilnius.

2 Overview of Market

2.1 Market Structure

The hierarchy of markets is based on different market segments which group securities into relevant collections for various trading, administrative and regulatory purposes. The following structure is applied within NASDAQ OMX Nordic market.

Market segments

NASDAQ OMX Nordic is divided into the following market segments:

- NASDAQ OMX Nordic Equities and Related
- Miscellaneous Markets

The following instrument types are supported by the market segments:²

	Equities and Related					Miscellaneous Markets				
	STO Equities	HEL Equities	CPH Equities	ICE Equities	Riga/Tallinn/Vilnius	First North STO	First North HEL	First North CPH	First North ICE	First North Riga/Tallinn/Vilnius
Shares	X	X	X	X	X	X	X	X	X	X *
Warrants and Certificates	X	X	X							
Equity Rights	X	X	X	X	X	X	X	X	X	
Investment Fund Units and ETFs	X	X	X	X	X					
Convertibles	X					X				
ETC	X									
Other Collective Investment Schemes			X	X						

² NASDAQ OMX Iceland will also trade fixed income products on the INET trading platform. There is a separate market model document created for this purpose.

2.2 Lists

While the list structure at NASDAQ OMX Nordic has no impact on the market model, it may be useful to be aware of the lists for the main equity market. Details regarding all available lists are provided at NASDAQ OMX Nordic website.

The Nordic List

The local stock exchanges will continue to be the listing venue and point of contact for already listed companies and future applicants to the Nordic list.

The list structure for NASDAQ OMX Nordic is based on the Nordic List concept:

1. Large Cap
2. Mid Cap
3. Small Cap

Companies on the Nordic list are presented in a common manner and divided into segments. Companies are presented first by market capitalization and then by industry sector, following the international Global Industry Classification Standard - GICS developed by Morgan Stanley Capital International Inc. and Standard & Poor's.

There are three market capitalization segments: Nordic Small Cap, Nordic Mid Cap and Nordic Large Cap.

Nordic Large Cap segment includes companies with a market capitalization equivalent to EUR 1 billion or more, Nordic Mid Cap segment includes companies with a market capitalization of EUR 150 million or more, but less than EUR 1 billion. Nordic Small Cap segment includes companies worth a market capitalization of less than EUR 150 million. All classes of the listed share in the company are included in the market capitalization calculation.

Multiple listed companies are placed in the same segment on all exchanges, based on the highest market capitalization for the company.

Other Lists

In addition to the Nordic List concept, there are additional lists for special circumstances like:

Stockholm:

1. When Issued
2. Xternal list for foreign companies

Helsinki:

1. Prelist
2. Other Securities

Copenhagen:

1. Investment Funds
2. Other collective Investment schemes

Baltic List

Structure of lists of securities traded on the Tallinn, Riga and Vilnius exchanges:

1. Baltic Main List
2. Baltic Secondary List

The Baltic Main List is a line-up of all blue-chip companies listed on the Tallinn, Riga and Vilnius stock exchanges. To be eligible for inclusion, a company must have 3 years of operating history, an established financial position, market cap of not less than EUR 4 million, with reporting according to the International Financial Reporting Standards, and a free float of 25% or worth at least EUR 10 million. The Baltic Secondary List comprises companies that do not meet quantitative admission requirements (free float, capitalization). The admission requirements are not as strict compared with those of the Baltic Main List.

2.3 Trading Rights

Trading rights are given to the following user categories:

1. Trading right is given to the members' exchange traders. All trading personnel must be authorized to trade. The authorization and the trading rights are according to special agreements on the financial market when applicable.
2. Direct Market Access (DMA)³ entitles a member to electronically and automatically route clients' orders directly to the trading system through the use of Internet connections or other technical connections between the trading member and the client.
3. Algorithmic trading⁴ entitles a member to trade through automated trading facilities in the form of placement, change, or cancellation of orders in the Order Book by using software, which automatically generates a large number of orders in response to specific pre-programmed factors. A special form of automated trading account (AUTD) can also be set up to handle automatic trading, that entitles to a discount according to the current price list in force. The difference between Automated trading right and AUTD account is that AUTD is to be used for purely automated trading, i.e. common execution algorithms are not eligible for this account. The definition of the eligible trading flow can be found from a separate Terms and Conditions document.

Trading rights are set on Exchange level for each member. This means that the exchange trader automatically can trade in all Order Books at the exchanges to which membership is established.

Notes:

- Although the orders can be entered/routed automatically to the trading system, there are always authorized personnel at the exchange member responsible for all orders.

³ [For more information, see NASDAQ OMX Member Rules section 4.9](#)

⁴ [For more information, see NASDAQ OMX Member Rules section 4.11](#)

- Membership needs to be applied separately for each of the exchanges within NASDAQ OMX Nordic, in order for the trader to start trading on each of the exchanges.

3 Trading sessions and holiday schedules

3.1 Regular trading sessions for regulated markets

Times in CET	Opening		Continuous Trading	Closing		After Market	
	Pre-open	Uncross		Pre-close	Uncross	Post Trade	Closed
Stockholm and Helsinki Equities	08:00	09:00	09:00-17:25	17:25	17:30	17:30	18:00-08:00
Market segment OMX STO Equities NOK Follows Norwegian Holiday schedules (Appendix I)	08:00	09:00	09:00-17:25	17:25	17:30	17:30	18:00-08:00
Stockholm and Helsinki Warrants	08:00	09:00	09:00-17:25	17:25	-	17:30	18:00-08:00
Stockholm and Helsinki Equity rights, subscr.opt, Convertibles, Fund Units	08:00	09:00:30	09:00:30-17:25	17:25	-	17:30	18:00-08:00
Copenhagen Equities, Warrants and Certificates	08:00	09:00	09:00-16:55	16:55	17:00	17:00	17:20-08:00
Copenhagen Equity Rights	08:00	09:00:30	09:00:30-16:55	16:55	17:00	17:00	17:20-08:00
Copenhagen Investment Funds and Other Collective Investment Schemes	08:00	09:45	09:45 -16:55	16:55	17:00	17:00	17:20-08:00
Iceland Equities, Equity Rights, ETF, Unit Trust Certificates (Collective Investment Undertakings), Fund Units	09:00**	10:30**	10:30**-16:25	16:25**	16:30**	16:30**	17:00-09:00**
Tallinn/ Riga/ Vilnius Equities, Fund Units	08:00	09:00	09:00-14:55	14:55	15:00	15:00	15:30-08:00

3.2 Regular trading sessions for First North markets

Times in CET	Opening		Continuous Trading	Closing		After Market	
	Pre-open	Uncross		Pre-close	Uncross	Post trade	Closed
First North Copenhagen	08:00	09:00	09:00–16:55	16:55	17:00	17:00	17:20–08:00
First North Finland	08:00	09:00	09:00-17:25	17:25	17:30	17:30	18:00-08:00
First North Iceland	09:00 **	10:30 **	10:30 **-16:25	16:25 **	16:30**	16:30**	17:00-09:00**
First North Stockholm	08:00	09:00	09:00-17:25	17:25	17:30	17:30	18:00-08:00
First North Convertibles	08:00	09:00	09:00-17:25	17:25	17:30	17:30	18:00-08:00
First North Baltics	08:00	09:00	09:00-14:55	14:55	15:00	15:00	15:30-08:00

**Times stated in box are CET standard time. During CET daylight savings time, the opening time and closing hours are an hour later in CET. Pre-Open starts at 10:00 CET, Opening Uncross at 11:30 CET and Closing Uncross at 17:30 CET.

3.3 Normal trading hours (local time)

The trading hours for NASDAQ OMX Nordic are as follows:

Market	Copenhagen	Stockholm	Helsinki	Iceland	Riga/Tallinn/Vilnius
Equities	09:00 – 17:00	09:00 - 17:30***	10:00 - 18:30	09:30-15:30	10:00 – 16:00
Equity rights	09:00:30 – 17:00	09:00:30 - 17:30	10:00:30 - 18:30	09:30-15:30	10:00 – 16:00
Convertibles		09:00:30 – 17:30			
Warrants and Certificates	09:00 – 17:00	09:00 - 17:30	10:00 – 18:30		
ETF, Investment Funds and Other Collective Investment Schemes	09:45 – 17:00	09:00:30 - 17:30	10:00:30 - 18:30	09:30-15:30	10:00 – 16:00
AtpListen*	09:00:30 – 17:00				
First North	09:00:30 - 17:00	09:00:30 - 17:30		09.30-15.30	10:00 -16:00
First North Convertibles		09:00:30 - 17:30			

* All basic transactions for trading on the CSE FUNDS market will remain in SAXESS. The market makers, however, must transparency report their negotiated transactions on the main market in INET to CPH Investment Funds.

*** During half days Post trade starts at CET 13:00, Closed 13:30

3.4 Concept of calls

Opening, closing and intraday calls are formed with two sub phases; order management and uncross.

1. Order management
 - a. During pre-open there is market transparency of all orders with displayed volume. Orders only eligible for the opening call are not displayed.
 - b. Before the closing call, only displayed orders are visible. Orders only eligible for the closing call are not displayed.
2. Price determination and share allocation takes place in uncross.

The opening call procedure is conducted to open all Order Books at virtually the same time.

3.5 Schedule for Manual trades

Manual trades (Trade reporting) is allowed from Pre-open up until Closed on all markets. Please refer to chapter 4.3, 4.5 and 5 for more information.

3.6 Schedule for Holidays 2010

See Appendix I.

4 Sessions during the trading day

4.1 Pre-open session

During the pre-open session, order and trade management including order entry for opening and closing calls is allowed.

In the examples below Stockholm and Helsinki schedules are described.

4.2 Calls

The Call procedure starts in all Order Books of the Market segment at virtually the same time. A Call consists of two phases: order management and uncross. The uncross lasts a short time, usually a fraction of a second. A random uncross sequence for the Order Books will be applied.

To facilitate the price formation process in calls, the order book information is supplemented with tentative matching information. It includes indicative matching price based on the prevailing order information, and how much total volume (including non-displayed volume) would be matched at the indicated price.

Uncross phase includes opening/closing price determination, share allocation and order information delivery.

4.2.1 Opening call

During the opening call there is Market by Order dissemination of the order book. Order entry and full order management is available through the 9:00 opening auction uncross (and after). Orders with time-in-force conditions Day, Good-Till-Cancel, Immediate-Or-Cancel and Good-Till-Time and On-open orders (Market-on-open (MOO), Limit-on-open LOO) and Imbalance on-open orders (IOOP)) become eligible interest for the opening auction. An IOC order is eligible for execution in the opening auction and will be cancelled after the completion of the opening auction if it is not fully executed. On-close orders (Market-on-close orders (MOC), Limit-on-close orders (LOC) and Imbalance on-close orders (IOOC)) can be entered, but are effective for closing auction only.

Orders are displayed in the market by order feed at their entered limit prices. The book will show crossed prices if the highest bids are at higher price levels than the lowest offers. The Market by Order does not include On-open, On-close, Non-displayed, Market and Hidden iceberg volumes.

Orders entered during pre-open are assigned time priority. No matching (continuous market) until 9:00. Imbalance information dissemination begins exactly 15 minutes before opening call for all issues, and is updated once a second if information is changed. Unexecuted orders (non-IOC and non-on open orders) remaining after the uncross will transition into the continuous market with retained time-priority.

		Pre-open	
		08:00 – 08:45	08:45 – 09:00
Order Management	Full order management Order entry: DAY, GTT, GTC, IOC, On-open and On-close orders Reducing volume maintains priority, other amendments through cancel/replace		
Auto matching	No		
Market by order transparency	All displayed orders (DAY, GTT, GTC, IOC). Shows displayed volume and limit price On-open/close orders, non-displayed, Market and Hidden iceberg volumes are not disseminated		
Equilibrium data (Net Order Imbalance information)	No	Equilibrium price (EP) with aggregated volume (Bid/Offer volume) Trade volume at EP including non-display volume on all orders. Signed imbalance volume based on all orders Disseminated from 08:45 and then every second if information is changed	

Figure 2 Schedule for a typical market opening with Call Auction at 09:00 in Stockholm/Helsinki

4.2.2 Order entry during call

Time priority for orders entered prior to the uncross and during continuous trading is based on the order entry time. Orders (with time-in-force condition GTC) entered prior to the current trading day will keep their time priority.

4.2.3 Closing call

Leading up to the closing call uncross there is Market by Order dissemination of the continuous order book. The Market by Order does not include MOC, LOC, IOOC, non-displayed, Market and Hidden iceberg volumes.

Continuous trading is halted 17:25 followed by a Pre-close period with no auto matching. The Pre-close period lasts approximately for 5 minutes and ends with the closing call uncross that randomly among order books takes place between 17:29:30 and 17:30. Order entry and full order management is available during the Pre-close with the exception for pegged orders that cannot be entered.

Orders with time-in-force conditions Day, Good-Till-Cancel and Good-Till-Time are transitioned automatically into the Pre-close and are eligible interest for the closing auction. Pegged orders are transitioned at their last limit price. On-close orders, i.e. Market-on-close orders (MOC), Limit-on-close orders (LOC) and Imbalance on-close orders (IOOC) can be entered until the closing call uncross. An IOC order entered during Pre-close is eligible for execution in the closing call uncross.

Orders entered are assigned time priority. The Imbalance dissemination begins exactly 17:25 and is updated once a second if information is changed.

	Continuous trading	Pre-Close
	9:00 – 17:25	17:25 - ~17:30
Order management	Full order management Order entry: DAY, GTT, GTC, IOC and on-close orders Order cancel and cancel/replace allowed	Full order management Order entry: DAY, GTT, GTC, IOC and on-close orders Order cancel and cancel/replace allowed Pegged orders remain with their last limit price. New pegged orders can not be entered
Auto matching	Yes	No
Market by order transparency	Unexecuted DAY, GTC, GTT orders from the opening uncross enter continuous market, IOC and On-open orders are cancelled Continuous book display orders are disseminated. On-close orders non-displayed and Hidden iceberg volumes are not disseminated	Unexecuted DAY, GTC, GTT orders from the continuous market enter Pre-close Display orders are disseminated. On-close orders, non-displayed, Market and Hidden iceberg volumes are not disseminated
Equilibrium data (Net Order Imbalance information)	No	Equilibrium price EP with aggregated volume (Bid/Offer volume) Trade volume at EP including non-display volume on all orders. Signed imbalance volume based on all orders Disseminated from 17:25 and then every second if information is changed

Figure 3 Schedule for market closing with Call Auction at 17:30 in Stockholm/Helsinki

4.2.4 Net Order Imbalance

During the imbalance dissemination period preceding the opening and closing uncross, the following Equilibrium data is provided:

- Equilibrium price (EP) and volume
 - Equilibrium price
 - Traded volume (including imbalance orders)
 - Imbalance volume (excluding imbalance orders)
 - Imbalance direction (Buy/Sell)
 - Best Bid price (will be equal to the EP if the book is crossed)
 - Best Ask price (will be equal to the EP if the book is crossed)
 - Bid volume at top of book or aggregated at EP if the book is crossed
 - Ask volume at top of book or aggregated at EP if the book is crossed

Best Bid and Ask prices and volumes are defined based on all orders except imbalance orders.

The Equilibrium Opening Price is based on all orders (Day, GTC, GTT, IOC, LOO, MOO, non-display) and includes all order volume (except imbalance orders). The Equilibrium Price is disseminated in valid prices (i.e. using the relevant tick size table).

The Equilibrium Closing Price is based on all orders (Day, GTC, GTT, IOC, LOC, MOC, non-display) and includes all volume except imbalance orders. The Equilibrium Price is disseminated in valid prices (i.e. using the relevant tick size table).

4.2.5 Price determination

In the opening uncross all orders except on-close orders are eligible. In the closing uncross, all orders in the continuous book and all on-close orders are eligible. An uncross will only take place if there are crossing prices in the total Order Book. That is, if the best bid price is equal to or higher than the best (lowest) ask price. If so, an equilibrium price using the relevant tick size table will be determined according to the following criteria:

The price that maximizes the number of shares at the time of the uncross to be executed.

If more than one price exists under (1), the uncross shall occur at the price that minimizes any imbalance.

If more than one price exists under (2), the uncross shall occur at the price with the highest market pressure (i.e. shares will remain unexecuted in the cross).

If more than one price exists under (3), the uncross shall occur at a price that is the average price between the highest price with positive imbalance and the lowest price with negative unbalance. If this price is off tick it will be rounded to nearest tick. In the case of equal distance it will be rounded down.

When the equilibrium price has been determined, all orders that are more generous than this price are filled.

4.2.6 Share allocation

Share allocation follows price-internal-display-time priority. NB. NASDAQ OMX Baltic use price-display-time priority.

In the allocation:

1. Orders better than the equilibrium price are always filled.
2. In case of imbalance, orders at the equilibrium price eligible for matching are filled first by using internal priority. The order on deficit side with the best priority defines the first 'preferred party'. Then possible orders of the preferred party on the surplus side at the latest paid price level are first matched against the orders of the preferred party on the deficit side. If the deficit side is not fully matched, the following preferred party is defined and orders are matched according to the same principles.
NB. Internal order prioritization is not applicable to NASDAQ OMX Baltic.
3. Orders at the equilibrium price eligible for matching are filled secondly by using time priority, if there are still orders on deficit side after internal priority allocation.

As the meaning of market orders implies a more aggressive price than any limit order, it means that market orders have the highest priority. In the auctions, market orders can be MOO/MOC orders, or regular market orders entered in Pre-Open/Close with

time-in-force IOC. Those orders will in effect have the highest priority of all orders. The ranking between these two flavors of market orders is based on time of entry.

Volume with any non-display attribute has lower priority than corresponding volume without non-display attribute. After the uncross, unexecuted MOO/MOC, LOO/LOC, and IOOP/IOOC orders will be cancelled.

A cross trade message will be published in real time after the cross with aggregated auction information. Individual trades executed in the calls will however be publicly published right after a cross and later at the end of the trading day according to specifications available on our member website. NB. The trading participants always receive their individual trades in their private data.

4.3 Manual trades in the Pre-Open session

Manual Trades made during the Pre-Open Session must be reported before the execution of the uncross.

4.4 Continuous trading

Trading in the Order Book in accordance with the NASDAQ OMX NORDIC Member Rules results in On Exchange trades. During continuous trading, manual trades can be registered with trade types specified in chapter 5.

In continuous trading, each new incoming order is immediately checked for execution against orders on the opposite side of the Order Book. Orders can be executed in full or partially in one or more steps.

Orders in the Order Book will be matched according to the priority:
1=price; 2=internal; 3=displayed; 4=time.

NB. In NASDAQ OMX Baltic, the priority is: 1=price; 2=display; 3=time.

Buy or sell orders entered with the same price as a corresponding buy or sell order in the Order Book will be matched into a trade.

Buy orders entered into the Order Book with a higher buy price than the sell order with the lowest price (crossing prices), will be matched into one or more trades depending on the volume of the incoming order and the volume and the price of the sell order(s). The matching process will try to fill as much as possible of the volume in the incoming buy order until the limit of the crossing prices is passed.

Sell orders entered into the Order Book with a lower sell price than the buy order with the highest price (crossing prices), will be matched into one or more trades depending on the volume of the incoming order and the volume and the price of the buy order(s). The matching process will try to fill as much as possible of the volume in the incoming sell order until the limit of the crossing prices is passed.

The priority order in the same price level is first internal (where the incoming order is executed against the member's own orders⁵), then displayed volume over non-displayed volume, and then the time when the order was sent to the Order Book.

Non-displayed volume may either be part of a reserve order ("iceberg order", chapter 6 for order types and attributes) or a fully non-displayed order.

Trades are published in real-time. In Iceland and for Oslo shares listed in Stockholm all trades are always anonymous without counterparty information. In NASDAQ OMX Baltic, Copenhagen, Stockholm and for most order books in Helsinki, counterparty information is given.

At the end of the trading day, all counterparty information is released allowing market share statistics and other analysis, except for Oslo shares traded in Stockholm.

The same rules apply to counterparty information in trade reporting.

4.5 Post-Trading

During the post-trading session the following actions are allowed:

- Order cancellation
- Off hours transactions
- Limited order update

Trade cancellations are made in accordance with NASDAQ OMX NORDIC Member Rules.

Manual trades during the post-trading session can be reported in the Post-Trading session (up until closed) or at the latest in Pre-Open session the next trading day.

Entering the Post-trading phase, the expired orders are deleted.

4.6 Closing

The trades for deferred publication (depending on the allowable defer time) are published. No information or functions are accessible but logons and database queries are allowed.

4.7 Trade halts

Trading may be suspended by the NASDAQ OMX Nordic either due to technical reasons or regulatory reasons. Suspensions are regulated in NASDAQ OMX NORDIC Member Rules.

Technical suspension means that trading is suspended when the Order Book(s) become inaccessible for technical reasons.

⁵ Member's own orders as defined by having the same Market Participant ID (MPID)

Regulatory suspension means that the Order Book(s) are suspended due to rules and regulations. A regulatory suspension may affect one or several markets, Market segments or Order Books.

4.7.1 Stop codes

The stop codes listed below prohibit order entries and order amendments as well as trade reporting. The Matching Halt is similar to the Trade Halt but trade reporting is allowed. All stop reasons are also published as Exchange Notices in close connection to the event.

Suspension due to technical reasons (manual or automatic)

Used when the system is restarted (by the technical operations personnel) after a fatal technical error. All order books are set in a stop state. Technical disruptions are regulated in NASDAQ OMX NORDIC Member Rules. Trading must be suspended if a technical disturbance causes a major part of the Members (market shares) to lose connection to the markets. In SAXESS this was known as a Technical stop (TS).

Suspensions due to regulatory reasons (manual)

On NASDAQ OMX Nordics, a trading halt is imposed when there is an obvious risk that trading will no longer be carried out on equal terms or will not be based upon sufficient information (unfair market conditions). All investors must have equal access to information about the instruments traded. Whenever NASDAQ OMX Nordic encounters a situation of 'unfair market conditions' a trading halt is considered.

There are three variants of trade halt due to regulatory reasons: Matching halt (MH), Trading halt (TH) and Regulatory halt (RH):

• Trading halt (TH)

The trade halt is used as a regular procedure that temporarily halts trading when trading cannot take place in an orderly fashion. The duration of the trading halt continues until trading can take place in an orderly fashion again. The following applies to Instruments covered by a trading halt:

- Automatic order matching ceases
- Placement of new orders or changes in orders are not permitted, however an order may be cancelled from the order book
- For Helsinki and Stockholm, Manual Trades entered into prior to the trading halt shall be reported immediately as soon as trading has resumed.
- For Copenhagen and Iceland, manual trades can be reported during a Trading Halt provided the member ensures that any non-Member counterpart is made aware that the instrument is in trading halt.

• Regulatory halt (RH)

The regulatory halt was introduced in connection to the introduction of MiFID. In Stockholm, where Finansinspektionen (the Swedish Financial Supervisory Authority) decides whether such trading halt shall prevail.

The following applies to Instruments covered by a trading halt:

- Automatic order matching ceases
- Placement of new orders or changes in orders are not permitted, however an order may be cancelled from the order book

- Manual trades may not be reported

- **Matching halt (MH) (not applicable for NASDAQ OMX Stockholm)**

Matching may be halted when an announcement regarding an Instrument is to be made, in the event of irregular price movements, suspicion of unequal information in the market, or other events. The duration of the matching halt shall be as short as possible. The following applies to Instruments covered by a matching halt:

- Automatic order matching ceases
- Placement of new orders or changes in orders are not permitted, however an order may be cancelled from the order book
- Manual trades may be reported.

4.7.2 Resuming trading after a trading suspension

When a halt ceases, trading is resumed and the restrictions on order entry and changes to orders cease. The members are again committed by orders placed in the order book. It may be decided that trading after a halt should be resumed with a price-discovery process (call auction) equal to the opening call (including the on-open order types but without the possibility to enter Imbalance orders). It is also possible to "flush" the order book before resuming trading according to NASDAQ OMX Member rules.

4.8 Flushing of order books (removal of orders)

The order cancellation policy refers to "Good-till-Cancelled" (GTC) orders entered in an order book on NASDAQ OMX Nordic and First North equity markets in Copenhagen, Helsinki, Iceland, Stockholm, Riga, Tallinn and Vilnius in the event of corporate actions/dividends.

Corporate actions (such as Stock splits and Bonus issues) or dividends in listed companies, causing the market price to be adjusted significantly when taking effect on ex-date, are often subject to fluctuations in the order book during the pre-open session, as GTT orders are entered into the order book at old market price. This can lead to trades being executed at price levels deviating from the current market price.

To minimize the impact of orders that reflect the old price level, the exchanges will flush all orders during the post-trading session, the trading day before a corporate action or dividend with a significant price impact is to take place. The flushing procedures are intended to protect investors from trading on obsolete terms and to offer security to investors who use the GTC order functionality.

- **Flushing criteria**

The exchanges can take action if orders are entered into the order book at prices reflecting the market price before a corporate action or dividend, and when the prices meet the criteria for flushing.

In general, corporate actions and dividends qualify for flushing where:

A corporate action or dividend is expected to have an impact on the price of the security of at least 10% in either direction on ex-date, based on the closing price the previous trading day.

- **Flushing procedure**

The exchanges intervene in a swift and consistent manner based on the given criteria and make a decision as to whether orders are to be flushed, to ensure that the integrity of the market remains intact and that the risk of trades being executed at erroneous prices is minimized.

The exchanges will act according to the following flushing procedure:

All orders in order books qualifying for flushing will be flushed during the post-trading session the trading day before the corporate action or dividend applies (ex-date).

If there is uncertainty regarding the level of expected theoretical price impact or if it cannot be objectively estimated, the exchange reserves the right not to flush order books.

The flushing procedure is applicable for equities listed on NASDAQ OMX Nordic and First North equity markets in Copenhagen, Helsinki, Iceland, Stockholm, Riga, Tallinn and Vilnius.

4.9 Price Limit and Volume Validation

Members can request price limit checks (fat finger control) on entered orders. Price Limit Checks allow you to compare price instructions on incoming orders against the last sale during continuous trading. If the order is not within the pre-set range for the specific order book, the order will be rejected before it can execute.

Members can also request to apply a maximum number of shares restrictions per order. If maximum number of shares is exceeded, the order will be rejected by the host.

Full service description on the "member optional" Price Limit Validation called PRM Lite is available separately on our member website. .

5 Registration of Manual Trades

For trading on exchange, the member can either make trades in the Order Book or outside the Order Book. In both these cases the trades must be made in accordance with the NASDAQ OMX NORDIC Member Rules. Manual Trades are trades, which are made outside the Order Book as well as reported in accordance with NASDAQ OMX NORDIC Member Rules to the exchange.

Manual trades entered outside normal opening hours need to be reported / published as soon as possible, or in the morning of the following trading day of the trading venue where the instrument is listed. It is possible to report As-of trades (trades older than 1 day) on exchange and will be included in the turnover for the reporting day.

For full description and for details of trade reporting, please refer to the guidelines for trade reporting.

5.1 One-Party Matching Trade Reports

Members are able to report each side of a trade for matching by the exchange. When both parties have reported their side of the trade and the required data matches, a locked-in trade will be created.

5.2 Unmatched Trade Reports

Members or the Exchange can cancel unmatched Trade Reports. Else, unmatched Trade Reports will be cancelled by the system at the end of the trading day (day of entry of this report).

5.3 Two Party Trade Reports

One member is able to report both sides of a trade (internal crossing) when both buyer and seller are represented by the same member firm or if only one part of the trade is a member or if the reporting party is a service provider reporting the trade on behalf of a member (according to special exchange agreement).

5.4 Break Locked-in Trade / Cancel Trade

The entering trade participants are able to cancel trade report submitted trades (however this must be granted by the exchange). In case of matching trade reports, both parties must cancel (break) the trade. In the case of a two party trade report, only the reporting party needs to send in a cancel (break) request.

5.5 Trade Types

The following Trade Types are supported for Manual Trades:

Trade type	Definition
Standard Trade	A Trade concluded on standard market terms in respect of price, time of the trade and with standard delivery and settlement schedule.
Derivative Related Transaction	Exercise or expiration of options, forwards or futures contracts that imply an exchange of securities or a trade that relates to a derivatives trade and that forms an unconditional part of a combination together with a derivative trade.
Portfolio Trade	A transaction in more than one security where those securities are grouped and traded as a single lot against a specific reference price.
Volume weighted average price	A Trade, which price is based on a volume weighted average of trades made within pre-defined time period.
Exchange granted trade	A Trade pursuant to an individual or general authorization from NASDAQ OMX Nordic.
Pre-Opening Trade	A Trade, which is entered into in Pre-Opening on the date of admission to trading of an Instrument (Only applies to NASDAQ OMX Helsinki).

Note: The price of Standard Trades needs to be within the Volume Weighted Average Spread (VWAS).

5.6 Block Trades

Block trades are trades considered large in scale compared to the average daily turnover. They are allowed to be reported outside the volume weighted average spread (VWAS) in the market. The block trade thresholds are:

Class in terms of average daily turnover (ADT)	ADT < €500,000	€500,000 ≤ ADT < €1,000,000	€1,000,000 ≤ ADT < €25,000,000	€25,000,000 ≤ ADT < €50,000,000	ADT ≥ €50,000,000
Minimum size of trade qualifying as large in scale compared with normal market size	€ 50 000	€ 100 000	€ 250 000	€ 400 000	€ 500 000

Table 2 Block Trade Thresholds

Standard Trades in shares below the thresholds in the above table have to be made on or within the volume weighted average spread (VWAS). The VWAS is the reference price which would have been paid if the order had been executed in the central Order Book (i.e. would have been the average price if the orders had been auto matched). Standard Trades include all trades made on standard terms, also the ones made above the thresholds in Table 2, and outside the VWAS, if made on standard terms for the specific volume. Although principally the Member needs to make the trade on or within the Spread or VWAS, when there is no Spread, the Member needs to make the trade to a price that takes into account the market situation at the time of the trade.

5.7 Trade publication

For on-exchange trades, NASDAQ OMX Nordic allows waivers from the principle of immediate publication of a reported trade

- if the trade meets the ADT criteria set by MiFID and
- if it is a trade where the member takes on risk.

A request can be made for a trade to be deferred a time period in an incoming trade report. A trade will be deferred if one of the parties requests the trade to be deferred.

A deferred publication table as set by MiFID exists in each local currency and should be referred to for deferred publication rules that apply in each country. An example has been included in Appendix E.

For further details, including OTC trade reporting; please refer to the NASDAQ OMX NORDIC Member Rules and the reporting guidelines document (Guidelines for Members On Exchange trade and Members and Non-Members OTC trade Reporting).

6 Orders

6.1 Order types, validity and priority

The following order types, attributes and validity are available on NASDAQ OMX Nordic for Equities and related, and Miscellaneous.

Order Types

1. Limit Order

A Limit order stipulates a maximum purchase price or minimum selling price. If not fully matched, it is logged in the Order Book in descending buy-price order or ascending sell-price order and joins the queue of orders having the same price according to time priority.

If the price specified by a limit price is not valid according to the allowed tick sizes, it will be rounded to a less aggressive price (default) or rejected if that is preferred by the member. It will only execute at prices equal to or more generous than its specified limit price.

2. Market Order

A market price order is an order to sell or buy a stock at the current market price during continuous trading (Trading Hours) with Time-in-Force condition Immediate-or-Cancel (IOC). If used in the auction phase, it ensures participation in the uncross. However, it may not match (partially or fully) in the uncross depending on the market pressure of the order book.

The matching logic of the Market order is that it will hit the opposite side of the book and fill as much as possible at the best price level. Remaining volume will be cancelled, even though more volume is available at less favorable price levels.

To sweep through multiple price levels, a Limit order can be used, where the limit price crosses the BBO.

3. Imbalance Order (IOOP and IOOC)

The imbalance order is an order type that can be used in the auctions. It accepts the equilibrium price reached, based on limit orders and market orders in call auction and fills the theoretical imbalance between the surplus and the deficit side. It does not take part in the equilibrium price determination. Imbalance orders are prioritized among each other according to entry time of the order. Imbalance orders shall not affect the equilibrium price and shall be executed only against any surplus imbalance and not against each other.

Matching at NASDAQ OMX Nordic follows price-internal-display-time or price-display-time. The order type is not part of the prioritization. However, the Imbalance order does imply a certain (i.e. low) priority due to its nature and it is the only exception to the rule. All other orders will be prioritized either in price-internal-display-time order or in price-display-time order.

Imbalance orders cannot be used during Halt auctions.

The imbalance Order comes in two flavors:

Imbalance-on open orders (IOOP)

Provides liquidity intended to offset orders during the opening cross. Imbalance-only orders can only be limit orders. Imbalance-only buy/sell orders only execute at cross of opening call.

Imbalance-on-close orders (IOOC)

Provides liquidity intended to offset orders during the closing uncross. Imbalance-only orders can only be limit orders. Imbalance-only close buy/sell orders only execute at uncross of closing call.

Order Attributes

1. Reserve Order (Iceberg order)

In a Reserve order, a certain portion of the total volume of an order is not displayed in the Order Book. Both the displayed and non-displayed portions of the Reserve Order are available for potential execution against incoming orders. The non-displayed portion is included in the Order Book dissemination of Net Order Imbalance during the imbalance dissemination preceding the auction.

All changes on the order including changes to the volume (both visible and total volume) of a reserve order are accomplished using an order cancellation followed by an order insert. In addition, when the displayable portion of the order is completely executed within the book, the non-displayable portion of the order is decremented (retaining time priority) and a new displayable order is sent to the order book (with new time priority).

The technical implementation for some order functionality means that the functions are offered on a best effort basis. This means that the execution may be subject to so called 'race conditions' and that the outcome may be impacted by other (incoming) orders. E.g. the updating of open or displayed volume of a reserve order is done at a time when other orders may be entering the order book, thus leaving the order priority of the update non-deterministic.

A partially matched reserve order that is carried over (Time In force = GTC) will automatically get its original displayed quantity when re-entering the trading system the next trading day.

2. Pegged order

Pegged orders allow clients to price orders relative to the current market price for a security.

Offsets allow a client to peg an order with an incremental difference (tick) from the Best Bid Offer of an Order Book (BBO) and can be either positive (higher price) or negative (lower price).

There are three types of pegged orders:

- Primary Peg: Peg an order to the same side of the BBO.
- Market Peg: Peg an order to the opposite side of the BBO.
- Mid-point Peg: Peg an order to the mid-point of the BBO.

Pegged Orders have their price automatically adjusted by the Trading System in response to changes in BBO prices. A Pegged Order may specify a limit price beyond which the order shall not be executed (protection price). Mid-point Pegged Orders will never be displayed. It will only use prices available in the relevant tick size table, i.e. the mid-point peg may round, but always to a less aggressive price. A new timestamp is created for a pegged order each time it is automatically adjusted.

In order to secure that a pegged order do not peg towards other pegged orders the system automatically secures that pegged orders only refers to the displayed orders constituting the BBO seen in the public data.

The types of pegging and the incremental difference from the BBO may be used in the following fashion for Bids and Offers.

Pegged orders	Bids: Negative price difference Offers: Positive price difference	Zero difference	Bids: Positive price difference Offers: Negative price difference
Primary peg	Displayed and non-displayed orders	Displayed and non-displayed orders	Non-displayed order
Market peg	Displayed and non-displayed orders For displayed orders, price will be capped by the current BBO*	Available, but converted to an IOC	Available, but converted to an IOC
Mid-point peg	Non-displayed order	Non-displayed order	Available, but converted to an IOC

*Capped by the current BBO means that if a displayed market peg would end up inside the spread it will be automatically adjusted to the best bid or offer. This means that the actual offset may be larger than what was sent in originally. This applies both when the order is first submitted and when the BBO changes.

For example, a bid with a market peg and a negative price difference of 1 tick (i.e. -1), can either be displayed or non-displayed and will be entered into the order book at one tick below the current best offer.

Another example is a pegged order that is pegged to a price less aggressive than the BBO. This means that if the BBO is 100-102, a primary pegged bid order can put itself on best bid minus X ticks. In this example say 4 ticks, resulting in a pegged order with a price of 99 in this case (tick size in this example is 0,25).

A non-display pegged order must meet the large in scale criteria's as any other non-display order. See below. With any price or volume update the order will be validated accordingly. Non-displayed pegged orders that do not meet the criteria's will automatically be converted to an IOC (default behavior), or rejected if that is preferred by the member.

The technical implementation for some order functionality means that the functions are offered on a best effort basis. This means that the execution may be subject to so called 'race conditions' and that the outcome may be impacted by other (incoming) orders.

3. Minimum Quantity order

Orders can be entered for execution with a minimum share quantity. Minimum Quantity orders are only accepted during continuous trading with a time-in-force IOC (no other Time in Force will be allowed). Adding Minimum Quantity condition to an order and setting this to equal the volume gives the equivalent of a Fill-or-Kill (FoK). Minimum quantity cannot be combined with any other order attribute.

4. Non-displayed order (Hidden order)

Non-displayed limit orders are hidden from other participants than the participant entering it. The order stipulates a maximum purchase price or minimum selling price. If not fully matched, it is logged in the Order Book in descending buy-price order or ascending sell-price order and joins the queue of orders having the same price according to time priority. Visibility is ranked ahead of time priority. A displayed order entered at a later time is ranked ahead of an earlier non-displayed order (assuming both orders entered at the same price).

Non-displayed order has to be large in scale (LIS) at the time of entry. If the volume was reduced due to a partial execution, the order remains non-displayed even when smaller than LIS. Large in scale is defined as specified in the table below:

Class in terms of average daily turnover (ADT)	ADT < €500,000	€500,000 ≤ ADT < €1,000,000	€1,000,000 ≤ ADT < €25,000,000	€25,000,000 ≤ ADT < €50,000,000	ADT ≥ €50,000,000
Minimum size of order qualifying as large in scale compared with normal market size	€ 50 000	€ 100 000	€ 250 000	€ 400 000	€ 500 000

Non-displayed orders that do not meet the LIS criteria will automatically be converted to an IOC (default behavior), or rejected if that is preferred by the member. This validation will also be done when performing an Cancel/Replace on the order.

The only other attribute that can be used in combination with the Non-display attribute is pegging. In general, the following combinations of order attributes are possible.

	Reserve	Pegged	Minimum qty	Non-displayed
Reserve	-	x		
Pegged	x	-		x
Minimum qty*			-	
Non-displayed		x		-

* only used together with IOC and equivalent to minimum matching quantity

Time in Force

1. Immediate-or-cancel (IOC)

If an IOC (also known as Fill and Kill (FAK)) order is not matched immediately into trade(s) in full or in part upon entry, the remaining part of the order is cancelled. IOC orders can be used during continuous trading and auctions. If Minimum Order Quantity (MOQ) is specified at a level equal to the total order quantity within an IOC order, the order is effectively handled as a Fill-or-Kill (FOK) Order.

2. Good-till-market close

Order is valid until the close.

3. Good-till-cancelled (GTC)

Order is valid until it is cancelled. If the order is left overnight, it will be inserted again in the order book the next morning at open. The GTC orders will retain their original chronological order based on original entry time into the system. If the order is left for several days, the orders will retain their original chronological order.

4. Good-till-time (GTT)

The Order is valid until a specified time of current day.

5. Day order

A Day order is active for the trading day and any unexecuted portion will be cancelled immediately after the closing cross. Presently, the meaning of Good-till-market close and Day orders is identical.

Other conditions

On-open orders

On-open orders specifically request execution at the opening price of the opening call. They can be specified as market priced (MOO) or limit priced (LOO) orders. MOO and LOO orders can be entered during possible intra-day halt actions as well.

"Limit On Open Order" or "LOO" shall mean an order to buy or sell at a specified price or better that is to be executed only during the Opening Call. LOO Orders will execute only at the price determined by the Opening Call.

"Market on Open Order" or "MOO" shall mean an order to buy or sell at the market that is to be executed only during the Opening Call. MOO orders will execute only at the price determined by the Opening Call.

As the definition of a market order is to price itself aggressively enough to put itself ahead of any competing limit order, the result is that the market order will always have the highest priority when allocating matched shares in the uncross of the call.

Imbalance on open orders, see section 6.1.

On-close orders

On-close orders specifically request execution at the closing price of the closing call. They can be specified as market priced (MOC) or limit priced (LOC) orders.

"Limit On Close Order" or "LOC" shall mean an order to buy or sell at a specified price or better that is to be executed only during the Closing Call. LOC Orders will execute only at the price determined by the Closing Call.

"Market on Close Order" or "MOC" shall mean an order to buy or sell at the market that is to be executed only during the Closing Call. MOC orders will execute only at the price determined by the Closing Call.

As the definition of a market order is to price itself aggressively enough to put itself ahead of any competing limit order, the result is that the market order will always have the highest priority when allocating matched shares in the uncross of the call.

Imbalance on close orders, see section 6.1.

6.2 Order modification

The priority of an order is retained if the volume is reduced. Existing orders cannot be increased in volume but can of course be cancelled.

NB. All reserve order updates are always executed via order cancel/insert, thus creating a new time priority. A new timestamp is created for the replenished portion of the order each time it is replenished from reserve, while the reserve portion retains the timestamp of its original entry.

6.3 Order price

If a price is needed, it is expressed in monetary amount e.g. SEK, EUR. Pegged orders and market orders do not include a numeric price value.

6.4 Tick sizes

Tick size is the smallest allowed price movement and is thereby also the smallest possible difference between the buy and sell price in a share, "minimum spread". Only very liquid shares are usually traded on the minimum spread.

Example of the tick sizes can be found in Appendix F. Please refer to the NASDAQ OMX Website for current tables.

Given the tick size specifications, it is worth noting that trades will be displayed with four decimals.

If the price specified by a limit price is not valid according to the allowed tick sizes, it will be rounded to a less aggressive price (default) or rejected if that is preferred by the member.

6.5 Trading capacity information

When a member enters an order, it must also indicate the party on whose behalf such order is given. The trading capacity is expressed with an owner category. Such owner categories consist of trades for the member's own account, trades executed for a client, trades by listed companies i.e. repurchase or disposal of the issuer's own shares, trades executed by the member as a market maker and trades executed in the context of initial public offerings in order to support the market price for a predetermined time. Thus, the available categories are: own account, client, issuer holdings, market maker, riskless principal and issue price stabilization. Owner category must also be given when reporting manual trades.

7 Order Routing

NASDAQ OMX Nordic offers routing to away markets trading Nordic shares. The objective is to provide order routing to access the away markets while mitigating both transaction and post-trade costs to the member. The requirements for order routing (membership, technology and infrastructure) are all part of the offering. When a routable order is sent to NASDAQ OMX Nordic, it will be managed according to the routing strategy.

General three step order routing process:

(1) Order will first try to match at INET Nordic. (2) Order will then route to away markets. (3) Remaining order volume will be posted in main order book.

Routing is optional. For further details, please refer to the Order routing Service description that is available separately on the member web.

Revision History

Date	Revision	Change Description
October 3, 2008	1.0	Initial version for NASDAQ OMX Nordic
November 17, 2008	1.0.1	New opening and closing call design
December 23	1.0.2	Minor updates and clarifications
February 13, 2009	1.0.3	Discretionary orders to be implemented in a later phase ETC currently has no active order books
March 12, 2009	1.0.4	OMX STO Equities NOK added in schedule Detail in Appendix D corrected Discretionary order removed completely since they are not allowed by the authorities
May 19, 2009	1.0.5	Minor updates and clarifications. Pegging logics further described
June 1, 2009	1.0.6	Market order logics explained. Icelandic times updated.
September 7 , 2009	1.0.7	Norwegian schedule updated. All IOCs are not displayed in market by order in pre-open and pre-close Non-displayed orders that do not meet the LIS criteria will automatically be converted to an IOC or rejected Price validation updated. Pegged and Reserve orders clarified Other minor updates in text and examples
November 2, 2009	1.0.8	Helsinki convertibles not to migrate Clarification that Imbalance orders not to participate in forming the equilibrium price Pegged orders clarified that a displayed market peg would end up inside the spread it will be automatically adjusted to the best bid or offer Off tick size priced orders can be rounded or rejected Call only orders not available as a specific condition. It is however possible to enter On-open, On-close and in case of an halt auction orders only eligible for that event Tick size tables updated to reflect latest changes Other minor updates in text and examples
January 21, 2010	1.1	Icelandic trading schedule updated. Closing auction at CET 16:30. Other minor clarifications and editorial in text and examples:

Date	Revision	Change Description
		<ul style="list-style-type: none"> - At closing auction, un-cross will take place randomly among order books the last 30 seconds before moving into Post-trade - Expired orders are deleted when entering Post trade - Deferred trade reports cannot be released in post trade - Imbalance orders are not allowed during intra-day calls - A partially matched reserve order that is carried over will get its original displayed quantity when re-entered the next trading day - Tick sizes updates to reflect current setup in SAXESS - Baltic non-trading days for 2010 updated - Information on logics for setting closing prices and trade statistics

NASDAQ OMXSM

Appendix A: Call examples

Rule 1. Maximum tradable quantity

The following examples illustrate the case when the maximum tradable quantity principle is used in price determination.

Example 1:

Assume Stock E has the following characteristics:

Price tick: 0.10

Assume the following aggregated book:

Buy								Ask	Paired	Imbalance
Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Cum	All	All
-				MP				116,000	0	-116000
-				54.5	100000			116,000	0	-116000
-				54.40	10000			16,000	0	-16000
5,000		5000		54.30	3000			6,000	5000	-1000
5,000				54.20		1000		3,000	3000	2000
5,000				54.10		1000		2,000	2000	3000
5,000				54.00				1,000	1000	4000
9,000		4000		53.90				1,000	1000	8000
12,000		3000		53.80		1000		1,000	1000	11000
14,000			2000	53.70				-	0	14000
24,000			10000	53.60				-	0	24000
124,000			100000	53.50				-	0	124000
124,000				MP				-	0	124000

OC / OO are On-Close or On-Open conditioned orders.

Limit Qty is the regular limit order that will be part of calls and the continuous matching.

In this example the maximum tradable volume is at 54.30 which is selected as Equilibrium Price (EP)



Imbalance information

Normal Order Imbalance Indicator NOII is disseminated during the last minutes of all calls containing information about the indicative EP. The NOII information in this case would be:

Field	Value	Comment
Paired Quantity	5 000	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	1 000	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	Sell	
Equilibrium Price (EP)	54.30	
Best Bid Price	54.30	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Ask Price	54.30	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	5 000	Aggregated volume at Best Bid
Best Ask Qty	6 000	Aggregated volume at Best Ask

Order transfer

Unmatched On-Open orders will not enter the continuous market.

Rule 2. Minimum imbalance (The following examples illustrate the principle is used in price determination (rule 2)). **Example 2:**

the case when the minimum imbalance

Buy Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Ask Cum	Paired All	Imbalance All
-				MP				116,500	0	-116500
-				54.5	100000			116,500	0	-116500
-				54.40	10000			16,500	0	-16500
-				54.30	3000			6,500	0	-6500
5,000		5000		54.20				3,500	3500	1500
10,000		5000		54.10	1000	1500		3,500	3500	6500
10,000				54.00				1,000	1000	9000
14,000		4000		53.90				1,000	1000	13000
17,000		3000		53.80		1000		1,000	1000	16000
19,000			2000	53.70				-	0	19000
29,000			10000	53.60				-	0	29000
129,000			100000	53.50				-	0	129000
129,000				MP				-	0	129000

The tradable volume is equal on 54.20 and 54.10 but the imbalance smaller at 54.20.

Imbalance information:

Field	Value	Comment
Paired Quantity	3 500	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	1 500	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	Buy	
Equilibrium Price (EP)	54.20	
Best Bid Price	54.20	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Ask Price	54.20	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	5 000	Aggregated volume at Best Bid
Best Ask Qty	3 500	Aggregated volume at Best Ask

Rule 3. Market pressure principle

The following example illustrates the case when there are several price levels that fulfill the maximum volume and minimum imbalance criteria and the surpluses are the same. In this case, the price level that would leave volume is the equilibrium price - market pressure.

Example 3:

Buy Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Ask Cum	Paired All	Imbalance All
-				MP				116,500	0	-116500
-				54.5	100000			116,500	0	-116500
-				54.40	10000			16,500	0	-16500
-				54.30	3000			6,500	0	-6500
5,000		5000		54.20				3,500	3500	1500
5,000				54.10	1000	1500		3,500	3500	1500
10,000		5000		54.00				1,000	1000	9000
14,000		4000		53.90				1,000	1000	13000
17,000		3000		53.80		1000		1,000	1000	16000
19,000			2000	53.70				-	0	19000
29,000			10000	53.60				-	0	29000
129,000			100000	53.50				-	0	129000
129,000				MP				-	0	129000

Both maximum tradable volume and imbalance is equal for 54.20 and 54.10, As there is a bid market pressure the highest price will be selected.

Imbalance information:

Field	Value	Comment
Paired Quantity	3 500	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	1 500	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	Buy	
Equilibrium Price (EP)	54.20	
Best Bid Price	54.20	In case the market is not crossed this will show the spread, in this case shows the EP.
Best Ask Price	54.20	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	5 000	Aggregated volume at Best Bid
Best Ask Qty	3 500	Aggregated volume at Best Ask

Rule 4. Prices that are equally close to zero imbalance

If there are several price levels that fulfill the maximum tradable and minimum imbalance criteria and

- the surpluses have different signs (positive and negative) or,
- there is more than one price level that have 0 imbalance,

The equilibrium price is chosen to be the mean price between the highest price level lowest price level from step 3. If price is off-tick it will be rounded to the closest tick, if the price is equally close to 2 ticks then it will be rounded down.

Example 4a – Imbalance shift signs:

Buy Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Ask Cum	Paired All	Imbalance All
-				MP				117,000	0	-117000
-				54.5	100000			117,000	0	-117000
-				54.40	10000			17,000	0	-17000
-				54.30	3000			7,000	0	-7000
-				54.20				4,000	0	-4000
1,500		1500		54.10	1000			4,000	1500	-2500
2,000		500		54.00		1000		3,000	2000	-1000
3,000		1000		53.90				2,000	2000	1000
6,000		3000		53.80		2000		2,000	2000	4000
8,000			2000	53.70				-	0	8000
18,000			10000	53.60				-	0	18000
118,000			100000	53.50				-	0	118000
118,000				MP				-	0	118000

In this case the uncross price is the mean 54.00 and 53.90 which is equal to 53.95, since this equally close valid ticks it will be rounded down to 53.90



Imbalance information

Market by Order is disseminated and will show only orders from the continuous book. The Normal Order Imbalance Indicator NOII includes information implying the hidden on-close quantity. The NOII information in this case would be:

Field	Value	Comment
Paired Quantity	2 000	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	1 000	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	Buy	
Equilibrium Price (EP)	53.90	
Best Bid Price	53.90	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Ask Price	53.90	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	3 000	Aggregated volume at Best Bid
Best Ask Qty	2 000	Aggregated volume at Best Ask

Example 4b– Range of zero imbalances:

Buy Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Ask Cum	Paired All	Imbalance All
-				MP				118,000	0	-118000
-				54.5	100000			118,000	0	-118000
-				54.40	10000			18,000	0	-18000
-				54.30	3000			8,000	0	-8000
1,500		1500		54.20	1000			5,000	1500	-3500
2,000		500		54.10	1000	1000		4,000	2000	-2000
2,000				54.00				2,000	2000	0
2,000				53.90				2,000	2000	0
2,000				53.80				2,000	2000	0
3,000			1000	53.70				2,000	2000	1000
6,000			3000	53.60		2000		2,000	2000	4000
106,000			100000	53.50				-	0	106000
106,000				MP				-	0	106000

In this case the uncross price is the mean 54.00 and 53.80 which is equal to 53.90, since this on tick EP will be 53.90

Imbalance information:

Field	Value	Comment
Paired Quantity	2 000	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	0	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	Buy	
Equilibrium Price (EP)	53.90	
Best Bid Price	53.90	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Ask Price	53.90	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	2 000	Aggregated volume at Best Bid
Best Ask Qty	2 000	Aggregated volume at Best Ask

Example 5 –NOII in an uncrossed market:

Assume the following book:

Buy								Ask	Paired	Imbalance
Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Cum	All	All
-				MP				116,000	0	-116000
-				54.5	100000			116,000	0	-116000
-				54.40	10000			16,000	0	-16000
-				54.30	3000			6,000	0	-6000
-				54.20	1000			3,000	0	-3000
-				54.10	1000	1000		2,000	0	-2000
-				54.00				-	0	0
-				53.90				-	0	0
-				53.80				-	0	0
6,000		5000	1000	53.70				-	0	6000
9,000			3000	53.60				-	0	9000
109,000			100000	53.50				-	0	109000
109,000				MP				-	0	109000

Imbalance information:

Field	Value	Comment
Paired Quantity	0	Total paired Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Quantity	0	Imbalance Qty at Equilibrium Price, including all orders and hidden qty.
Imbalance Direction	N/A	
Equilibrium Price (EP)	N/A	
Best Bid Price	53.70	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Ask Price	54.10	In case the market is not crossed this will show the spread, in this case it shows the EP.
Best Bid Qty	6 000	Aggregated volume at Best Bid
Best Ask Qty	2 000	Aggregated volume at Best Ask



The NOII information then indicates the spread in the market

including hidden volume.

Example 6 - Share allocation

Similar to example 1 the aggregated book is based on the following order book:

Order book

Bid				Ask			
Order#	Time	Volume	Price	Price	Volume	Time	Order#
1	b1	0(3000)	54.30	53.80	0(1000)	a4	11
5	b5	0(2000)	54.30	54.10	0(500)	a1	8
2	b2	0(1500)	53.90	54.10	0(500)	a3	10
4	b4	0(2500)	53.90	54.20	0(1000)	a2	9
3	b3	0(500)	53.80	54.30	350	a5	12
6	B6	0(2500)	53.80	54.30	2650	a6	13
7	B7	2000	53.70				



This will create the following aggregated quantities:

Buy Cum	IO	OC / OO	Limit Qty	Price	Limit Qty	OC / OO	IO	Ask Cum	Paired All	Imbalance All
-				MP				6,000	0	-6000
-				54.5				6,000	0	-6000
-				54.40				6,000	0	-6000
5,000		5000		54.30	3000			6,000	5000	-1000
5,000				54.20		1000		3,000	3000	2000
5,000				54.10		1000		2,000	2000	3000
5,000				54.00				1,000	1000	4000
9,000		4000		53.90				1,000	1000	8000
12,000		3000		53.80		1000		1,000	1000	11000
14,000			2000	53.70				-	0	14000
14,000				53.60				-	0	14000
14,000				53.50				-	0	14000
14,000				MP				-	0	14000

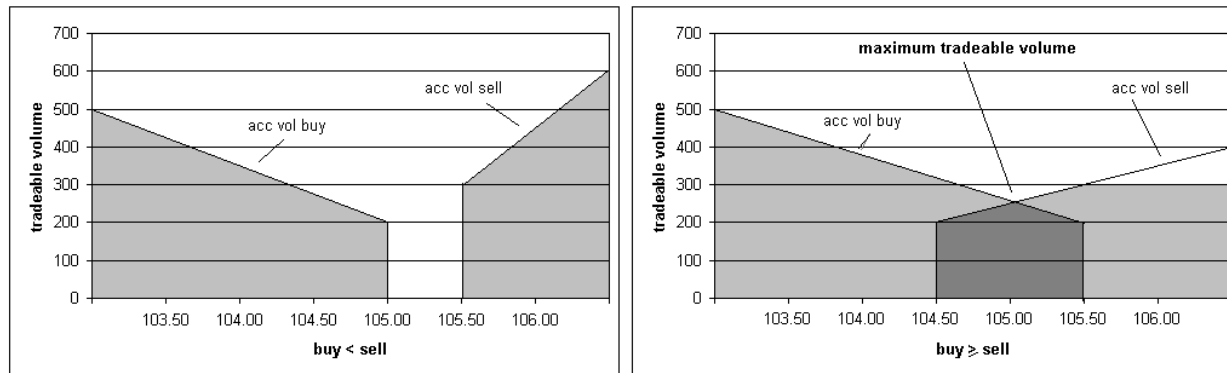
Matching will start from the deficit side, in this case the bid side. In case of internal matching these will be sought out first, however in this example we assume no internal matches.

The following trades will be generated:

Order #	Price	Qty
1 - 11	54.30	1 000
1 - 8	54.30	500
1 - 10	54.30	500
1 - 9	54.30	1 000
5- 12	54.30	350
5- 13	54.30	1650

Equilibrium Price Determination – graphical example

The figure below shows supply (turn-S) and demand curves (turn-B) for two different cases. In one case (left), the best buy price is less than (<) the best sell price. In the other case (right), the buy price is higher than (>) the best sell price.



The equilibrium price is set to the price where the biggest volume can be traded i.e. where both curves meet (in the right-hand example above). If the curves do not meet (as in the left-hand example above), there is no equilibrium price.

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Appendix B: Matching examples, price-internal-displayed-time priority and Market orders

1. Internal priority without Reserve orders

The following buy orders are entered into the Order Book in the following sequence.

Bid						Ask					
Order#	Time	Member	Display volume	Reserve volume	Price	Price	Reserve volume	Display volume	Member	Time	Order#
1	1	AAA	75000		15,00						
2	2	BBB	15000		15,00						
3	3	AAA	35000		14,90						

An ask order is entered by Member BBB. Order #4, 50000@14,90.

The following trades are matched according to price-internal-time priority.

Order #2/4 - 15000@15,00

Order #1/4 - 35000@15,00

The following orders remain in the Order Book.

Bid						Ask					
Order#	Time	Member	Display volume	Reserve volume	Price	Price	Reserve volume	Display volume	Member	Time	Order#
1	1	AAA	40000		15,00						
3	3	AAA	35000		14,90						

2. Internal priority with Reserve orders

Remarks: When Reserve order is matched with another order, each new open quantity has a new timestamp.

The following buy orders are entered into the Order Book. Order #2 is a reserve order with total volume of 50000 shares and instructions to display (d) 15000 shares and hidden (h) 35000 shares

Bid						Ask					
Order#	Time	Member	Display volume	Reserve volume	Price	Price	Reserve volume	Display volume	Member	Time	Order#
1	1	AAA	40000		15,00						
2d	2	BBB	15000		15,00						
3	3	AAA	5000		15,00						
2h	2	BBB		35000							
4	4	CCC	35000		14,90						

An ask order is entered by Member BBB. Order #5, 45000@14,90.

The following trades are matched according to price-internal-time priority.

Order #2/5 - 15000@15,00

Order #2/5 - 30000@15,00

The following orders remain in the Order Book.

Bid						Ask					
Order#	Time	Member	Display volume	Reserve volume	Price	Price	Reserve volume	Display volume	Member	Time	Order#
1	1	AAA	40000		15,00						
3	2	AAA	5000		15,00						
2	3	BBB	5000		15,00						
4	4	CCC	35000		14,90						

An ask order is entered by Member CCC. Order #6, 50000@14,90.

The following trades are matched according to price-internal-time priority.

Order #1/6 - 40000@15,00

Order #3/6 - 5000@15,00

Order #2/6 - 5000@15,00

And finally, the following buy order is remaining after matching.

Bid						Ask					
Order#	Time	Member	Display volume	Reserve volume	Price	Price	Reserve volume	Display volume	Member	Time	Order#
4	4	CCC	35000		14,90						

3. Market orders

A. Market order logics

Current order book, continuous trading, BBO = 9,00-9,03

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
1	1		200	9,00	9,03	300		6	6
2	2		300	8,98	9,04	500		7	7
3	3		200	8,98	9,05	1000		8	8
4	4		200	8,90					
5	5		100	8,70					

A Bid Market order #9 2000@MP is entered

Order book after event

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
1	1		200	9,00	9,04	500		7	7
2	2		300	8,98	9,05	1000		8	8
3	3		200	8,98					
4	4		200	8,90					
5	5		100	8,70					

Trades: Order #9/6 – 300@9,03

B. Limit IOC

To sweep through multiple price levels, a Limit IOC order can be used, where the limit price is crosses the BBO.

Current order book, continuous trading, BBO = 9,00-9,03

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	Display volume	Time	Order#
1	1		200	9,00	9,03	300		6	6
2	2		300	8,98	9,04	500		7	7
3	3		200	8,98	9,05	1000		8	8
4	4		200	8,90					
5	5		100	8,70					

A Limit IOC order #9 1000@10,00 is entered

Order book after event

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	Display volume	Time	Order#
1	1		200	9,00	9,05	800		8	8
2	2		300	8,98					
3	3		200	8,98					
4	4		200	8,90					
5	5		100	8,70					

Trades: Order #9/6 – 300@9,03
 Order #9/7 – 500@9,04
 Order #9/8 – 200@9,05

Appendix C: Matching examples, Reserve and Hidden orders

Building order book on ask side

All orders entered during continuous trading in the following order

1. Sell 1000 at 9.00 SEK, 100 displayed
2. Sell 200 @ 9.00 SEK
3. Sell 200 @ 9.00 SEK, all hidden
4. Sell 400 @ 9.00 SEK, 100 displayed

Order book after event:

Bid						Ask					
Order#	Reserve /hidden time	Reserve /hidden Time	Display volume	Display volume	Price	Price	Display volume	Reserve /hidden volume	Reserve /hidden Time	Reserve /hidden time	Order#
						9,00	100	900 R	1a	1b	1
						9,00	200		2		2
						9,00		200 H		3	3
						9,00	100	300 R	4a	4b	4

Please note that Reserve orders are assigned two time priorities when they are entered into the book – one for the displayed portion and one for the hidden quantity. In the tables above, this is indicated using (a) and (b).

Please also note that hidden orders have to be large in scale (LIS) at the time of entry. This is not the case in the examples.

Example 1:

State of the order book on the ask side

At price level 9.00 SEK we have the following:

- 400 display,
- 1,200 reserve, and
- 200 hidden

Bid						Ask						
Order#	Reserve /hidden		Reserve /hidden		Display volume	Price	Price	Reserve /hidden		Reserve /hidden		Order#
	time	Time	volume	volume				Display volume	Time	time		
						9,00	100	900 R		1a	1b	1
						9,00	200			2		2
						9,00		200 H			3	3
						9,00	100	300 R		4a	4b	4

Assume a bid order comes in for 1,800 shares @ 9.00 SEK

Allocation

First from displayed volumes

- 1) 100 shares from order number 1a
- 2) 200 shares from order number 2
- 3) 100 shares from order number 4a

Then from Reserved / Hidden quantity

- 4) 900 shares from order number 1b
- 5) 200 shares from order number 3
- 6) 300 shares from order number 4b

Trades

Takes place in following order (same as allocation)

- 1) 100 shares from order number 1a
- 2) 200 shares from order number 2
- 3) 100 shares from order number 4a
- 4) 900 shares from order number 1b
- 5) 200 shares from order number 3
- 6) 300 shares from order number 4b

The remaining book will be empty since all volume, displayed and hidden, been matched.

Example 2:

State of the order book on the ask side

At price level 9.00 SEK we have the following:

- 400 display,
- 1,200 reserve, and
- 200 hidden

Bid						Ask						
Order#	Reserve /hidden time	Reserve /hidden Time	Display volume	Display volume	Price	Price	Display volume	Reserve /hidden volume	Reserve /hidden volume	Time	Time	Order#
						9,00	100	900 R		1a	1b	1
						9,00	200			2		2
						9,00		200 H			3	3
						9,00	100	300 R		4a	4b	4

Assume a bid order comes in for 250 shares at 9 SEK

Allocation

First from displayed volumes

- 1) 100 shares from order number 1
- 2) 150 shares from order number 2

Order #1 will be refreshed with 100 shares from reserve

Trades

Takes place in following order

- 1) 100 shares from order number 1
- 2) 150 shares from order number 2

Book will now look like this:

Bid						Ask						
Order#	Reserve /hidden time	Reserve /hidden Time	Display volume	Display volume	Price	Price	Display volume	Reserve /hidden volume	Reserve /hidden volume	Time	Time	Order#
						9,00	50			2		2
						9,00		200 H			3	3
						9,00	100	300 R		4a	4b	4
						9,00	100	800 R		5	1b	1

Detail:

- The reserve element of order #1 retains time priority. The iceberg refresh is entered as a new order #5.
- The remaining quantity of order #2 retains time priority
- No change to the completely hidden order priority

Example 3:

State of the order book on the ask side

At price level 9.00 SEK we have the following:

- 400 display,
- 1,200 reserve, and
- 200 hidden

Bid						Ask						
Order#	Reserve /hidden		Display volume	Reserve /hidden volume	Price	Price	Reserve Display /hidden		Time	Reserve /hidden		Order#
	time	Time					volume	volume		Time	time	
						9,00	100	900 R	1a	1b		1
						9,00	200		2			2
						9,00		200 H		3		3
						9,00	100	300 R	4a	4b		4

Assume a bid order comes in for 1200 shares at 9.00 SEK

Allocation

First from display

- 1) 100 shares from order number 1a
- 2) 200 shares from order number 2
- 3) 100 shares from order number 4a

Then from Reserved / Hidden quantity

- 4) 800 shares from order number 1's reserve pool (1b)

Trades

Take place in following order

- 1) 100 shares from order number 1a
- 2) 200 shares from order number 2
- 3) 100 shares from order number 4a
- 4) 800 shares from order number 1's reserve pool (1b)

Book will now look like this:

Bid						Ask					
Order#	Reserve /hidden time	Reserve /hidden Time	Display volume	Display volume	Price	Price	Reserve Display volume	Reserve /hidden volume	Time	Reserve /hidden time	Order#
						9,00	100		5		1
						9,00	100	200 R	6	4b	4
						9,00		200 H		3	3

Detail:

- Order #1 will be refreshed with remaining 100 shares from reserve. The reserve is now depleted and the refresh is given priority "5" in the book.
- Order #2 has been fully executed.
- Order #3 retains priority
- The displayed element of order #4 was matched, the reserve element maintains priority, the refreshed display order is given priority "6"

Appendix D: Pegged orders

Pegged orders allow a pricing of the orders relative to the current market price defined as Best Bid Offer (BBO). NB. Non-display must meet Large in scale criteria. This is not reflected in the examples below.

Tick size is 0,01 in the following examples.

1. Current order book, continuous trading, BBO = 9,00-9,03

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
1	1		200	9,00	9,03	300		6	6
2	2		300	8,98	9,04	500		7	7
3	3		200	8,98	9,05	1000		8	8
4	4		200	8,90					
5	5		100	8,70					

2. A bid primary non-displayed peg order #9 200@Best Bid + 0,02 (2 ticks) is entered, meaning actively trading @9,02, BBO = 9,00-9,03

Order book after event:

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
				9,02 (Primary + 0,02)					
9	9	200		9,02	9,03	300		6	6
1	1		200	9,00	9,04	500		7	7
2	2		300	8,98	9,05	1000		8	8
3	3		200	8,98					
4	4		200	8,90					
5	5		100	8,70					

3. An ask is entered, order #10, 100@9,00, BBO = 9,00-9,03

Order #10, 100@9,00 hits the best price, which is the non-display order #9

Order book after event:

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	Non-display display volume	Time	Order#
				9,02 (Primary + 0,02)					
9	9	100			9,03	300		6	6
1	1		200	9,00	9,04	500		7	7
2	2		300	8,98	9,05	1000		8	8
3	3		200	8,98					
4	4		200	8,90					
5	5		100	8,70					

Trades: Order #10/9 – 100@9,02

4. A new ask is entered, order #11, 50@9,01 which is within the price range, BBO = 9,00-9,03

Order #9 is partially filled

Order book after event:

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	Non-display display volume	Time	Order#
				9,02 (Primary + 0,02)					
9	9	50			9,03	300		6	6
1	1		200	9,00	9,04	500		7	7
2	2		300	8,98	9,05	1000		8	8
3	3		200	8,98					
4	4		200	8,90					
5	5		100	8,70					

Trades: Order #11/9 – 50@9,02

5. Order #1 is cancelled, new bid is entered, order #12, 100@9,01, BBO = 9,01-9,03

This means that order #9 is cancelled and a new pegged order is sent in based on the new best bid. Order #13, 50@ Best bid + 0,02 (9,03 and within the price range of order #6)

Order #13 will match with Order #6

Order book after event:

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
12	12		100	9,01	9,03	250		6	6
2	2		300	8,98	9,04	500		7	7
3	3		200	8,98	9,05	1000		8	8
4	4		200	8,90					
5	5		100	8,70					

Trades: Order #13/6 - 50@9,03

6. Other pegging scenarios

1. A bid market peg order #12 100@Best Offer - 0,02 is entered meaning actively trading @ 9,01 (non-displayed)

2. A bid market peg order #13 200@Best Offer - 0,03 is entered meaning actively trading @9,00 (displayed)

3. A bid mid-point peg order #14 500 @ - 0,00 is entered meaning actively trading @9,02 (non-displayed)

Order book after event: BBO = 9.01-9,03

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
				9,02					
14	14	500		(Midpoint)	9,03	200		6	6
1	1		100	9,01	9,04	500		7	7
				9,01					
				(Market - 0,02)					
12	12	100			9,05	1000		8	8
				9,00					
				(Market - 0,03)					
13	13		200						
2	2		300	8,98					
3	3		200	8,98					

Order #1 is removed. Order #14 is now rounded to a less aggressive price with a new timestamp.

Order book after event:

Bid					Ask				
Order#	Time	Non-display volume	Display volume	Price	Price	Non-Display volume	display volume	Time	Order#
				9,01 (Market -					
12	12	100		0,02)	9,03	200		6	6
				9,01 (Midpoint)					
14	15	500		9,00 (Market -	9,04	500		7	7
				0,03)					
13	13		200	8,98	9,05	1000		8	8
2	2		300	8,98					
3	3		200	8,98					

Appendix E: Example deferred publication table

		Class of shares in terms of average daily turnover (ADT)			
		ADT < EUR 100 000	EUR 100 000 ≤ ADT < EUR 1000 000	EUR 1000 000 ≤ ADT < EUR 50 000 000	ADT ≥ EUR 50 000 000
		Minimum qualifying size of transaction for permitted delay			
Permitted delay for publication	60 minutes	EUR 10 000	Greater of 5%of ADT and EUR 25 000	Lower of 10%of ADT and EUR 3 500 000	Lower of 10%of ADT and EUR 7 500 000
	180 minutes	EUR 25 000	Greater of 15% of ADT and EUR 75 000	Lower of 15%of ADT and EUR 5 000 000	Lower of 20 %of ADT and EUR 15 000 000
		Class of shares in terms of average daily turnover (ADT)			
		ADT < EUR 100 000	EUR 100 000 ≤ ADT < EUR 1000 000	EUR 1000 000 ≤ ADT < EUR 50 000 000	ADT ≥ EUR 50 000 000
		Minimum qualifying size of transaction for permitted delay			
Permitted delay for publication	Until end of trading day(or roll-over to noon of next trading day if trade undertaken in final two hours of trading day)	EUR 45 000	Greater of 25 % of ADT and EUR 100 000	Lower of 25 %of ADT and EUR 10 000 000	Lower of 30 %of ADT and EUR 30 000 000
	Until end of trading day next after trade	EUR 60 000	Greater of 50 % of ADT and EUR 100 000	Greater of 50 % of ADT and EUR 1000 000	100 %
	Until end of second trading day next after trade	EUR 80 000	100 %of ADT	100 %of ADT	250 %of ADT
	Until end of third trading day next after trade		250 %of ADT	250 %of ADT	

Appendix F: Tick size tables

The tick sizes for Equity Instruments are as follows:

Exchange	Category	Tick size
NASDAQ OMX Copenhagen	Equities –OMXC20	
	0 – 0.4999	0.0001
	0.5000 – 0.9995	0.0005
	1.0000 – 4.9990	0.001
	5.0000 – 9.9950	0.005
	10.0000 – 49.990	0.01
	50.0000 – 99.9500	0.05
	100.0000 – 499.9000	0.1
	500.0000 – 999.5000	0.5
	1,000.0000 – 4,999.0000	1.00
	5,000.0000 – 9,995.0000	5.00
	1,0000.0000 -	10.00
	XCSE Equities, DKK (other equities and rights)	
	0.00 - 4.99	0.01
	5.00 - 9.95	0.05
	10.00 – 49.90	0.10
	50.00 – 499.50	0.50
	500.00 – 4,999.00	1.00
	5,000.00 – 19,990.00	10.00
	20,000.00 -	100.00
	Warrants and Certificates	
	0.00 - 4.99	0.01
	5.00 - 9.95	0.05
	10.00 – 49.90	0.10
	50.00 – 499.50	0.50
	500.00 – 4,999.00	1.00
	5,000.00 – 19,990.00	10.00
	20,000.00 -	100.00
	Collective Investment Undertakings DKK	
	0.00 - 49.99	0.01
	50.00 - 99.95	0.05

	100.00 – 9,999.90	0.10
	10,000.00	1.00
	Collective Investment Undertakings	
	EUR/USD	
	0.00 – 1,999.99	0.01
	2,000.00 – 9,999.90	0.10
	10,000.00	1.00
	Equity Rights	
	0.00 – 999.95	0.05
	1,000 – 9,999.75	0.25
	10,000 – 49,999	1.00
NASDAQ OMX Stockholm	Equities – most liquid (OMXS30)	
	0 – 0.4999	0.0001
	0.5000 – 0.9995	0.0005
	1.0000 – 4.9990	0.001
	5.0000 – 9.9950	0.005
	10.0000 – 49.990	0.01
	50.0000 – 99.9500	0.05
	100.0000 – 499.9000	0.1
	500.0000 – 999.5000	0.5
	1,000.0000 – 4,999.0000	1.00
	5,000.0000 – 9,995.0000	5.00
	1,0000.0000 -	10.00
	Equities - others, Equity rights, Equity Warrants and Warrants	
	0.00 - 4.99	0.01
	5.00 - 14.95	0.05
	15.00 – 49.90	0.10
	50.00 – 149.75	0.25
	150.00 – 499.50	0.50
	500.00 – 4,999.00	1.00
	5,000.00 -	5.00
	Certificates	
	Same as for equities or;	
	0.00 – 99.99	0.01
	100.00 – 499.95	0.05
	500.00 –	0.10
	Convertibles	
	Same as for equities or;	
	0.00 - 9.99	0.01
	10.00 - 49.95	0.05
	50.00 – 499.90	0.10
	500.00	0.50
	Units in Funds	

	0.00 - 4.99	0.01
	5.00 - 499.95	0.05
	500.00 - 4,999.00	1.00
	5,000.00 -	5.00
	Unit in Funds (Norwegian)	
	0-4,99	0,01
	5-99,95	0,05
	100-249,90	0,10
	250-499,75	0,25
	500-4999,50	0,50
	5000-	1,00
	Equities – secondary traded equities admitted to trading on Oslo Børs - OBX	
	0.00 - 0.4999	0.0001
	0.5 - 0.9995	0.0005
	1.00 - 4.999	0.001
	5.00 - 9.995	0.005
	10.00 - 49.99	0.01
	50.00 - 99.95	0.05
	100.00 - 499.90	0.10
	500.00 - 999.50	0.50
	1000.00 -4999.00	1.00
	5000.00 -9995.00	5.00
	10 000.00 -	10. 00
	Equities – secondary traded equities admitted to trading on Oslo Børs – others	
	0.00 - 9.99	0.01
	10.00 - 14.95	0.05
	15.00 - 49.90	0.10
	50.00 - 99.75	0.25
	100.00 - 249.50	0.50
	250.00 -	1.00
NASDAQ OMX Iceland	Equities, Collective Investment Undertakings and Units in Funds	
	0.00 - 14.99	0.01
	15.00 - 49.95	0.05
	50.00 - 99.90	0.10
	100.00 - 499.50	0.50
	500 - 4.999	1.00
	5,000.00-	5.00
NASDAQ OMX Helsinki	Equities –OMXH25	
	0 - 0.4999	0.0001
	0.5000 - 0.9995	0.0005

1.0000 – 4.9990	0.001
5.0000 – 9.9950	0.005
10.0000 – 49.990	0.01
50.0000 – 99.9500	0.05
100.0000 – 499.9000	0.1
500.0000 – 999.5000	0.5
1,000.0000 – 4,999.0000	1.00
5,000.0000 – 9,995.0000	5.00
1,0000.0000 -	10.00
All other Equity Instruments	
0.00 -	0.01

Note that if one share series of an issuer qualifies to these indices (OMXC20/ OMXH25/OMXS30) and hence to the FESE tick size table 2, also other share series of that issuer is included. Secondly, if a share has been within the indices (OMXC20/ OMXH25/OMXS30) – and hence is internationally traded on other marketplaces – then these shares will continue to have the FESE tick size table 2 applied even after an index change.

Appendix G: Note Codes

Note-Codes mark the order book to indicate that special conditions occur.

Examples of currently used Note Codes:

Code Name

BP	Excluding comb. Bonus issue & Split
BR	Company Bankruptcy
BS	Excluding comb. Bonus & Split
CS	Cent shares
OB	On the surveillance list
PO	Company subject to public offer
RL	Removal from listing in process
RS	Reversed Split
SL	Other surveillance list reason
SP	Excluding participating in split
SR	Excluding comb. split and issue right/s
SS	Excluding comb. Split & Redemption share
SU	Suspension
TO	A significant reverse take-over pending
UL	Unlisted
WI	When Issued
XD	Excluding dividend
XR	Excluding participating in right/s

Appendix H: Combinations of Order Types, attributes, session and time-in-force

The following tables show the combinations of order types, attributes and time-in-force conditions. They should be read in combination with the order descriptions in Chapter 6.

NB. Where Types are shown with Time criteria, the table indicates whether the order types will participate in the Call or Continuous Trading (i.e. not whether the order types are available to be entered in Call or Continuous Trading).

All attributes are available for Limit orders. Only minimum quantity may be used with Market orders. No attribute can be applied to Imbalance orders.

Attributes and Types

	Limit	Market	Imbalance
Reserve	x		
Pegged	x		
Minimum quantity	x	x	
Non-display	x		

All order types are possible in Calls. In Continuous trading only Limit and Market orders are possible.

Types and Session

	Call	Continuous trading
Limit	x	x
Market	x	x
Imbalance	x	

All time-in-force conditions are available for both Calls and Continuous trading. The time-in-force condition will be activated when matching is active, i.e. in the call it is during the uncross and in continuous trading is it for the duration of the session except in the case of a halt.

Time-in-force and Session

	Call	Continuous trading
Immediate or Cancel	x	x
Good-till-market close	x	x
Good-till-cancelled	x	x
Good-till-time	x	x

Only the Reserve and Non-display attributes are available in Calls. During Continuous trading, all attributes may be used.

Attribute and Session

	Call	Continuous trading
Reserve	x	x
Pegged		x
Minimum quantity		x
Non-display	x	x

Minimum quantity is the only attribute allowed with the Time-in-force condition IOC. All other attributes are allowed with all other Time-in-force conditions.

Attribute and Time-in-force

	Immediate or Cancel	Good-till-market close	Good-till-cancelled	Good-till-time
Reserve		x	x	x
Pegged		x		x
Minimum quantity	x			
Non-display		x	x	x

All time-in-force conditions are allowed for Limit orders. Market orders and Imbalance orders must be IOC.

Time-in-force and Type

	Limit	Market	Imbalance
Immediate or Cancel	x	x	x
Good-till-market close	x		
Good-till-cancelled	x		
Good-till-time	x		

In the tables above, 'x' indicates that the combination is allowed, blanks indicate that the combination is not allowed or that the combination is immediately cancelled without noting the validity condition.

The time-in-force criterion only has an effect when the matching process is active. During a call, this means that the time-in-force criterion will be applied during the uncross, not during pre-open. E.g. if an order is entered during the pre-open with good-till-time X and the uncross happens after X, the order will be cancelled before the uncross. If an order is entered during the pre-open with time-in-force immediate-or-cancel, the order will participate in the uncross and any unfilled part of it will be cancelled after the uncross.

Appendix I: Non-trading days and half day trading

Non trading days per country (even them that fall into a week-end are presented):

Country	Weekday	Date	Holiday
DK	Friday	2010-01-01	New Years Day (Jan. 1st)
DK	Sunday	2010-03-28	Palm Sunday (Sunday before Easter)
DK	Thursday	2010-04-01	Maudy Thursday (Thursday before Easter)
DK	Friday	2010-04-02	Good Friday (Friday before Easter)
DK	Sunday	2010-04-04	Easter (Sunday)
DK	Monday	2010-04-05	Easter Monday
DK	Friday	2010-04-30	Prayer Day (26 days after Easter)
DK	Thursday	2010-05-13	Ascension (39 days after Easter)
DK	Friday	2010-05-14	Bank holiday
DK	Sunday	2010-05-23	Whit Sunday (49 days after Easter)
DK	Monday	2010-05-24	Whit Monday (day after Pentecost)
DK	Saturday	2010-06-05	Constitution Day (June 5th)
DK	Friday	2010-12-24	Christmas Eve (Dec. 24th)
DK	Saturday	2010-12-25	Christmas Day (Dec. 25th)
DK	Sunday	2010-12-26	Boxing Day (Dec. 26th)
DK	Friday	2010-12-31	New Years Eve (Dec. 31st)
EE	Friday	2010-01-01	New Years Day (Jan. 1st)
EE	Wednesday	2010-02-24	Independence Day (Feb. 24th)
EE	Friday	2010-04-02	Good Friday (Friday before Easter)
EE	Sunday	2010-04-04	Easter (Sunday)
	Monday	2010-04-05	Easter Monday
EE	Saturday	2010-05-01	Spring Day (May 1st)
	Thursday	2010-05-13	Ascension Day
EE	Sunday	2010-05-23	Whit Sunday (49 days after Easter)
EE	Wednesday	2010-06-23	Victory Day (Jun. 23rd)
EE	Thursday	2010-06-24	St Johns Day (Jun. 24th)
EE	Friday	2010-08-20	Day of Restoration of Independence (Aug. 20th)
EE	Friday	2010-12-24	Christmas Eve (Dec. 24th)
EE	Saturday	2010-12-25	Christmas Day (Dec. 25th)
EE	Sunday	2010-12-26	Boxing Day (Dec. 26th)
EE	Friday	2010-12-31	New Years Eve
FI	Friday	2010-01-01	New Years Day (Jan. 1st)
FI	Wednesday	2010-01-06	Epiphany (Jan. 6th)
FI	Friday	2010-04-02	Good Friday (Friday before Easter)
FI	Sunday	2010-04-04	Easter (Sunday)
FI	Monday	2010-04-05	Easter Monday
FI	Saturday	2010-05-01	May Day (May 1st)

FI	Thursday	2010-05-13	Ascension (39 days after Easter)
FI	Sunday	2010-05-23	Pentecost (49 days after Easter)
FI	Friday	2010-06-25	Midsummer Eve (day before Midsummer)
FI	Saturday	2010-06-26	Midsummer Day (Saturday after Jun. 19th)
FI	Saturday	2010-11-06	All Saints Day (Saturday after Oct. 30th)
FI	Monday	2010-12-06	Independence Day (Dec. 6th)
FI	Friday	2010-12-24	Christmas Eve (Dec. 24th)
FI	Saturday	2010-12-25	Christmas Day (Dec. 25th)
FI	Sunday	2010-12-26	Boxing Day (Dec. 26th)
FI	Friday	2010-12-31	New Years Eve (Dec. 31st)
IS	Friday	2010-01-01	New Years Day (Jan. 1st)
IS	Thursday	2010-04-01	Maudy Thursday (Thursday before Easter)
IS	Friday	2010-04-02	Good Friday (Friday before Easter)
IS	Sunday	2010-04-04	Easter (Sunday)
IS	Monday	2010-04-05	Easter Monday
IS	Thursday	2010-04-22	First Day of Summer (Thursday after Apr. 18th)
IS	Saturday	2010-05-01	International Labor Day (May 1st)
IS	Thursday	2010-05-13	Ascension (39 days after Easter)
IS	Sunday	2010-05-23	Pentecost (49 days after Easter)
IS	Monday	2010-05-24	Whit Monday (day after Pentecost)
IS	Thursday	2010-06-17	National Day (Jun. 17th)
IS	Monday	2010-08-02	Commerce Day (First Monday in Aug.)
IS	Friday	2010-12-24	Christmas Eve (Dec. 24th)
IS	Saturday	2010-12-25	Christmas Day (Dec. 25th)
IS	Sunday	2010-12-26	Boxing Day (Dec. 26th)
IS	Friday	2010-12-31	New Years Eve (Dec. 31st)
LT	Friday	2010-01-01	New Years Day (Jan. 1st)
LT	Monday	2010-02-15	Non-Business day
LT	Tuesday	2010-02-16	Independence Day (Feb. 16th)
LT	Thursday	2010-03-11	Restoration of Independence (Mar. 11th)
LT	Friday	2010-03-12	Non-Business day
LT	Friday	2010-04-02	Good Friday (Friday before Easter)
LT	Sunday	2010-04-04	Easter (Sunday)
LT	Monday	2010-04-05	Easter Monday
LT	Saturday	2010-05-01	International Labor Day (May 1st)
LT	Sunday	2010-05-02	Mothers Day (First Sunday in May)
LT	Thursday	2010-05-13	Ascension Day
LT	Thursday	2010-06-24	Midsummer Festival (Jun. 24th)
LT	Friday	2010-06-25	Non-Business day
LT	Monday	2010-07-05	Non-Business day
LT	Tuesday	2010-07-06	Coronation of Mindaugas, King of Lithuania (Jul. 6th)
LT	Sunday	2010-08-15	Assumption Day (Aug. 15th)
LT	Monday	2010-11-01	All Saints Day (Nov. 1st)

LT	Friday	2010-12-24	Christmas Eve
LT	Saturday	2010-12-25	Christmas Day (Dec. 25th)
LT	Sunday	2010-12-26	Boxing Day (Dec. 26th)
LT	Friday	2010-12-31	New Years Eve
LV	Friday	2010-01-01	New Years Day (Jan. 1st)
LV	Friday	2010-04-02	Good Friday (Friday before Easter)
LV	Sunday	2010-04-04	Easter (Sunday)
LV	Monday	2010-04-05	Easter Monday
LV	Saturday	2010-05-01	International Labor Day, Convocation of the Constituent Assembly of the Republic (May 1st)
LV	Monday	2010-05-03	Non-Business day
LV	Tuesday	2010-05-04	Declaration of Independence Day (May 4th)
LV	Thursday	2010-05-13	Ascension day
LV	Wednesday	2010-06-23	Midsummer Day (Jun. 23rd)
LV	Thursday	2010-06-24	St Johns Day (Jun. 24th)
LV	Friday	2010-06-25	Non-Business day
LV	Thursday	2010-11-18	Proclamation of the Republic (Nov. 18th)
LV	Friday	2010-11-19	Non-Business day
LV	Friday	2010-12-24	Christmas Eve (Dec. 24th)
LV	Saturday	2010-12-25	Christmas Day (Dec. 25th)
LV	Sunday	2010-12-26	Boxing Day (Dec. 26th)
LV	Friday	2010-12-31	New Years Eve (Dec. 31st)
NO	Friday	2010-01-01	New Years Day (Jan. 1st)
NO	Sunday	2010-03-28	Palm Sunday (Sunday before Easter)
NO	Thursday	2010-04-01	Maudy Thursday (Thursday before Easter)
NO	Friday	2010-04-02	Good Friday (Friday before Easter)
NO	Sunday	2010-04-04	Easter (Sunday)
NO	Monday	2010-04-05	Easter Monday
NO	Saturday	2010-05-01	Labor Day (May 1st)
NO	Thursday	2010-05-13	Ascension (39 days after Easter)
NO	Monday	2010-05-17	Constitution Day (May 17th)
NO	Sunday	2010-05-23	Pentecost (49 days after Easter)
NO	Monday	2010-05-24	Whit Monday (day after Pentecost)
NO	Friday	2010-12-24	Christmas Eve (Dec. 24th)
NO	Saturday	2010-12-25	Christmas Day (Dec. 25th)
NO	Sunday	2010-12-26	Boxing Day (Dec. 26th)
NO	Friday	2010-12-31	New Years Eve (Dec. 31st)
SE	Friday	2010-01-01	New Years Day (Jan. 1st)
SE	Wednesday	2010-01-06	Epiphany (Jan. 6th)
SE	Friday	2010-04-02	Good Friday (Friday before Easter)
SE	Sunday	2010-04-04	Easter (Sunday)
SE	Monday	2010-04-05	Easter Monday
SE	Saturday	2010-05-01	International Labor Day (May 1st)

SE	Thursday	2010-05-13	Ascension (39 days after Easter)
SE	Sunday	2010-05-23	Pentecost (49 days after Easter)
SE	Sunday	2010-06-06	National Day (Jun. 6th)
SE	Friday	2010-06-25	Midsummer Eve (day before Midsummer)
SE	Saturday	2010-06-26	Midsummer Day (Saturday after Jun. 19th)
SE	Saturday	2010-11-06	All Saints Day (Saturday after Oct. 30th)
SE	Friday	2010-12-24	Christmas Eve (Dec. 24th)
SE	Saturday	2010-12-25	Christmas Day (Dec. 25th)
SE	Sunday	2010-12-26	Boxing Day (Dec. 26th)
SE	Friday	2010-12-31	New Years Eve (Dec. 31st)

Half days (Pre-close CET 12.55, Closing auction at CET 13.00):

SE	2010-01-05
SE	2010-04-01
SE	2010-04-30
SE	2010-05-12
SE	2010-11-05
NO	2010-03-31

Appendix J – Official closing prices

The official closing prices and turnover figures are distributed via Genium Consolidated Feed (GCF). Information, in the form of an Order book summary message is sent out at one or two distinct state changes on INET depending on configuration.

Official closing price: Official closing price = Last price. Last price is normally the auction price. In event of no closing auction the last official price update during continuous trading

Turnover: Turnover including manual trades

Trade reporting can be done during Post-trade up until state closed. Those volumes will update Turnover but not last price.

Configuration in GCF:

	Official closing price sent out at state change to	Turnover sent out at state change to
Copenhagen	Closed	Closed
Helsinki	Post trade*	Closed
Iceland	Post trade*	Closed
Riga	Post trade*	Closed
Stockholm	Post trade*	Closed
Tallinn	Post trade*	Closed
Vilnius	Post trade*	Closed

* Trade cancellations done after moving into Post trade will not be taken into consideration. A cancellation of an entire auction is unlikely. It is also very unlikely that a cancel of the last trade during continuous trading happens in combination with no auction.

In all markets except Copenhagen two order book summary messages will be sent out, The first one when moving into Post trade with the information on closing price, and a second when moving into Closed where Turnover is presented.

Appendix K – Trading statistics

Automatically matched trades updates:

- Turnover
- Average price
- Last price
- High/low

Reported trades with Trade Type "Standard Trade" updates:

- Turnover
- Average price (if date of agreement is the current day and if the order book is in continuous trading state and price is within the current public BBO available within the Genium Market Information (GMI) system)
- Last paid price and High/Low price if date of agreement is the current day and if order book is in continuous trading and price is at or within the current BBO available within the GMI system, and the trade is the youngest trade

Reported trades with Trade Type "Derivative Related Transaction", "Portfolio Trade", "Volume Weighted Average Price", "Exchange Granted Trade", "Pre-Opening Trade" and "Non-Standard Settlement" updates:

- Turnover

OTC and SI trades of Trade Type "OTC Trade", "OTC Non-Standard", "SI Standard" and "SI Non-Standard" updates:

- No trade statistics