



S&P Capital IQ Real-Time Solutions

FeedOS™ Feed Description

OMX NORDIC CASH

Reference n°: 20150805 – 26448 – 28048 – 28189

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FEEDOS™ OMX NORDIC CASH FEED DESCRIPTION

As part of the S&P Capital IQ Real-Time Solutions FeedOS™ documentation, this feed description provides you with details about the types of data disseminated on the OMX NORDIC CASH market data stream, their possible values and current FeedOS technical implementation.

The topics this feed description covers include:

- [1. Referential Data](#)
- [2. Quotation Data](#)
- [3. Official Closing Price](#)
- [4. Special Behavior](#)
- [5. Finding the Latest Information.](#)

1. Referential Data

The following sections describe the characteristics of the referential data on the OMX NORDIC CASH market data stream, in terms of:

- [1.1. Available Markets and Branches](#)
- [1.2. Types of Instruments](#)
- [1.3. Specific Referential Tags.](#)

1.1. Available Markets and Branches

This section details the list of [Markets](#) and [Branches](#) available on the OMX NORDIC CASH market data stream.

1.1.1. Markets

The OMX NORDIC CASH market data stream disseminates informations about the following markets:

Table 1 List of markets available on the OMX NORDIC CASH market data stream

FeedOS Market ID	Market
XCSE	Copenhagen Stock Exchange
XHEL	Helsinki Stock Exchange
XICE	Reykjavik Stock Exchange
XOSL	Oslo Bors
ISEC	Reykjavik Stock Exchange - ICEX Second Market
XSTO	Stockholm – OMX Nordic Exchange
XOPV	OMX OTC Publication Venue
XFND	Copenhagen – First North Denmark
XSAT	Stockholm – Aktietorget
FNSE	Stockholm – First North Stockholm
FNFI	Helsinki – First North Finland

The following example shows the list of markets available on the OMX NORDIC CASH market data stream and their IDs, returned by the command dumps:

```
MARKETS
market # 67      CC=DK/DENMARK/COPENHAGEN,DESCR=COPENHAGEN STOCK EXCHANGE,WEB=www.cse.dk
MIC = XCSE
TimeZone =
Country =
NbMaxInstruments = 1000000
market # 76      CC=FI/FINLAND/HELSINKI,DESCR=THE HELSINKI STOCK EXCHANGE,WEB=www.hex.com
MIC = XHEL
TimeZone =
Country =
NbMaxInstruments = 1000000
market # 113     CC=IS/ICELAND/REYKJAVIK,DESCR=ICELAND STOCK EXCHANGE,WEB=www.icex.is
MIC = XICE
TimeZone =
Country =
NbMaxInstruments = 1000000
market # 187     CC=NO/NORWAY/OLSO,DESCR=OSLO BORS,WEB=www.ose.no
MIC = XOSL
TimeZone = Europe/Oslo
Country = NO
NbMaxInstruments = 2000000
market # 379     CC=IS/ICELAND/REYKJAVIK,DESCR=ISEC (ICEX SECOND MARKET),WEB=www.isec.is
MIC = ISEC
TimeZone =
Country =
NbMaxInstruments = 1000000
market # 430     CC=SE/SWEDEN/STOCKHOLM,DESCR=OMX NORDIC EXCHANGE STOCKHOLM AB,WEB=
MIC = XSTO
TimeZone =
Country =
NbMaxInstruments = 1000000
```

(see next page)

MARKETS CONTINUED

```
market # 440    CC=SE/SWEDEN/STOCKHOLM,DESCR=OMX OTC PUBLICATION VENUE,WEB=www.omxgroup.com
    MIC = XOPV
    TimeZone = Europe/Stockholm
    Country = SE
    NbMaxInstruments = 2000000
market # 441    CC=DK/DENMARK/COPENHAGEN,DESCR=FIRST NORTH DENMARK,WEB=www.omxgroup.com/
firstnorth
    MIC = XFND
    TimeZone =
    Country =
    NbMaxInstruments = 1000000
market # 442    CC=SE/SWEDEN/STOCKHOLM,DESCR=AKTIETORGET,WEB=www.actietorget.se
    MIC = XSAT
    TimeZone =
    Country =
    NbMaxInstruments = 1000000
market # 443    CC=SE/SWEDEN/STOCKHOLM,DESCR=FIRST NORTH STOCKHOLM,WEB=www.omxgroup.com/
firstnorth
    MIC = FNSE
    TimeZone =
    Country =
    NbMaxInstruments = 1000000
market # 492    CC=FI/FINLAND/HELSINKI,DESCR=FIRST NORTH
FINLAND,WEB=www.omxnordicexchange.com/firstnorth
    MIC = FNFI
    TimeZone =
    Country =
    NbMaxInstruments = 1000000
```

1.1.2. Branches

The example below shows the list of branches available on the OMX NORDIC CASH market data stream, returned by the command dumps. Each branch displays the following details: FOSMarketID, SecurityType, CFICode and Quantity (of instruments):

```
BRANCHES
{ XCSE CS ESXXXX } qty: 171
{ XCSE NONE EXXXXX } qty: 2
{ XCSE NONE RMXXXX } qty: 586
{ XCSE WAR RWXXXX } qty: 181
{ XHEL CS ESXXXX } qty: 159
{ XHEL MF EUXXSX } qty: 1
{ XHEL NONE RMXXXX } qty: 59
{ XHEL WAR RWXXXX } qty: 3762
{ XHEL XCN RWXXXX } qty: 2
{ XICE CORP DBXXXX } qty: 127
{ XICE CS ESXXXX } qty: 18
{ XICE GO DBXXXX } qty: 107
{ XICE MF EUXXSX } qty: 2
{ XICE NONE RMXXXX } qty: 9
{ ISEC CS ESXXXX } qty: 4
{ XSTO CB DCXXXX } qty: 9
{ XSTO CS ESXXXX } qty: 383
{ XSTO MF EUXXSX } qty: 56
{ XSTO NONE RMXXXX } qty: 95
{ XSTO WAR RWXXXX } qty: 13020
{ XSTO XCN RWXXXX } qty: 1
{ XFND CS ESXXXX } qty: 15
{ XSAT CB DCXXXX } qty: 3
{ XSAT CS ESXXXX } qty: 359
{ XSAT GO DBXXXX } qty: 1
{ XSAT NONE RMXXXX } qty: 1
{ XSAT WAR RWSXXX } qty: 1
{ FNSE CS ESXXXX } qty: 552
{ FNSE NONE RMXXXX } qty: 1
{ FNFI CS ESXXXX } qty: 17
```

1.2. Types of Instruments

The following sections describe the instruments available on the OMX NORDIC CASH market data stream, according to their type:

- [1.2.1. Equities](#)
- [1.2.2. Bonds](#)
- [1.2.3. Rights](#)
- [1.2.4. Warrants.](#)

1.2.1. Equities

The sample below illustrates the details of an equity:

```
instr # 430/1010 = 901776370
  PriceCurrency      string{SEK}
  Symbol             string{ATCO A}
  Description         string{Atlas Copco AB ser. A}
  SecurityType        string{CS}
  FOSMarketId        XSTO
  CFICode             string{ESXXXX}
  RoundLot           float64{1}
  MarketSegmentID    string{182}
  MarketSegmentDesc   string{STO Equities CCP}
  InternalCreationDate Timestamp{2013-12-17 04:00:00:264}
  InternalModificationDate Timestamp{2015-08-05 05:05:10:591}
  InternalSourceId    uint16{67}
  InternalEntitlementId int32{1062}
  LocalCodeStr        string{45}
  ISIN                string{SE0006886750}
  PriceIncrement_dynamic_TableId uint32{4391026}
  OperatingMIC         string{XSTO}
  CCP_Eligible         bool{True}
```

1.2.2. Bonds

The sample below illustrates the details of a bond:

```
instr # 113/1084 = 236979260
  PriceCurrency      string{ISK}
  Symbol             string{VOP 98 1}
  Description         string{Vopnafjarðarhreppur 98 1}
  SecurityType        string{CORP}
  StdMaturity         string{201902}
  FOSMarketId        XICE
  CFICode             string{DBXXXX}
  RoundLot           float64{5000000}
  MarketSegmentID    string{24}
  MarketSegmentDesc   string{OMX ICE DP Fixed Income}
  InternalCreationDate Timestamp{2013-12-17 04:00:00:331}
  InternalModificationDate Timestamp{2015-08-05 05:05:10:605}
  InternalSourceId    uint16{67}
  InternalEntitlementId int32{1062}
  LocalCodeStr        string{10669}
  ISIN                string{IS00000004018}
  MaturityYear        uint16{2019}
  MaturityMonth        uint8{2}
  MaturityDay         uint8{15}
  PriceIncrement_dynamic_TableId uint32{4391020}
  OperatingMIC         string{XICE}
  CCP_Eligible         bool{False}
```


1.2.3. Rights

The sample below illustrates the details of a right:

```
instr # 430/1004 = 901776364
  PriceCurrency      string{SEK}
  Symbol             string{BILI TO 1A}
  Description         string{Bilia AB ser. A TO 1A}
  SecurityType        string{NONE}
  StdMaturity         string{201512}
  StrikePrice         float64{10}
  FOSMarketId         XSTO
  ContractMultiplier float64{1}
  CFICode             string{RMXXX}
  RoundLot            float64{1}
  MarketSegmentID     string{1}
  MarketSegmentDesc   string{OMX STO Eq.rights\,Subs.Opt\, Int. shares}
  InternalCreationDate Timestamp{2013-12-17 04:00:00:487}
  InternalModificationDate Timestamp{2015-08-05 05:05:10:619}
  InternalSourceId     uint16{67}
  InternalEntitlementId int32{1062}
  LocalCodeStr         string{62533}
  ISIN                string{SE0002694497}
  MaturityYear         uint16{2015}
  MaturityMonth        uint8{12}
  MaturityDay          uint8{28}
  PriceIncrement_dynamic_TableId uint32{4391040}
  OperatingMIC          string{XSTO}
  CCP_Eligible          bool{False}
```

1.2.4. Warrants

The sample below illustrates the details of a warrant:

```
instr # 430/5472 = 901780832
  PriceCurrency      string{SEK}
  Symbol             string{KB DJEU50UBS}
  Description         string{Dow Jones Eurostoxx 50 KO (EUR 0\,01)}
  SecurityType        string{WAR}
  StrikePrice         float64{0.01}
  FOSMarketId         XSTO
  ContractMultiplier float64{100}
  CFICode             string{RWXXX}
  RoundLot            float64{1}
  MarketSegmentID     string{160}
  MarketSegmentDesc   string{OMX STO Certificates}
  InternalCreationDate Timestamp{2013-12-17 04:00:00:460}
  InternalModificationDate Timestamp{2015-08-05 05:05:10:615}
  InternalSourceId     uint16{67}
  InternalEntitlementId int32{1062}
  LocalCodeStr         string{52903}
  ISIN                string{CH0021115669}
  PriceIncrement_dynamic_TableId uint32{4391012}
  OperatingMIC          string{XSTO}
  CCP_Eligible          bool{False}
```

1.3. Specific Referential Tags

The following sections describe specific referential tags available on the OMX NORDIC CASH market data stream:

- [1.3.1. MarketSegmentID](#)
- [1.3.2. CCP_Eligible](#)

1.3.1. MarketSegmentID

The values of the referential tag **MarketSegmentID** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Referential* to detail the ID of the market segment.

FeedOS implementation of the tag MarketSegmentID is described below:

Table 2 MarketSegmentID – technical implementation in FeedOS

Component	Value	Description
Tag Name	MarketSegmentID	FeedOS tag name.
Numeric ID	1300	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , detailing the ID of the market segment.
Possible Values	1	OMX STO Eq. Rights, Subs. Opt. Int. Shares
	2	OMX STO Equities
	3	OMX STO Convertibles
	4	OMX STO Warrants
	8	First North STO
	14	OMX CPH Equities
	16	OMX CPH Investment Funds
	17	OMX STO Fund units
	18	MM Aktietorget-cotr
	23	OMX ICE Equities
	24	OMX ICE DP Fixed Income
	26	OMX ICE Collective Investm. Undertakings
	52	OMX ICE CP Fixed Income
	55	First North Convertibles STO
	62	OMX HEL Equities
	63	OMX HEL Equity rights
	64	OMX HEL Covered Warrants
	69	OMX HEL Fund units
	85	OMX ICE Fund units
	100	First North
	101	First North Iceland
	104	OMX CPH Other Collective Investments
	110	First North Finland

Table 2 MarketSegmentID – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	157	OMX HEL Exchange Traded Notes
	158	OMX STO Exchange Traded Notes
	159	OMX HEL Certificates
	160	OMX STO Certificates
	176	MM Aktietorget Conv
	180	OMX STO Equities NOK
	181	OMX HEL Equities CCP
	182	OMX STO Equities CCP
	183	OMX CPH Equities CCP
	185	OMX STO Fund units NOK
	195	First North NOK
	196	OMX CPH Exchange Traded Notes
	198	RänteTorget Bonds SEK
	199	OMX HEL Actively-Managed Funds
	200	OMX STO Actively-Managed Funds
	201	OMX HEL Equities intraday cross CCP
	202	OMX STO Equities intraday cross

1.3.2. CCP_Eligible

The values of the referential tag **CCP_Eligible** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Referential* to specify whether an instrument is cleared via the CCP or not.

FeedOS implementation of tag CCP_Eligible is described in the table below:

Table 3 CCP_Eligible – technical implementation in FeedOS

Component	Value	Description
Tag Name	CCP_Eligible	FeedOS tag name.
Numeric ID	9552	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Bool	Bool data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , detailing whether an instrument is cleared via the CCP.
Possible Values	True	CCP eligibility and post trade anonymity.
	False	Default value, not sent.

2. Quotation Data

The following sections describe the characteristics of the quotation data on the OMX NORDIC CASH market data stream, in terms of:

- [2.1. Quotation Values](#)

- [2.2. TradingStatus](#)
- [2.3. Specific Quotation Tags](#)
- [2.4. MBL and MBO Data.](#)

2.1. Quotation Values

The example below shows the possible values of an instrument on the OMX NORDIC CASH market data stream:

```
InstrumentStatusL1
-- 430/1278
    BID: 60 26776    @11
    ASK: 60.05      59149    @11
    LastPrice                float64{60.05}
    LastTradeQty              float64{2000}
    DailyHighPrice            float64{60.55}
    DailyLowPrice             float64{60}
    DailyTotalVolumeTraded    float64{329581}
    DailyTotalAssetTraded     float64{19855356.65}
    LastTradePrice            float64{60.05}
    LastTradeTimestamp         Timestamp{2015-08-05 09:35:36:316}
    InternalDailyOpenTimestamp Timestamp{2015-08-05 07:00:00:202}
    InternalDailyCloseTimestamp Timestamp{2015-08-04 15:29:59:059}
    InternalDailyHighTimestamp Timestamp{2015-08-05 07:14:38:174}
    InternalDailyLowTimestamp  Timestamp{2015-08-05 08:06:59:976}
    InternalPriceActivityTimestamp Timestamp{2015-08-05 09:36:20:578}
    TradingStatus              17=ReadyToTrade
    LastOffBookTradePrice      float64{60.2}
    LastOffBookTradeQty        float64{30}
    LastOffBookTradeTimestamp  Timestamp{2015-08-04 14:19:36}
    DailyOpeningPrice          float64{60.35}
    PreviousDailyTotalVolumeTraded float64{1039033}
    PreviousDailyTotalAssetTraded float64{62656272.1}
    PreviousDailyClosingPrice  float64{60.15}
    PreviousBusinessDay        Timestamp{2015-08-04}
    CurrentBusinessDay         Timestamp{2015-08-05}
    LastAuctionPrice           float64{60.4}
    LastAuctionVolume          float64{457}
    DailyTotalOffBookVolumeTraded float64{0}
    DailyTotalOffBookAssetTraded float64{0}
    LastAuctionImbalanceSide   char{S}
    LastAuctionImbalanceVolume float64{4583}
    InternalDailyClosingPriceType char{e}
    Footnotes                  string{0}
    InternalLastAuctionTimestamp Timestamp{2015-08-05 06:59:57:035}
    MARKET_OMX_NORDIC_MarketSegmentState string{T}
    MARKET_OMX_NORDIC_OrderBookTradingState string{T}
    MARKET_OMX_NORDIC_OrderBookHaltReason string{}
```

For more details about the fields and tags available in quotation data type, and their possible values, see *FeedOS Quotation Tags Guide*.

2.2. TradingStatus

Each time a modification of the trading status occurs, the values of the quotation tag **TradingStatus** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values*:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **TradingStatus** is described in the following table:

Table 4 TradingStatus – technical implementation in FeedOS

Component	Value	Description
Tag Name	TradingStatus	FeedOS tag name.
Numeric ID	9100	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Enum	Enum data type.
Format	<i>[Exchange Specific value]</i>	An exchange specific value , detailing the characteristics of the trading status. For more details about Trading Status Kinematics, see also section 4.1. Management of the Trading Status Kinematics .
Possible Values	2	Trading Halt
	5	Price Indication
	15	New Price Indication
	17	Ready to Trade
	18	Not Available for Trading
	21	Pre-Open

2.3. Specific Quotation Tags

The following sections describe the specific quotation tags available on the OMX NORDIC CASH market data stream:

- [2.3.1. Trade Conditions](#)
- [2.3.2. Other Values.](#)

2.3.1. Trade Conditions

The following subsections describe the trade conditions available on the OMX NORDIC CASH market data stream:

- [2.3.1.1. TradeID](#)
- [2.3.1.2. MARKET_OMX_NORDIC_OrderReferenceNumber](#)
- [2.3.1.3. MARKET_OMX_NORDIC_TradeType](#)
- [2.3.1.4. MARKET_OMX_NORDIC_NumberOfTrades](#)
- [2.3.1.5. MARKET_OMX_NORDIC_CrossType](#)
- [2.3.1.6. MARKET_OMX_NORDIC_ReportedTradeType.](#)

2.3.1.1. TradeID

Each time a trade occurs, the values of the quotation tag **TradeID** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context* to detail the trade identifier:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **TradeID** is described in the table below:

Table 5 TradeID – technical implementation in FeedOS

Component	Value	Description
Tag Name	TradeID	FeedOS tag name.
Numeric ID	1003	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format / Possible values	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the trade identifier.

2.3.1.2. MARKET_OMX_NORDIC_OrderReferenceNumber

Each time an order is given, the values of the quotation tag **MARKET_OMX_NORDIC_OrderReferenceNumber** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context*:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **MARKET_OMX_NORDIC_OrderReferenceNumber** is described in the table below:

Table 6 MARKET_OMX_NORDIC_OrderReferenceNumber – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_OrderReferenceNumber	FeedOS tag name.
Numeric ID	16100	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	UInt32	UInt32 data type.
Format / Possible Values	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the order reference number.

2.3.1.3. MARKET_OMX_NORDIC_TradeType

Each time a trade occurs, the values of the quotation tag **MARKET_OMX_NORDIC_TradeType** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context* to identify the type of trade:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#

- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **MARKET_OMX_NORDIC_TradeType** is described in the table below:

Table 7 MARKET_OMX_NORDIC_TradeType – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_TradeType	FeedOS tag name.
Numeric ID	16101	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange Specific Value]</i>	An <i>exchange specific value</i> , detailing the trade type.
Possible Values	B	Main Book
	S	Nordic@Mid

2.3.1.4. MARKET_OMX_NORDIC_NumberOfTrades

Each time a trade occurs, the values of the quotation tag **MARKET_OMX_NORDIC_NumberOfTrades** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context* to detail the number of trades:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **MARKET_OMX_NORDIC_NumberOfTrades** is described in the table below:

Table 8 MARKET_OMX_NORDIC_NumberOfTrades – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_NumberOfTrades	FeedOS tag name.
Numeric ID	16102	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	UInt32	UInt32 data type.
Format / Possible Values	<i>[Exchange Specific Value]</i>	An <i>exchange specific value</i> , detailing the number of trades.

2.3.1.5. MARKET_OMX_NORDIC_CrossType

Each time a cross trade occurs, the values of the quotation tag **MARKET_OMX_NORDIC_CrossType** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context* to indicate the cross trade type:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#

- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag `MARKET_OMX_NORDIC_CrossType` is described in the table below:

Table 9 MARKET_OMX_NORDIC_CrossType – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_CrossType	FeedOS tag name.
Numeric ID	16103	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange Specific Value]</i>	An <i>exchange specific value</i> , detailing the cross trade type.
Possible Values	I	Scheduled Intraday Auction
	O	Opening Cross
	C	Closing Cross
	H	Cross Halted for Securities

2.3.1.6. MARKET_OMX_NORDIC_ReportedTradeType

Each time a trade occurs, the values of the quotation tag `MARKET_OMX_NORDIC_ReportedTradeType` conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Context* to indicate the reported trade type:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag `MARKET_OMX_NORDIC_ReportedTradeType` is described in the table below:

Table 10 MARKET_OMX_NORDIC_ReportedTradeType – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_ReportedTradeType	FeedOS tag name.
Numeric ID	16104	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange Specific Value]</i>	An <i>exchange specific value</i> , detailing the reported trade type.
Possible Values	1	Regular
	2	Non-standard Settlement
	3	Exchange Granted Trade
	4	Weighted Average Price Trade
	5	Portfolio Trade
	6	Volume Weighted Average Trade
	7	Derivative Related Transaction
	8	Pre-opening Trade
	9	OTC

Table 10 MARKET_OMX_NORDIC_ReportedTradeType – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	A	OTC Non-standard
	B	SI Standard
	C	SI Non-standard
	D	Regular, OX Routed

2.3.2. Other Values

The following subsections describe other specific quotation tags on OMX NORDIC CASH market data stream:

- [2.3.2.1. InternalDailyClosingPriceType](#)
- [2.3.2.2. Footnotes](#)
- [2.3.2.3. MARKET_OMX_NORDIC_MarketSegmentState](#)
- [2.3.2.4. MARKET_OMX_NORDIC_OrderBookTradingState](#)
- [2.3.2.5. MARKET_OMX_NORDIC_OrderBookHaltReason.](#)

2.3.2.1. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the type of the internal daily closing price:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag `InternalDailyClosingPriceType` is described in the table below (the values currently disseminated are highlighted in **green**):

Table 11 InternalDailyClosingPriceType – technical implementation in FeedOS

Component	Value	Description
Tag Name	InternalDailyClosingPriceType	FeedOS tag name.
Numeric ID	9155	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Internal Specific Value]</i>	An <i>internal specific value</i> , detailing the type of daily closing price, as described below.

Table 11 InternalDailyClosingPriceType – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	0	Undefined
	a	Official Close – Explicit closing price value calculated and distributed by an exchange for the main trading session of a given trading day.
	b	Official Indicative – Exchange has provided an indicative price and marked it as indicative, however no trading activity is observed.
	c	Official Carry Over – Explicit Closing price value from a previous trading day carried forward by the exchange to the given trading day.
	d	Last Price – Final price disseminated by the exchange for the main trading session or dissemination period of a given trading day (for indices).
	e	Last Eligible Price – Execution price of the final trade (subject to trade qualifiers) accepted by the exchange for the main trading session of a given trading day.
	z	Manual – Price disseminated manually (in case of production correction).

2.3.2.2. Footnotes

The values of the quotation tag **Footnotes** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values* to indicate Note Codes:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag Footnotes is described in the table below:

Table 12 Footnotes – technical implementation in FeedOS

Component	Value	Description
Tag Name	Footnotes	FeedOS tag name.
Numeric ID	9227	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	Char data type.
Format	<i>[Exchange Specific Value]</i>	<p>An exchange specific value, detailing Note Codes.</p> <p>NOTE: This field is a decimal encoded bit field where multiple Note Codes can be set concurrently by being binary OR:ed together. A value of zero means No Note Code Set.</p> <p><i>Example 1:</i> Footnotes=3 means that both NM and XR Note Codes are active.</p> <p><i>Example 2:</i> Footnotes=31 means that NM, XR, SP, PO and UD are set.</p>

Table 12 Footnotes – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	0	No Note Codes available for the Orderbook.
	1	NM, New Market Company
	2	XR, Excluding participating in right/s
	4	SP, Excluding participating in split
	8	PO, Company subject to public offer
	16	UD, Under drawing
	32	SR, Excluding comb. Split and issue right/s
	64	UL, UnListed
	128	WI, When Issued
	256	BR, Company Bankruptcy
	512	SU, Suspension
	1024	RL, Removal from listing in process
	2048	SL, Other surveillance list reason
	4096	TO, A significant reverse takeover pending
	8192	CS, Cent shares
	16384	RS, Reversed Split
	32768	BS, Excluding comb. Bonus & Split
	65536	SS, Excluding comb. Split & Redemption share
	131072	FN, First North Company
	262144	OB, On the surveillance list
	524288	XD, Excluding dividend
	1048576	FE, Foreign non-EU/EEA Entity, excluding the Faroe Islands and Greenland
	2097152	SO, Sold-Out Buy-Back

2.3.2.3. MARKET_OMX_NORDIC_MarketSegmentState

Each time a change in the market segment occurs, the values of the quotation tag **MARKET_OMX_NORDIC_MarketSegmentState** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values*:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#

- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag `MARKET_OMX_NORDIC_MarketSegmentState` is described in the table below:

Table 13 MARKET_OMX_NORDIC_MarketSegmentState – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_MarketSegmentState	FeedOS tag name.
Numeric ID	14594	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the market segment state.
Possible Values	C	Closed
	I	Scheduled Intraday Auction
	L	Closing Auction
	O	Opening Auction
	P	PreOpen
	S	PostTrade
	T	Continuous Trading

2.3.2.4. MARKET_OMX_NORDIC_OrderBookTradingState

The values of the quotation tag `MARKET_OMX_NORDIC_OrderBookTradingState` conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the trading state of the order book:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag `MARKET_OMX_NORDIC_OrderBookTradingState` is described in the table below:

Table 14 MARKET_OMX_NORDIC_OrderBookTradingState – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_OrderBookTradingState	FeedOS tag name.
Numeric ID	14595	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the order book trading state.
Possible Values	H	Halted
	T	Trading on NASDAQ OMX Nordic
	Q	Auction Period

2.3.2.5. MARKET_OMX_NORDIC_OrderBookHaltReason

Each time an order book is no longer traded, the values of the quotation tag **MARKET_OMX_NORDIC_OrderBookHaltReason** conveyed on the OMX NORDIC CASH market data stream are disseminated via FeedOS data stream in *Other Values* to detail the halt reason:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

FeedOS implementation of the tag **MARKET_OMX_NORDIC_OrderBookHaltReason** is described in the table below:

Table 15 MARKET_OMX_NORDIC_OrderBookHaltReason – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_OMX_NORDIC_OrderBookHaltReason	FeedOS tag name.
Numeric ID	14596	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the order book halt reason.
Possible Values	TH	Trading Halt
	RH	Regulatory Halt
	MH	Matching Halt
	TS	Technical Stop
	KO	Trading Halt - Knock-Out
	VHD	Volatility Halt – Dynamic
	VHS	Volatility Halt – Static
	Space	Reason Not Available

2.4. MBL and MBO Data *

The MBL book has a 10-level depth. The MBO book is full depth.

3. Official Closing Price

For the instruments having an auction phase, the last auction price is used as the closing price. For all other instruments, the closing price is the last trade price upon close.

* The MBL and MBO data may not be included by default in your Level1 data subscription, but sold separately. Depending on your contract, additional terms, conditions and fees may apply. For more details about the subscription options, please contact S&P Capital IQ Real-Time Solutions.

4. Special Behavior

The following sections detail the OMX NORDIC CASH market data stream special behavior in terms of:

- 4.1. Management of the Trading Status Kinematics
- 4.2. Management of the CLOSE Kinematics
- 4.3. Management of the Last Auction Tags.

4.1. Management of the Trading Status Kinematics

In the Level1 Market Data Kinematics **before 2014-12-01**, when the tag MARKET_OMX_NORDIC_MarketSegmentState disseminates the value S=PostTrade, the Trading Status is set to 18=Not Available for Trading. Moreover, the exchange sends the CLOSE signal simultaneously with the value C=Closed of the tag MARKET_OMX_NORDIC_MarketSegmentState, while the Trading Status remains the same, as shown below:

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"
```

TE	15:24:14:122	159388634	*	*	9.45	49140@1	*	*	
VU	15:25:00:000	159388634	MARKET_OMX_NORDIC_MarketSegmentState=S						TradingStatus=18
TE	15:25:02:673	159388634	*	*	*	*	!	0	
TE	15:25:02:673	159388634	*	*	!	0	*	*	
SI	16:00:00:000	159388634	CLOSE	9.5					
TE	16:00:00:000	159388634	9.5	*	*	*	*	C	
VU	16:00:00:000	159388634	MARKET_OMX_NORDIC_MarketSegmentState=C						

In the Level1 Market Data Kinematics **after 2014-12-01**, when the tag MARKET_OMX_NORDIC_MarketSegmentState disseminates the value S=PostTrade, the Trading Status is set to 15=New Price Indication. Moreover, the exchange sends the CLOSE signal before disseminating the value C=Closed on the tag MARKET_OMX_NORDIC_MarketSegmentState, while the Trading Status is set to 18=Not Available for Trading, as shown below:

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"
```

TE	15:24:14:122	159388634	*	*	9.45	49140@1	*	*	
VU	15:25:00:000	159388634	MARKET_OMX_NORDIC_MarketSegmentState=S						TradingStatus=15
SI	15:25:00:000	159388634	CLOSE	9.5					
TE	15:25:00:000	159388634	9.5	*	*	*	*	C	
TE	15:25:02:673	159388634	*	*	*	*	!	0	
TE	15:25:02:673	159388634	*	*	!	0	*	*	
VU	16:00:00:000	159388634	MARKET_OMX_NORDIC_MarketSegmentState=C						TradingStatus=18

4.2. Management of the CLOSE Kinematics

If trades occur during the trading day, the market sends the CLOSE signal and the closing price. However, if no eligible closing trade occurs during the trading day, the market sends only the CLOSE signal, without the closing price, as shown in the examples below:

Sample OMX CLOSE kinematics for a traded instrument

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"
```

TE	15:34:11:046	140514971	*	*	*	*	!	0
TE	15:34:11:046	140514971	*	*	*	*	116.2	1000@1
TE	15:34:11:060	140514971	*	*	!	0	*	*
TE	15:34:11:060	140514971	*	*	115.7	1000@1	*	*
VU	15:55:00:002	140514971	MARKET_OMX_NORDIC_MarketSegmentState=L TradingStatus=5					
SI	15:59:37:144	140514971	CLOSE 113.3					
TE	15:59:37:144	140514971	113.3	*	*	*	*	C
VU	15:59:37:144	140514971	TradingStatus=18					
TE	15:59:37:144	140514971	*	*	!	0	*	*
TE	15:59:37:144	140514971	*	*	*	*	!	0
VU	15:59:59:957	140514971	MARKET_OMX_NORDIC_MarketSegmentState=S					
VU	16:20:00:006	140514971	MARKET_OMX_NORDIC_MarketSegmentState=C					

Sample OMX CLOSE kinematics for a not-traded instrument

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"
```

TE	15:34:11:046	140514971	*	*	*	*	!	0
TE	15:34:11:046	140514971	*	*	*	*	116.2	1000@1
TE	15:34:11:060	140514971	*	*	!	0	*	*
TE	15:34:11:060	140514971	*	*	115.7	1000@1	*	*
VU	15:55:00:002	140514971	MARKET_OMX_NORDIC_MarketSegmentState=L TradingStatus=5					
VU	15:55:00:020	140514971	LastAuctionPrice=? LastAuctionVolume=?					
			LastAuctionImbalanceSide=0 LastAuctionImbalanceVolume=?					
SI	15:59:37:144	140514971	CLOSE *					
TE	15:59:37:144	140514971	*	*	*	*	*	C
VU	15:59:37:144	140514971	TradingStatus=18					
TE	15:59:37:144	140514971	*	*	!	0	*	*
TE	15:59:37:144	140514971	*	*	*	*	!	0
VU	15:59:59:957	140514971	MARKET_OMX_NORDIC_MarketSegmentState=S					
VU	16:20:00:006	140514971	MARKET_OMX_NORDIC_MarketSegmentState=C					

4.3. Management of the Last Auction Tags

The Last Auction tags – LastAuctionPrice (NumericID: 9146, Type: Float64), LastAuctionVolume (NumericID: 9147, Type: Float64), LastAuctionImbalanceSide (NumericID: 9151, Type: Char) and LastAuctionImbalanceVolume (NumericID: 9152, Type: Float64) – are cleared at the beginning of each auction phase.

Moreover, each time the exchange sends a Net Order Imbalance Indicator (NOII) message with an auction reset, the Last Auction tags are reset, as shown in the example below:

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"

VU 02:04:16:691 140529444 MARKET_OMX_NORDIC_OrderBookTradingState=T
MARKET_OMX_NORDIC_OrderBookHaltReason=
TE null 140529444 * * ! 0 ! 0
VU 07:00:00:001 140529444 MARKET_OMX_NORDIC_MarketSegmentState=P TradingStatus=21
VU 08:30:00:001 140529444 MARKET_OMX_NORDIC_MarketSegmentState=0 TradingStatus=15
VU 08:30:00:013 140529444 LastAuctionPrice=? LastAuctionVolume=?
LastAuctionImbalanceSide=0 LastAuctionImbalanceVolume=?
TE 08:38:05:590 140529444 * * 100 1000@1 * *
SI 08:45:00:023 140529444 OPEN * * * * *
TE 08:45:00:023 140529444 * * * * * 0
VU 08:45:00:023 140529444 TradingStatus=17
VU 08:45:00:031 140529444 MARKET_OMX_NORDIC_MarketSegmentState=T
TE 09:17:21:598 140529444 * * 101.6 1000@1 * *
TE 09:17:37:760 140529444 * * * * 102.5 1000@1
TE 09:53:52:929 140529444 * * 101.7 874@1 * *
TE 15:30:11:000 140529444 102.59 100000 * * * * f
Buyer=NDA,Seller=NDA,MARKET_OMX_NORDIC_ReportedTradeType=char{1}
TE 15:37:04:859 140529444 * * * * ! 0
TE 15:37:19:757 140529444 * * * * 103.5 1000@1
TE 15:37:25:149 140529444 * * 102.6 1000@1 * *
VU 15:55:00:002 140529444 MARKET_OMX_NORDIC_MarketSegmentState=L TradingStatus=5
VU 15:55:00:021 140529444 LastAuctionPrice=? LastAuctionVolume=?
LastAuctionImbalanceSide=0 LastAuctionImbalanceVolume=?
SI 15:59:58:098 140529444 CLOSE * * * * *
TE 15:59:58:098 140529444 * * * * * C
VU 15:59:58:098 140529444 TradingStatus=18
TE 15:59:58:098 140529444 * * ! 0 * *
TE 15:59:58:098 140529444 * * * * ! 0
VU 15:59:59:957 140529444 MARKET_OMX_NORDIC_MarketSegmentState=S
VU 16:20:00:006 140529444 MARKET_OMX_NORDIC_MarketSegmentState=C
```

4.4. Microsecond Timestamp Precision on the Level1 Market Data

Effective **2015-03-23**, the server timestamps displays microsecond units on the Level1 Market Data, as shown in the example below (highlighted in **green**):

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"

TE 11:00:22:091.520 901776370 * * * * 12.42 1@1
TE 11:00:22:091.612 901776370 * * 11.75 26@5 * *
TE 11:00:22:091.612 901776370 * * * * 6 942@39
TE 11:00:22:091.868 901776370 * * 13.25 23@4 * *
```


5. Finding the Latest Information

For the latest documentation and product updates, additional support and training, please contact our support services one of the following ways:

- E-mail: rts-support@spcapitaliq.com
- Web: <https://support.quanthouse.com>.