

**S&P Capital IQ Real-Time Solutions**

## **FeedOS™ Feed Description**

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**OSLO MIT**

Reference n°: 20150402 – 23726 – 24677



S&P Capital IQ Real-Time Solutions  
FeedOS™ Feed Description: OSLO MIT  
Reference 20150402 – 23726 – 24677  
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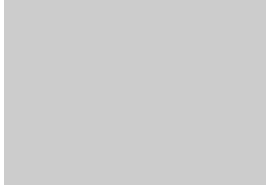
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# FEEDOS™ OSLO MIT FEED DESCRIPTION

As part of S&P Capital IQ Real-Time Solutions FeedOS documentation, this feed description provides you with details about the types of data broadcast on the OSLO MIT 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 OSLO MIT 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 OSLO MIT market data stream:

- [1.1.1. Markets](#)
- [1.1.2. Branches.](#)

### 1.1.1. Markets

The OSLO MIT market data stream broadcasts informations about the following markets:

**Table 1** List of markets available on OSLO MIT market data stream

FeedOS Market ID	Market
XOSL	Oslo Børs
BURG	Burgundy Nordic MTF
XOAM	Oslo Børs Alternative Bond Market
XOAS	Oslo Axess

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

```
MARKETS
market # 187    CC=NO/NORWAY/OLSO,DESCR=OSLO BORS, WEB=www.ose.no
  MIC = XOSL
  TimeZone = Europe/Oslo
  Country = NO
  NbMaxInstruments = 2000000
market # 259    CC=SE/SWEDEN/STOCKHOLM,DESCR=BURGUNDY NORDIC MTF, WEB=www.burgundy.se
  MIC = BURG
  TimeZone = Europe/Oslo
  Country = NO
  NbMaxInstruments = 2000000
market # 437    CC=NO/NORWAY/OLSO,DESCR=OSLO BORS ALTERNATIVE BOND MARKET,
WEB=www.abmportal.no
  MIC = XOAM
  TimeZone = Europe/Oslo
  Country = NO
  NbMaxInstruments = 2000000
market # 439    CC=NO/NORWAY/OLSO,DESCR=OSLO AXESS, WEB=www.osloaxess.no
  MIC = XOAS
  TimeZone = Europe/Oslo
  Country = NO
  NbMaxInstruments = 2000000
```

### 1.1.2. Branches

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

```
BRANCHES
{ XOSL CS    ESXXXX } qty: 201
{ XOSL NONE EUXXXX } qty: 129
{ XOSL NONE EXXXXX } qty: 21
{ XOSL NONE RSXXXX } qty: 20
{ XOSL WAR  RWXXXX } qty: 1183
{ BURG CS    ESXXXX } qty: 996
{ BURG NONE EUXXXX } qty: 80
{ BURG NONE RSXXXX } qty: 14
{ XOAM NONE RXXXXX } qty: 92
{ XOAS CS    ESXXXX } qty: 45
{ XOAS NONE RSXXXX } qty: 5
```

## 1.2. Types of Instruments

The following sections illustrate the instruments' characteristics on OSLO MIT market data stream, according to their type:

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

### 1.2.1. Equities

The sample below illustrates the details of an equity:

```
instr # 187/756990 = 392924414
  PriceCurrency      string{NOK}
  Symbol             string{NANO}
  Issuer             string{Nordic Nanovector ASA}
  Description         string{Nordic Nanovector}
  SecurityType       string{CS}
  FOSMarketId        XOSL
  CFICode            string{ESXXXX}
  CountryOfIssue     string{NO}
  RoundLot           float64{1}
  SecuritySubType    string{SH}
  SecurityGroup      string{OBNW}
  InternalCreationDate Timestamp{2015-03-23 02:01:02:231}
  InternalModificationDate Timestamp{2015-04-02 01:01:02:418}
  InternalSourceId   uint16{65}
  LocalCodeStr       string{1301592}
  ISIN               string{N00010597883}
  PriceIncrement_dynamic_TableId uint32{4259941}
  OperatingMIC       string{XOSL}
  DynamicVariationRange float64{0}
  StaticVariationRange float64{0}
  MARKET_LSE_NormalMarketSize float64{300}
  MARKET_LSE_SegmentCode string{OBNW}
```

## 1.2.2. Rights

The sample below illustrates the details of a right:

```
instr # 187/756626 = 392924050
  PriceCurrency      string{NOK}
  Symbol             string{NTS S}
  Issuer             string{NTS ASA}
  Description         string{NTS TR}
  SecurityType       string{NONE}
  FOSMarketId        XOSL
  CFICode            string{RSXXXX}
  CountryOfIssue     string{NO}
  RoundLot           float64{1}
  SecuritySubType    string{RG}
  SecurityGroup       string{OBST}
  InternalCreationDate Timestamp{2014-11-20 02:01:02:086}
  InternalModificationDate Timestamp{2015-01-08 09:11:56:287}
  InternalSourceId    uint16{65}
  InternalAggregationId uint16{65}
  InternalEntitlementId int32{1084}
  DelayedFeedMin      uint16{15}
  LocalCodeStr        string{1301389}
  ISIN               string{N00010722671}
  MaturityYear        uint16{2014}
  MaturityMonth       uint8{12}
  MaturityDay         uint8{4}
  PriceIncrement_dynamic_TableId uint32{4259941}
  OperatingMIC        string{XOSL}
  DynamicVariationRange float64{900}
  StaticVariationRange float64{900}
  MARKET_LSE_NormalMarketSize float64{500}
  MARKET_LSE_SegmentCode string{OBST}
```



### 1.2.3. Warrants

The sample below illustrates the details of a warrant:

```
instr # 187/756967 = 392924391
  PriceCurrency      string{NOK}
  Symbol             string{YARW15I480HA}
  Issuer             string{SVENSKA HANDELSBANKEN AB}
  Description        string{YARW15I480HA}
  SecurityType       string{WAR}
  FOSMarketId        XOSL
  CFICode            string{RWXXXX}
  CountryOfIssue     string{NO}
  RoundLot           float64{1}
  SecuritySubType    string{WA}
  SecurityGroup      string{OBWR}
  InternalCreationDate Timestamp{2015-02-18 02:01:02:277}
  InternalModificationDate Timestamp{2015-04-02 04:45:00:142}
  InternalSourceId   uint16{65}
  InternalAggregationId uint16{65}
  InternalEntitlementId int32{1084}
  DelayedFeedMin     uint16{15}
  LocalCodeStr       string{2015341}
  ISIN               string{N00010731482}
  MaturityYear       uint16{2015}
  MaturityMonth      uint8{9}
  MaturityDay        uint8{18}
  PriceIncrement_dynamic_TableId uint32{4259941}
  OperatingMIC       string{XOSL}
  DynamicVariationRange float64{0}
  StaticVariationRange float64{0}
  MARKET_LSE_NormalMarketSize float64{10000}
  MARKET_LSE_SegmentCode string{OBWR}
```

## 1.3. Specific Referential Tags

The following sections describe additional, specific referential tags available on the OSLO MIT market data stream:

- [1.3.1. SecurityStatus](#)
- [1.3.2. OperatingMIC and SegmentMIC](#)
- [1.3.3. DynamicVariationRange](#)
- [1.3.4. StaticVariationRange](#)
- [1.3.5. MARKET\\_LSE\\_NormalMarketSize](#)
- [1.3.6. MARKET\\_LSE\\_SegmentCode.](#)

### 1.3.1. SecurityStatus

The values of the referential tag **SecurityStatus** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Referential* to indicate the status of an instrument.

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

**Table 2      SecurityStatus – technical implementation in FeedOS**

Component	Value	Description
Tag Name	SecurityStatus	FeedOS tag name.
Numeric ID	965	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	UInt8	UInt8 data type.
Format	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , indicating the status of an instrument.
Possible Values	1	Active (Default value)
	2	Inactive
	3	Suspended

### 1.3.2. OperatingMIC and SegmentMIC

The values of the referential tags **OperatingMIC** and **SegmentMIC** conveyed on the OSLO MIT market data stream are disseminated via FeedOS in *Referential* to reflect the exchange adoption of the ISO 10383:2012 standard. This new edition of the ISO standard refines the level of granularity on OSLO MIT market data stream, by introducing two levels of MIC codes – *operating* (parent-like) and *market segment* (child-like) MICs.

FeedOS implementation of the tags `OperatingMIC` and `SegmentMIC` is described in the following table:

**Table 3      OperatingMIC and SegmentMIC – technical implementation in FeedOS**

Component	Value		Description
Tag Name	OperatingMIC	SegmentMIC	FeedOS tag name.
Numeric ID	9533	9534	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	String data type.
Format	<i>[Exchange specific value]</i>	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , specifying the parent and child MICs.
Possible Values	XOSL	BURG	BURGUNDY NORDIC MTF
		XOAM	NORDIC ALTERNATIVE BOND MARKET
		XOAS	OSLO AXESS

### 1.3.3. DynamicVariationRange

The values of the referential tag **DynamicVariationRange** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Referential* to indicate the maximum permitted value around the dynamic price.

The **Dynamic Range** defines the maximum permitted variation around the *Dynamic Price* (in both directions) and it is expressed as a percentage. The *Dynamic Price* is the price fixed *in the last trade*, and may be the result either of an auction (in which case it will be the same as the static price) or of a trade made on the open market. The Dynamic Range remains in force only while the market is open and during the closing auction.

S&P Capital IQ Real-Time Solutions disseminates only the variation ranges related to the continuous trading session.

FeedOS implementation of the tag `DynamicVariationRange` is described in the following table:

**Table 4      `DynamicVariationRange` – technical implementation in FeedOS**

Component	Value	Description
Tag Name	<code>DynamicVariationRange</code>	FeedOS tag name.
Numeric ID	9553	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	Float64	Float64 data type.
Format / Possible Values	<i>[Exchange Specific Value]</i>	An <b>exchange specific percentile value</b> , detailing the maximum permitted value around the dynamic price.

### 1.3.4. `StaticVariationRange`

The values of the referential tag `StaticVariationRange` conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Referential* to indicate the maximum permitted value around the static price.

The **Static Range** defines the maximum permitted variation around the *Static Price* (in both directions) and it is expressed as a percentage. The *Static Price* is the price fixed *at the last auction* (the auction allocation price). The Static Range remains in force during the entire session.

S&P Capital IQ Real-Time Solutions disseminates only the variation ranges related to the continuous trading session.

FeedOS implementation of the tag `StaticVariationRange` is described in the following table:

**Table 5      `StaticVariationRange` – technical implementation in FeedOS**

Component	Value	Description
Tag Name	<code>StaticVariationRange</code>	FeedOS tag name.
Numeric ID	9554	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	Float64	Float64 data type.
Format / Possible Values	<i>[Exchange Specific Value]</i>	An <b>exchange specific percentile value</b> , detailing the maximum permitted value around the static price.

### 1.3.5. `MARKET_LSE_NormalMarketSize`

The values of the referential tag `MARKET_LSE_NormalMarketSize` conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Referential* to detail the size of the transaction.

FeedOS implementation of the tag **MARKET\_LSE\_NormalMarketSize** is described in the following table:

**Table 6 MARKET\_LSE\_NormalMarketSize – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_NormalMarketSize	FeedOS tag name.
Numeric ID	11000	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	Float64	Float64 data type.
Format / Possible Values	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , detailing the size of the transaction.

### 1.3.6. MARKET\_LSE\_SegmentCode

The values of the referential tag **MARKET\_LSE\_SegmentCode** conveyed on the OSLO MIT market data stream are disseminated via FeedOS market data stream in *Referential* to uniquely identify a specific trading area as defined by Oslo Børs.

FeedOS implementation of the tag **MARKET\_LSE\_SegmentCode** is described in the following table:

**Table 7 MARKET\_LSE\_SegmentCode – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_SegmentCode	FeedOS tag name.
Numeric ID	11002	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 <b>exchange specific value</b> , uniquely identifying a specific trading area, as described below.
Possible Values	OAX	The OAX segment includes the Oslo Axess listed securities. This does not imply any change in Oslo Axess' status as a regulated market.
	OBEF	The OBEF segment includes the listed ETFs (Exchange Traded Funds). OBEN The OBEN segment includes the listed ETNs (Exchange Traded Notes).
	OBMA	The OBMA segment includes the securities in liquidity category OB Match, such as shares with a minimum of 10 trades per day on average, excl. OBX or shares with less than 10 trades but with a liquidity provider scheme.
	OBNW	The OBNW segment includes the securities in liquidity category OB New, such as newly listed shares.
	OBPC	The OBPC segment includes the securities in the liquidity category OB Equity Certificates, such as the listed equity certificates.

**Table 7** MARKET\_LSE\_SegmentCode – technical implementation in FeedOS (Continued)

Component	Value	Description
<b>Possible Values</b>	OBST	The OBST segment includes the securities in liquidity category OB Standard, such as shares with fewer than 10 trades per day on average and without a liquidity provider agreement.
	OBTS	This is a segment including instruments with different instrument types. The details are described in <i>OSL MIT 501 Guide to Testing Services</i> <sup>3</sup> . Please notice that access to these instruments may be restricted by Oslo Børs without any prior notice.
	OBWR	The OBWR segment includes warrants.
	OBX	This segment includes the constituents of the OBX index – the most traded stocks at Oslo Børs.

## 2. Quotation Data

The following sections describe the characteristics of the quotation data on OSLO MIT market data stream, in terms of:

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

## 2.1. Quotation Values

The examples below shows the possible values of an instrument on OSLO MIT market data stream:

```
InstrumentStatusL1
-- 187/756990
    BID: 34.7      6016    @1
    ASK: 34.8      2862    @2
    LastPrice      float64{34.7}
    LastTradeQty    float64{100}
    DailyHighPrice  float64{35.5}
    DailyLowPrice   float64{34}
    DailyTotalVolumeTraded float64{276752}
    DailyTotalAssetTraded float64{9571516.7}
    LastTradePrice  float64{34.7}
    LastTradeTimestamp Timestamp{2015-03-24 10:32:13:409}
    InternalDailyOpenTimestamp Timestamp{2015-03-24 08:00:29:015}
    InternalDailyCloseTimestamp Timestamp{2015-03-23 16:37:00:084}
    InternalDailyHighTimestamp Timestamp{2015-03-24 09:13:46:004}
    InternalDailyLowTimestamp Timestamp{2015-03-24 09:01:48:613}
    InternalPriceActivityTimestamp Timestamp{2015-03-24 10:32:13:409}
    TradingStatus   17=ReadyToTrade
    LastOffBookTradePrice float64{34.6}
    LastOffBookTradeQty float64{7835}
    LastOffBookTradeTimestamp Timestamp{2015-03-24 09:30:54:747}
    DailyOpeningPrice float64{34.7}
    PreviousDailyTotalVolumeTraded float64{2173729}
    PreviousDailyTotalAssetTraded float64{75511846.2}
    PreviousDailyClosingPrice float64{34.5}
    PreviousBusinessDay Timestamp{2015-03-23}
    CurrentBusinessDay Timestamp{2015-03-24}
    LastAuctionPrice float64{34.7}
    LastAuctionVolume float64{8150}
    DailyTotalOffBookVolumeTraded float64{23505}
    DailyTotalOffBookAssetTraded float64{813273}
    PreviousInternalDailyClosingPriceType char{a}
    InternalLastAuctionTimestamp Timestamp{2015-03-24 08:00:26:797}
    PriceActivityMarketTimestamp Timestamp{2015-03-24 10:32:13:409}
    MARKET_TURQUOISE_DarkBookTradingStatus Enum{17}
    MARKET_TURQUOISE_OffBookReportingTradingStatus Enum{17}
    MARKET_LSE_MIT_TradingStatusDetails char{T}
    MARKET_LSE_MIT_TotalAuctionVolume float64{8150}
```

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 OSLO MIT 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 8      `TradingStatus` – technical implementation in FeedOS**

Component	Value	Description
Tag Name	<code>TradingStatus</code>	FeedOS tag name.
Numeric ID	9100	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Enum	Enum data type.
Format	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , detailing the characteristics of the trading status.
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 additional, specific quotation tags available on OSLO MIT 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 on OSLO MIT market data stream:

- [2.3.1.1. TradeID](#)
- [2.3.1.2. MMTFlagsV2](#)
- [2.3.1.3. Aggressor Side](#)
- [2.3.1.4. MARKET\\_LSE\\_MIT\\_OffBookReportingTradeTypeIndicator](#)
- [2.3.1.5. MARKET\\_LSE\\_MIT\\_AuctionTypeIndicator.](#)

#### 2.3.1.1. TradeID

Each time a trade occurs, the values of the quotation tag **TradeID** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Context* to identify the 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 values currently available for the tag TradeID is described in the following table:

**Table 9 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 <b>exchange specific value</b> identifying the trade.

### 2.3.1.2. MMTFlagsV2

Each time a trade occurs, the values of the quotation tag **MMTFlagsV2** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Context* to detail the Market Model Typology (version 2) applicable to the 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 MMTFlagsV2 is described in the table below (newly available values are in **green**):

**Table 10 MMTFlagsV2 – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MMTFlagsv2	FeedOS tag name.
Numeric ID	9901	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] 10-character long</i>	An <b>exchange specific value</b> , detailing the Market Model Typology (version 2) applicable to the trade.
Possible Values	<b>MMT Level 1 - MARKET MECHANISM – OFFSET 1</b>	
	1	Central Limit Order Book
	2	Quote Driven Market
	3	Dark Order Book
	4	Off Book
	<b>MMT Level 2 - TRADING MODE – OFFSET 2</b>	
	1	Undefined Auction
	2	Continuous Trading
	3	At Market Close Trading
	4	Out of Main Session Trading
	5	Trade Reporting (On Exchange)
	6	Trade Reporting (Off Exchange)
	7	Trade Reporting (Systematic Internaliser)
	0	Scheduled Opening Auction
	K	Scheduled Closing Auction



Table 10 MMTFlagsV2 – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	I	Scheduled Intraday Auction
	U	Unscheduled Auction
	<b>MMT Level 3 - TRANSACTION TYPE</b>	
	<b>3.1. TRANSACTION CATEGORY – OFFSET 3</b>	
	B	Benchmark Trade
	P	Plain-Vanilla Trade
	D	Dark Trade
	T	Technical Trade
	G	Give-up/Give-In Trade
	F	Trade with Conditions
	<b>3.2. NEGOTIATED TRANSACTION INDICATOR – OFFSET 4</b>	
	N	Negotiated Trade
	-	No Negotiated Trade
	<b>3.3. CROSSING TRADE INDICATOR – OFFSET 5</b>	
	X	Crossing Trade
	-	No Crossing Trade
	<b>3.4. MODIFICATION INDICATOR – OFFSET 6</b>	
	C	Trade Cancellation
	A	Trade Amendment
	-	New Trade
	<b>3.5. BENCHMARK INDICATOR – OFFSET 7</b>	
	B	Benchmark Trade
	-	No Benchmark Trade
	<b>3.6. EX/CUM DIVIDEND INDICATOR – OFFSET 8</b>	
	E	Ex/cum dividend Trade
	-	No Ex/Cum Dividend Trade
	<b>MMT Level 4 - PUBLICATION MODE – OFFSET 9</b>	
	-	Immediate Publication
	1	Non Immediate Publication

### 2.3.1.3. Aggressor Side

Each time a trade occurs, the values of the quotation context tag **Aggressor Side** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Context*, to indicate whether the aggressor is a buyer or a seller:

- 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 AggressorSide is described in the following table:

**Table 11 AggressorSide – technical implementation in FeedOS**

Component	Value	Description
Tag Name	AggressorSide	FeedOS tag name.
Numeric ID	9356	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>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , indicating whether the aggressor is a buyer or a seller.
Possible Values	Space	No aggressor
	1	Buy Side
	2	Seller Side

#### 2.3.1.4. MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator

Each time a trade occurs, the values of the quotation tag **MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Context* to detail the off book 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\_LSE\_MIT\_OffBookReportingTradeTypeIndicator** is described in the table below:

**Table 12 MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_MIT_OffBookReportingTradeTypeIndicator	FeedOS tag name.
Numeric ID	15950	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 <b>exchange specific value</b> , detailing the off book trade type.
Possible Values	20	NM – Not to Mark
	1000	O – Ordinary trade
	1005	NK – Negotiated trade – delayed publ. requested
	1006	NT – Negotiated trade
	1008	OK – Ordinary trade – delayed publ. requested
	1009	OT – OTC trade
	1011	SI – SI Trade
	1012	SK – SI Trade – delayed publ. requested
	1013	TK – OTC trade – delayed publ. requested
	3012	DT – Derivative Related
	3013	VW – VWAP Trade

### 2.3.1.5. MARKET\_LSE\_MIT\_AuctionTypeIndicator

Each time a trade occurs, the values of the quotation tag **MARKET\_LSE\_MIT\_AuctionTypeIndicator** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Context* to detail the auction 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\_LSE\_MIT\_AuctionTypeIndicator** is described in the table below:

**Table 13 MARKET\_LSE\_MIT\_AuctionTypeIndicator – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_MIT_AuctionTypeIndicator	FeedOS tag name.
Numeric ID	15951	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 <b>exchange specific value</b> , detailing the auction type.
Possible Values	A	Re-Opening Auction
	C	Closing Auction
	I	Intra-Day Auction
	O	Opening Auction

### 2.3.2. Other Values

The following subsections describe the trade conditions on the OSLO MIT market data stream:

- [2.3.2.1. InternalDailyClosingPriceType](#)
- [2.3.2.2. MARKET\\_TURQUOISE\\_DarkBookTradingStatus](#)
- [2.3.2.3. MARKET\\_TURQUOISE\\_OffBookReportingTradingStatus](#)
- [2.3.2.4. MARKET\\_LSE\\_MIT\\_TradingStatusDetails](#)
- [2.3.2.5. MARKET\\_LSE\\_MIT\\_HaltReason](#)
- [2.3.2.6. MARKET\\_LSE\\_MIT\\_TotalAuctionVolume.](#)

#### 2.3.2.1. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the OSLO MIT 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 (currently disseminated values are in **green**):

**Table 14 InternalDailyClosingPriceType – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	<code>InternalDailyClosingPriceType</code>	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 <b>internal specific value</b> , detailing the type of daily closing price, as described below.
Possible Values	0	<b>Undefined</b>
	<b>a</b>	<b>Official Close</b> – Explicit closing price value calculated and distributed by an exchange for the main trading session of a given trading day.
	<b>b</b>	<b>Official Indicative</b> – Exchange has provided an indicative price and marked it as indicative, however no trading activity is observed.
	<b>c</b>	<b>Official Carry Over</b> – Explicit Closing price value from a previous trading day carried forward by the exchange to the given trading day.
	<b>d</b>	<b>Last Price</b> – Final price disseminated by the exchange for the main trading session or dissemination period of a given trading day (for indices).
	e	<b>Last Eligible Price</b> – 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	<b>Manual</b> – Price disseminated manually (in case of production correction).

### 2.3.2.2. MARKET\_TURQUOISE\_DarkBookTradingStatus

The values of the quotation tag `MARKET_TURQUOISE_DarkBookTradingStatus` conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the trading status:

- 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_TURQUOISE_DarkBookTradingStatus` is described in the table below:

**Table 15 MARKET\_TURQUOISE\_DarkBookTradingStatus – technical implementation in FeedOS**

Component	Value	Description
Tag Name	<code>MARKET_TURQUOISE_DarkBookTradingStatus</code>	FeedOS tag name.
Numeric ID	14721	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	Enum	Enum data type.
Format	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , indicating the trading status of the Dark Book.

Table 15 MARKET\_TURQUOISE\_DarkBookTradingStatus – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	2	Trading Halt
	5	Price Indication
	17	Ready to Trade
	18	Not Available for Trading

### 2.3.2.3. MARKET\_TURQUOISE\_OffBookReportingTradingStatus

The values of the quotation tag **MARKET\_TURQUOISE\_OffBookReportingTradingStatus** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the off book trading status:

- 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\_TURQUOISE\_OffBookReportingTradingStatus** is described in the table below:

Table 16 MARKET\_TURQUOISE\_OffBookReportingTradingStatus – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_TURQUOISE_OffBookReportingTradingStatus	FeedOS tag name.
Numeric ID	14722	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	Enum	Enum data type.
Format	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , indicating the off book trading status.
Possible Values	2	Trading Halt
	17	Ready to Trade
	18	Not Available for Trading

### 2.3.2.4. MARKET\_LSE\_MIT\_TradingStatusDetails

Each time a modification of the instrument status occurs, the values of the quotation tag **MARKET\_LSE\_MIT\_TradingStatusDetails** conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the current status of the instrument:

- 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\_LSE\_MIT\_TradingStatusDetails is described in the table below:

**Table 17 MARKET\_LSE\_MIT\_TradingStatusDetails – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_MIT_TradingStatusDetails	FeedOS tag name.
Numeric ID	14750	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 <b>exchange specific value</b> , detailing the current status of an instrument.
Possible Values	2	Intra-day Auction
	H	Halt
	T	Regular Trading/Start of Trade Reporting
	a	Opening Auction Call
	b	Post-Close
	c	Market Close
	d	Closing Auction Call
	e	Re-Opening Auction Call
	v	End of Trade Reporting
	w	No Active Session
	x	End of Post Close
	y	Pre-Trading (Start of Trading)
	Z	Closing Price Publication

### 2.3.2.5. MARKET\_LSE\_MIT\_HaltReason

Each time an instrument is halted from trading, the values of the quotation tag **Halt Reason** conveyed on the OSLO MIT 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\_LSE\_MIT\_HaltReason is described in the table below:

**Table 18 MARKET\_LSE\_MIT\_HaltReason – technical implementation in FeedOS**

Component	Value	Description
Tag Name	MARKET_LSE_MIT_HaltReason	FeedOS tag name.
Numeric ID	14752	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 <b>exchange specific value</b> , detailing the reason of halting an instrument.

**Table 18** MARKET\_LSE\_MIT\_HaltReason – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	1	Price movement
	2	Received announcement
	3	In anticipation of announcement
	4	System problems
	5	Other
	6	Reference data update
	101	Instrument-level circuit breaker tripped
	9998	Matching partition suspended
	9999	System suspended
	Space	Reason not available

When an instrument is no longer halted, the tag MARKET\_LSE\_MIT\_HaltReason is reset by sending a value with the syntax UNKNOWN.

### 2.3.2.6. MARKET\_LSE\_MIT\_TotalAuctionVolume

The values of the quotation tag MARKET\_LSE\_MIT\_TotalAuctionVolume conveyed on the OSLO MIT market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the volume of the auction:

- 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\_LSE\_MIT\_TotalAuctionVolume is described in the following table:

**Table 19** MARKET\_LSE\_MIT\_TotalAuctionVolume – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_LSE_MIT_TotalAuctionVolume	FeedOS tag name.
Numeric ID	14756	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	Float64	Float64 data type.
Format / Possible Values	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , indicating the auction's volume.

## 2.4. MBL, MBO and BBO Data \*

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

\* The MBL, MBO and BBO 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.

### 3. Official Closing Price

The closing price is the last trade price upon close, as provided by the exchange. If the instrument has an auction phase, the market sends the last auction price, which becomes the closing price. When a stock splits, the closing price is adjusted after the closing. There is no settlement price.

## 4. Special Behavior

The following sections describe the special behavior of the OSLO MIT market data stream:

- [4.1. Level1 Market Data Kinematics – Post-Close](#)
- [4.2. Update of the Level1 Market Data Kinematics – CLOSE](#)
- [4.3. Update of the Level1 Market Data Kinematics – Halted Instruments Behavior.](#)

### 4.1. Level1 Market Data Kinematics – Post-Close

In the Post-Close kinematics **before 2014-04-28**, during the Post-Trading Hours (usually, between 16:25 and 17:30 Exchange Standard Time), an instrument had the Trading Status 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 15:25:00:226.577 392921627 1.33 50000 * * * *
TradeConditionsDictionaryKey=uint32{136314981},HiddenLiquidityFlag=bool{True}
TE 15:25:00:226.675 392921627 * * 1.329 214000@2 * *
TE 15:25:00:226.689 392921627 1.33 37280 * * 1.33 565221@3
VU 15:25:00:226.714 392921627 MARKET_LSE_MIT_TradingStatusDetails=z TradingStatus=18
SI 15:25:00:233.187 392921627 CLOSE 1.33
TE 15:25:00:233.187 392921627 1.33 * * * * * C
VU 15:25:01:025.749 392921627 MARKET_LSE_MIT_TradingStatusDetails=b TradingStatus=18
VU 16:30:00:056.877 392921627 MARKET_LSE_MIT_TradingStatusDetails=x TradingStatus=18
TE 16:37:00:150.370 392921627 * * 1.329 14000@1 * *
TE 16:37:00:151.794 392921627 * * * * 1.33 67323@2
VU 16:37:00:153.886 392921627 MARKET_LSE_MIT_TradingStatusDetails=c
```



In the Post-Close kinematics **after 2014-04-28**, during the same Post-Trading Hours, an instrument has the Trading Status 15=New Price Indication, as shown in the next 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 15:25:00:226.577 392921627 1.33 50000 * * * *
TradeConditionsDictionaryKey=uint32{136314981},HiddenLiquidityFlag=bool{True}
TE 15:25:00:226.675 392921627 * * 1.329 214000@2 * *
TE 15:25:00:226.689 392921627 1.33 37280 * * 1.33 565221@3
VU 15:25:00:226.714 392921627 MARKET_LSE_MIT_TradingStatusDetails=z TradingStatus=18
SI 15:25:00:233.187 392921627 CLOSE 1.33
TE 15:25:00:233.187 392921627 1.33 * * * * * C
VU 15:25:01:025.749 392921627 MARKET_LSE_MIT_TradingStatusDetails=b TradingStatus=15
VU 16:30:00:056.877 392921627 MARKET_LSE_MIT_TradingStatusDetails=x TradingStatus=18
TE 16:37:00:150.370 392921627 * * 1.329 14000@1 * *
TE 16:37:00:151.794 392921627 * * * * 1.33 67323@2
VU 16:37:00:153.886 392921627 MARKET_LSE_MIT_TradingStatusDetails=c
```

## 4.2. Update of the Level1 Market Data Kinematics – CLOSE

In the Level1 Market Data Kinematics **before 2015-04-20**, the CLOSE signal was sent when the MARKET\_LSE\_MIT\_TradingStatusDetails received the value c=MarketClose, 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 07:10:00:058.199 392918865 MARKET_LSE_MIT_TradingStatusDetails=y
TE 07:10:00:058.215 392918865 * * 0.2 1000@1 * *
VU 07:15:00:108.872 392918865 MARKET_LSE_MIT_TradingStatusDetails=a TradingStatus=21
SI 07:15:00:132.984 392918865 OPEN *
TE 07:15:00:132.984 392918865 * * * * * * 0
VU 07:15:00:132.984 392918865 MARKET_LSE_MIT_TradingStatusDetails=T
InternalDailyClosingPriceType=?
VU 07:45:01:012.758 392918865 MARKET_LSE_MIT_TradingStatusDetails=T
MARKET_LSE_MIT_HaltReason=?
VU 07:45:25:030.183 392918865 TradingStatus=17
TE 09:03:45:533.090 392918865 0.2 1 0.2 999@1 * * HL
TradeID=1181374308417942,AggressorSide='2'=Sell,TradeConditionsDictionaryKey=uint32{2663384
05},MMTFlagsV2=12P-----
VU 09:03:45:533.090 392918865 DailyOpeningPrice=0.2
TE 09:03:50:573.225 392918865 0.2 1 0.2 998@1 * *
TradeID=1181374308417944, AggressorSide='2'=Sell,
TradeConditionsDictionaryKey=uint32{266338405}, MMTFlagsV2=12P-----
VU 17:20:00:014.078 392918865 MARKET_LSE_MIT_TradingStatusDetails=d
LastAuctionPrice=? LastAuctionVolume=? TradingStatus=5
VU 17:25:29:129.044 392918865 MARKET_LSE_MIT_TradingStatusDetails=z TradingStatus=18
VU 17:25:30:004.886 392918865 MARKET_LSE_MIT_TradingStatusDetails=b TradingStatus=15
VU 17:58:00:129.422 392918865 MARKET_LSE_MIT_TradingStatusDetails=x TradingStatus=18
SI 17:59:00:203.602 392918865 CLOSE 0.2
TE 17:59:00:203.602 392918865 0.2 * * * * * C
VU 17:59:00:203.602 392918865 MARKET_LSE_MIT_TradingStatusDetails=c
InternalDailyClosingPriceType=d
VU 17:59:00:203.602 392918865 DailyClosingPrice=0.2

```

In the Level1 Market Data Kinematics **after 2015-04-20**, the CLOSE signal will be sent earlier, when the MARKET\_LSE\_MIT\_TradingStatusDetails receives the value z=ClosingPricePublication, 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"

VU 07:10:00:058.199 392918865 MARKET_LSE_MIT_TradingStatusDetails=y
TE 07:10:00:058.215 392918865 * * 0.2 1000@1 * *
VU 07:15:00:108.872 392918865 MARKET_LSE_MIT_TradingStatusDetails=a TradingStatus=21
SI 07:15:00:132.984 392918865 OPEN *
TE 07:15:00:132.984 392918865 * * * * * *
VU 07:15:00:132.984 392918865 MARKET_LSE_MIT_TradingStatusDetails=T
MARKET_TURQUOISE_OffBookReportingTradingStatus=17 InternalDailyClosingPriceType=?
VU 07:45:01:012.758 392918865 MARKET_LSE_MIT_TradingStatusDetails=T
MARKET_TURQUOISE_DarkBookTradingStatus=17 MARKET_LSE_MIT_HaltReason=?
VU 07:45:25:030.183 392918865 TradingStatus=17
TE 09:03:45:533.090 392918865 0.2 1 0.2 999@1 * * HL
TradeID=1181374308417942, AggressorSide='2'=Sell,
TradeConditionsDictionaryKey=uint32{266338405}, MMTFlagsV2=12P-----
VU 09:03:45:533.090 392918865 DailyOpeningPrice=0.2
TE 09:03:50:573.225 392918865 0.2 1 0.2 998@1 * *
TradeID=1181374308417944, AggressorSide='2'=Sell, TradeConditionsDictionaryKey=uint32{2663384
05}, MMTFlagsV2=12P-----
VU 17:20:00:014.078 392918865 MARKET_LSE_MIT_TradingStatusDetails=d
LastAuctionPrice=? LastAuctionVolume=? TradingStatus=5
SI 17:25:29:129.044 392918865 CLOSE 0.2
TE 17:25:29:129.044 392918865 0.2 * * * * * C
VU 17:25:29:129.044 392918865 MARKET_LSE_MIT_TradingStatusDetails=z
InternalDailyClosingPriceType=d TradingStatus=18
VU 17:25:29:131.648 392918865 DailyClosingPrice=0.2 InternalDailyClosingPriceType=a
VU 17:25:30:004.886 392918865 MARKET_LSE_MIT_TradingStatusDetails=b TradingStatus=15
VU 17:57:00:046.501 392918865 MARKET_TURQUOISE_OffBookReportingTradingStatus=15
VU 17:58:00:129.422 392918865 MARKET_LSE_MIT_TradingStatusDetails=x TradingStatus=18
VU 17:59:00:203.602 392918865 MARKET_LSE_MIT_TradingStatusDetails=c
MARKET_TURQUOISE_DarkBookTradingStatus=18
VU 17:59:00:329.970 392918865 MARKET_TURQUOISE_OffBookReportingTradingStatus=18

```

### 4.3. Update of the Level1 Market Data Kinematics – Halted Instruments Behavior

In the Level1 Market Data Kinematics **before 2015-04-20**, halted instruments closed (Trading Status 18=Not Available for Trading) at the end of the trading day, and then reopened (Trading Status 17=Ready to Trade) at the beginning of a new trading day, like regularly traded instruments, as shown in the example below:

```

VU 07:22:35:400 392921684 LastAuctionPrice=1.28
TE 07:44:21:122 392921684 * * ! 0 ! 0
VU 07:44:21:122 392921684 TradingStatus=18
TE 07:44:21:122 392921684 * * ! 0 ! 0
VU 07:44:21:125 392921684 LastAuctionPrice=? LastAuctionVolume=?

```

In the Level1 Market Data Kinematics **after 2015-04-20**, halted instruments will remain halted (Trading Status 2=Trading halt) during market closing and opening, until they will be traded again, as shown in the example below:

VU	07:22:35:400	392921684	LastAuctionPrice=1.28					
TE	07:44:21:122	392921684	*	*	!	0	!	0
VU	07:44:21:122	392921684	TradingStatus=2					
TE	07:44:21:122	392921684	*	*	!	0	!	0
VU	07:44:21:125	392921684	LastAuctionPrice=?			LastAuctionVolume=?		

## 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: [support@quanthouse.com](mailto:support@quanthouse.com)
- Web: <http://support.quanthouse.com>.