

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

## **FeedOS™ Feed Description**

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**IDEM/EURO TLX**

Reference n°: 20141224 – 15009 – 19296



S&P Capital IQ Real-Time Solutions  
FeedOS™ Feed Description: IDEM  
Reference 20141224 – 15009 – 19296  
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**France**

52 Rue de la Victoire  
75009 Paris  
France  
Tel: +33 (0) 1 73 02 32 11

**United States**

55 Water Street, 44th floor  
New York, NY 10041  
United States of America  
Tel: +1-(212)-438-4346

130 East Randolph  
One Prudential Plaza, Suite 2900  
Chicago, IL 60601  
United States of America  
Tel: +1-(312)-233-7129

**United Kingdom**

20 Canada Square  
Canary Wharf  
London E14 5LH  
United Kingdom  
Tel: +44 (0) 203 107 1676

**Singapore**

12 Marina Boulevard  
#23-01 Marina Bay  
Financial Centre Tower 3  
Singapore 018982  
Tel: +65 6530 6546

[www.spcapitaliq.com](http://www.spcapitaliq.com)

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# TABLE OF CONTENTS

<b>FeedOS™ IDEM/EURO TLX Feed Description</b>	<b>1</b>
1. Referential Data	1
1.1. Available Markets and Branches	1
1.1.1. Markets	2
1.1.2. Branches	2
1.2. Types of Instruments	2
1.2.1. Options	3
1.2.2. Futures	4
1.2.3. Multilegs	4
1.2.4. Bonds	5
1.2.5. Warrants	6
1.3. Specific Referential Tags	6
1.3.1. DynamicVariationRange	6
1.3.2. StaticVariationRange	7
1.3.3. MARKET_LSE_NormalMarketSize	7
1.3.4. MARKET_LSE_SectorCode (EURO TLX)	8
1.3.5. MARKET_LSE_SegmentCode (EURO TLX)	9
2. Quotation Data	9
2.1. Quotation Values	10
2.2. Trading Status	10
2.3. Specific Quotation Tags	11
2.3.1. Trade Conditions	11
2.3.1.1. MARKET_LSE_MIT_OffBookReportingTradeTypeIndicator	11
2.3.1.2. MARKET_LSE_MIT_AuctionTypeIndicator	13
2.3.1.3. MARKET_LSE_MIT_CrossType	13
2.3.2. Other Values	14
2.3.2.1. MARKET_LSE_MIT_TradingStatusDetails	14
2.3.2.2. MARKET_LSE_MIT_TotalAuctionVolume	15
2.4. MBL, MBO and BBO Data	16
3. Official Closing Price	16
4. Session Kinematics	16
5. Special Behavior	17
5.1. Absent Theoretical Auction Quantity	17
6. Finding the Latest Information	17



# FEEDOS™ IDEM/EURO TLX 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 IDEM/EURO TLX 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. Session Kinematics](#)
- [5. Special Behavior](#)
- [6. Finding the Latest Information.](#)

## 1. Referential Data

The following sections describe the characteristics of the referential data on the IDEM/EURO TLX 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 IDEM/EURO TLX market data stream.

### 1.1.1. Markets

The IDEM/EURO TLX market data stream broadcasts informations about the following markets:

**Table 1** List of markets available on the IDEM/EURO TLX market data stream

FeedOS Market ID	Market
XDMI	Italian Derivatives Market
ETLX	EuroTLX

The following example shows the complete list of markets available on the IDEM/EURO TLX market data stream and their IDs, returned by the dumps command:

```
MARKETS
market # 129    CC=IT/ITALY/MILANO,DESCR=ITALIAN DERIVATIVES MARKET, WEB=www.borsaitalia.it
MIC = XDMI
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
market # 374    CC=IT/ITALY/MILANO,DESCR=EUROTLX,WEB=www.eurotlx.com,OLD=FRRF,SEQNUM=1
MIC = ETLX
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
```

### 1.1.2. Branches

The example below shows the complete list of branches available on the IDEM/EURO TLX market data stream for each market, returned by the dumps command. Each branch displays the following details: FOSMarketID, SecurityType, CFICode and Quantity (of instruments):

```
BRANCHES
{ XDMI FUT  FXXCXX } qty: 807
{ XDMI FUT  FXXPXX } qty: 520
{ XDMI MLEG  SXXXXX } qty: 1491
{ XDMI NONE  XXXXXX } qty: 296
{ XDMI OPT  OXAXPX } qty: 39722
{ XDMI OPT  OXEXCX } qty: 2166
{ ETLX CS   ESXXXX } qty: 137
{ ETLX GO   DBFXXX } qty: 3618
{ ETLX GO   DBXXXX } qty: 415
{ ETLX GO   DBZXXX } qty: 127
{ ETLX WAR  MXXXXX } qty: 957
{ ETLX WAR  RMXXCX } qty: 115
{ ETLX WAR  RMXXPX } qty: 4
{ ETLX WAR  RWXCCX } qty: 1
```

## 1.2. Types of Instruments

The following sections describe the instruments available on the IDEM/EURO TLX market data stream, according to their type:

- [1.2.1. Options](#)

- [1.2.2. Futures](#)
- [1.2.3. Multilegs](#)
- [1.2.4. Bonds](#)
- [1.2.5. Warrants.](#)

### 1.2.1. Options

The sample below illustrates the details of an option:

```
instr # 129/56659 = 270589267
  PriceCurrency      string{EUR}
  Symbol             string{MIBO2W4K17800}
  Description         string{MIBO2W4K17800}
  SecurityType       string{OPT}
  StdMaturity        string{201411}
  StrikePrice        float64{17800}
  FOSMarketId        XDMI
  CFICode            string{OXEXCX}
  CountryOfIssue     string{IT}
  SecurityGroup      string{m2}
  InternalCreationDate Timestamp{2014-11-13 04:50:02:524}
  InternalModificationDate Timestamp{2014-11-17 10:14:11:208}
  InternalSourceId   uint16{53}
  InternalAggregationId uint16{69}
  InternalEntitlementId int32{1018}
  LocalCodeStr       string{ITA_D_030e518dcccabc80}
  ISIN               string{IT0011999817}
  UnderlyingLocalCodeStr string{IT0003465736}
  MaturityYear       uint16{2014}
  MaturityMonth      uint8{11}
  MaturityDay        uint8{14}
  PriceIncrement_dynamic_TableId uint32{3473510}
  OperatingMIC       string{XMIL}
  SegmentMIC         string{XDMI}
  MARKET_LSE_SegmentCode string{m2}
```

## 1.2.2. Futures

The sample below illustrates the details of a future:

```
instr # 129/6640 = 270539248
  PriceCurrency      string{EUR}
  Symbol             string{2US4L}
  Description         string{2US4L}
  SecurityType       string{FUT}
  StdMaturity        string{201412}
  FOSMarketId        XDMI
  CFICode            string{FXXCXX}
  CountryOfIssue     string{IT}
  SecurityGroup      string{cy}
  InternalCreationDate Timestamp{2014-05-13 14:32:39:502}
  InternalModificationDate Timestamp{2014-11-17 10:14:06:608}
  InternalHideFromLookup bool{True}
  InternalSourceId   uint16{53}
  InternalAggregationId uint16{69}
  InternalEntitlementId int32{1018}
  LocalCodeStr       string{ITA_D_030e0cd8863df53b}
  ISIN               string{IT0011502660}
  UnderlyingLocalCodeStr string{IT0004827447}
  MaturityYear       uint16{2014}
  MaturityMonth      uint8{12}
  MaturityDay        uint8{19}
  PriceIncrement_dynamic_TableId uint32{3473513}
  OperatingMIC        string{XMIL}
  SegmentMIC          string{XDMI}
  MARKET_LSE_SegmentCode string{cy}
```

## 1.2.3. Multilegs

The sample below illustrates the details of a multileg:

```
instr # 129/59111 = 270591719
  Description      string{+1xTIT4K1.55 -1xTIT4K1.60}
  SecurityType     string{MLEG}
  FOSMarketId      XDMI
  CFICode          string{SXXXXX}
  NbLegs          uint8{2}
  InternalCreationDate Timestamp{2014-11-14 14:16:05:258}
  InternalModificationDate Timestamp{2014-11-17 10:14:06:734}
  InternalSourceId uint16{53}
  InternalAggregationId uint16{69}
  InternalEntitlementId int32{1018}
  LocalCodeStr     string{ITA_D_030e5a20cbb69519}
  OperatingMIC      string{XMIL}
  SegmentMIC        string{XDMI}
  LegFOSInstrumentCode uint32{270590141}
  LegFOSInstrumentCode_1 uint32{270590149}
  LegRatioQty       float64{1}
  LegRatioQty_1     float64{1}
  LegFIXSide        '1'=Buy
  LegFIXSide_1      '2'=Sell
```

## 1.2.4. Bonds

The sample below illustrates the details of a bond:

```
instr # 374/6207 = 784341055
  PriceCurrency      string{EUR}
  Issuer             string{MEDIOBANCA SPA}
  Description        string{MEDIOBANCA-FIX ESXX50 30GN21}
  SecurityType       string{GO}
  StdMaturity        string{202106}
  FOSMarketId        ETLX
  CFICode            string{DBXXX}
  CountryOfIssue     string{IT}
  RoundLot           float64{1000}
  MinTradeVol        float64{1000}
  SecurityGroup      string{DBB}
  InternalCreationDate Timestamp{2014-10-20 04:00:52:840}
  InternalModificationDate Timestamp{2014-11-17 06:30:05:534}
  InternalSourceId    uint16{53}
  InternalAggregationId uint16{53}
  InternalEntitlementId int32{1187}
  LocalCodeStr        string{TLX_0a0000000000666b}
  ISIN                string{IT0005026759}
  SEDOL               string{}
  MaturityYear         uint16{2021}
  MaturityMonth        uint8{6}
  MaturityDay          uint8{30}
  PriceIncrement_dynamic_TableId uint32{3473526}
  OperatingMIC         string{ETLX}
  DynamicVariationRange float64{3}
  StaticVariationRange float64{4}
  MARKET_LSE_NormalMarketSize float64{105000000}
  MARKET_LSE_SectorCode string{DBBN}
  MARKET_LSE_SegmentCode string{DBB}
```



## 1.2.5. Warrants

The sample below illustrates the details of a warrant:

```
instr # 374/6040 = 784340888
  PriceCurrency      string{EUR}
  Symbol             string{X94623}
  Issuer             string{BNP PARIBAS ARBITRAGE ISSUANCE BV}
  Description         string{BNP ARB-EURIBOR(6M) 04AP19}
  SecurityType        string{WAR}
  StdMaturity         string{201904}
  FOSMarketId         ETLX
  ContractMultiplier float64{100}
  CFICode             string{RMXXCX}
  CountryOfIssue      string{NL}
  RoundLot            float64{1}
  MinTradeVol         float64{1}
  SecurityGroup       string{FCE}
  InternalCreationDate Timestamp{2014-09-26 22:13:27:070}
  InternalModificationDate Timestamp{2014-11-17 06:30:05:647}
  InternalSourceId     uint16{53}
  InternalAggregationId uint16{53}
  InternalEntitlementId int32{1187}
  LocalCodeStr         string{TLX_0a0000000000654f}
  ISIN                 string{XS1048946237}
  SEDOL               string{}
  UnderlyingLocalCodeStr string{}
  MaturityYear          uint16{2019}
  MaturityMonth          uint8{4}
  MaturityDay            uint8{4}
  PriceIncrement_dynamic_TableId uint32{3473520}
  OperatingMIC           string{ETLX}
  DynamicVariationRange  float64{30}
  StaticVariationRange   float64{50}
  MARKET_LSE_NormalMarketSize float64{3000000000}
  MARKET_LSE_SectorCode  string{FLNP}
  MARKET_LSE_SegmentCode string{FCE}
```

## 1.3. Specific Referential Tags

The following sections describe additional, specific referential tags available on the IDEM/EURO TLX market data stream:

- [1.3.1. DynamicVariationRange](#)
- [1.3.2. StaticVariationRange](#)
- [1.3.3. MARKET\\_LSE\\_NormalMarketSize](#)
- [1.3.4. MARKET\\_LSE\\_SectorCode \(EURO TLX\)](#)
- [1.3.5. MARKET\\_LSE\\_SegmentCode \(EURO TLX\).](#)

### 1.3.1. DynamicVariationRange

The values of the referential tag **DynamicVariationRange** conveyed on the IDEM/EURO TLX 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.

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

**Table 2      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.

### 1.3.2. StaticVariationRange

The values of the referential tag **StaticVariationRange** conveyed on the IDEM/EURO TLX 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.

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

**Table 3      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.

### 1.3.3. MARKET\_LSE\_NormalMarketSize

The values of the referential tag **MARKET\_LSE\_NormalMarketSize** conveyed on the IDEM/EURO TLX market data stream are disseminated via FeedOS data stream in *Referential*, to detail the size of the transactions.

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

**Table 4** MARKET\_LSE\_NormalMarketSize – technical implementation in QuantFEED®

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 transactions.

### 1.3.4. MARKET\_LSE\_SectorCode (EURO TLX)

The values of the referential tag MARKET\_LSE\_SectorCode conveyed on the EURO TLX market data stream are disseminated via FeedOS data stream in Referential, to identify a division of the market within a Market Segment.

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

**Table 5** MARKET\_LSE\_SectorCode – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_LSE_SectorCode	FeedOS tag name.
Numeric ID	11001	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> , indicating a division of the market within a Market Segment.
Possible Values	DBBN	Domestic Settl Banking Bond Non Plain
	DBBP	Domestic Settl Banking Bond Plain
	DIG	Domestic Settl Italian and Foreign Govies
	DLNP	Domestic Settl Leva E Cap Non Prot
	DPPP	Domestic Settl Cap Prot E Parz Prot
	DSCF	Domestic Settl Corporate, Financial and Supra
	DSEO	Domestic Settl Emerging and Other Bonds
	FBBN	Foreign Settl Banking Bond Non Plain
	FBBP	Foreign Settl Banking Bond Plain
	FLNP	Foreign Settl Leva E Cap Non Prot
	FPPP	Foreign Settl Cap Prot E Parz Prot
	FSCF	Foreign Settl Corporate, Financial and Supra
	FSEO	Foreign Settl Emerging and Other Bonds
	FSG	Foreign Settl Govies Ger Fra
	FSGO	Foreign Settl Govies Other
	FSS	Foreign Settl Sovereign
	IEQ	International Equity

### 1.3.5. MARKET\_LSE\_SegmentCode (EURO TLX)

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

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

**Table 6** MARKET\_LSE\_SegmentCode – technical implementation in QuantFEED®

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.
Possible Values	DBB	Domestic Settled Banking Bonds
	DCE	Domestic Settled Certificates
	DCF	Domestic Settled Corporate, Financial, Supra, Emerging, Other Bonds
	DGS	Domestic Settled Govies & Sovereign
	EEQ	ETLX Equities
	FBB	Foreign Settled Banking Bonds
	FCE	Foreign Settled Certificates
	FCF	Foreign Settled Corporate, Financial, Supra, Emerging, Other
	FGS	Foreign Settled Govies & Sovereign

## 2. Quotation Data

The sections below describe the characteristics of the quotation data on the IDEM/EURO TLX market data stream, in terms of:

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

## 2.1. Quotation Values

The example below shows the possible values of an instrument on the IDEM/EURO TLX market data stream:

```
InstrumentStatusL1
-- 374/6040
    BID: 0.031      0      *NO ORDER*
    ASK: 0          0      *NO ORDER*
    LastPrice                float64{0.031}
    InternalDailyOpenTimestamp    Timestamp{2014-11-17 08:00:00:195}
    InternalDailyCloseTimestamp   Timestamp{2014-11-14 16:50:00:168}
    InternalDailyHighTimestamp    Timestamp{2014-11-17 05:00:53:160}
    InternalDailyLowTimestamp     Timestamp{2014-11-17 06:00:01:363}
    InternalPriceActivityTimestamp Timestamp{2014-11-17 16:30:04:538}
    TradingStatus              15=NewPriceIndication
    DailyClosingPrice           float64{0.0305}
    PreviousDailyClosingPrice    float64{0.031}
    PreviousBusinessDay          Timestamp{2014-11-14}
    CurrentBusinessDay           Timestamp{2014-11-17}
    InternalDailyClosingPriceType char{a}
    PriceActivityMarketTimestamp Timestamp{2014-11-17 16:30:04:537}
    MARKET_LSE_MIT_TradingStatusDetails string{b}
    MARKET_LSE_MIT_TotalAuctionVolume float64{0}
```

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

## 2.2. Trading Status

Each time a modification of the trading status occurs, the values of the quotation tag **TradingStatus** conveyed on the IDEM/EURO TLX 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 **Trading Status** is described in the table below:

**Table 7 Trading Status of the IDEM/EURO TLX market data stream – technical implementation in FeedOS**

Component	Value	Description
Tag Name	TradingStatus	FeedOS tag name.
Numeric ID	9100	FeedOS unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. It is the numeric equivalent of the tag name.
Type	Enum	Enumeration data type.
Format	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , as described below, concerning the characteristics of the trading status.

**Table 7** Trading Status of the IDEM/EURO TLX market data stream – technical implementation in FeedOS

Component	Value	Description
<b>Possible Values</b>	2	Trading Halt
	5	Price Indication
	17	Ready to Trade
	18	Not Available for Trading
	21	Pre-Open

## 2.3. Specific Quotation Tags

The following section describe the specific quotation tags available on the IDEM/EURO TLX market data stream:

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

### 2.3.1. Trade Conditions

The following sections describe the trade conditions available on the IDEM/EURO TLX market data stream:

- [2.3.1.1. MARKET\\_LSE\\_MIT\\_OffBookReportingTradeTypeIndicator](#)
- [2.3.1.2. MARKET\\_LSE\\_MIT\\_AuctionTypeIndicator](#)
- [2.3.1.3. MARKET\\_LSE\\_MIT\\_CrossType.](#)

#### 2.3.1.1. MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator

The values of the quotation tag **MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator** conveyed on the IDEM/EURO TLX 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 below:

**Table 8** MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator – technical implementation in FeedOS

Component	Value	Description
<b>Tag Name</b>	MARKET_LSE_MIT_OffBookReportingTradeTypeIndicator	FeedOS tag name.
<b>Numeric ID</b>	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.
<b>Type</b>	String	String data type.
<b>Format</b>	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , detailing the off book trade type.
<b>Possible Values</b>	17	LC – Late correction
	24	PC – Previous days' contra
	1000	O – Ordinary trade

**Table 8 MARKET\_LSE\_MIT\_OffBookReportingTradeTypeIndicator – technical implementation in FeedOS**

Component	Value	Description
<b>Possible Values</b>	1004	IF – Inter-fund transfer with delayed publication
	1005	NK – Negotiated trade with delayed publication
	1006	NT – Negotiated trade with immediate publication
	1007	OC – Cancellation of OTC trade more than three days old
	1008	OK – Ordinary trade with delayed publication requested
	1009	OT – OTC trade with immediate publication
	1010	SC – SI late correction
	1011	SI – SI trade
	1012	SK – SI trade with delayed publication requested
	1013	TK – OTC trade with delayed publication requested
	1018	BF – Inter-fund cross with delayed publication requested (MTF 1 TBA)
	1019	BC – Cancellation of OTC trade after date of publication (MTF 1 TBA)
	1020	QT – OTC trade (MTF 2 TBA)
	1021	QK – OTC trade with delayed publication requested (MTF 2 TBA)
	1022	QF – Inter-fund cross with delayed publication requested (MTF 2 TBA)
	1023	QC – Cancellation of OTC trade after date of publication (MTF 2 TBA)
	1024	MT – Inter-fund cross with delayed publication requested (MTF 3 TBA)
	1025	MK – OTC trade with delayed publication requested (MTF 3 TBA)
	1026	MF – Inter-fund cross with delayed publication requested (MTF 3 TBA)
	1027	MC – Cancellation of OTC trade after date of publication (MTF 3 TBA)
	1028	CT – OTC trade (MTF 4 TBA)
	1029	CK – OTC trade with delayed publication requested (MTF 4 TBA)
	1031	CC – Cancellation of OTC trade after date of publication (MTF 4 TBA)
	1032	GC – Delayed publication late correction
	2001	BT – OTC trade (MTF 1 TBA)
	2002	CF – Inter-fund cross with delayed publication requested (MTF 4 TBA)
	2003	LT – Late trade – after hours
	3001	BK – OTC Trade with delayed publication requested (MTF 1 TBA)

### 2.3.1.2. MARKET\_LSE\_MIT\_AuctionTypeIndicator

The values of the quotation tag **MARKET\_LSE\_MIT\_AuctionTypeIndicator** conveyed on the IDEM/EURO TLX 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 9** 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	AESP
	B	EDSP
	C	Closing Auction
	E	Resume Auction
	F	Periodic Auction
	O	Opening Auction
	P	OPA

### 2.3.1.3. MARKET\_LSE\_MIT\_CrossType

The values of the quotation tag **MARKET\_LSE\_MIT\_CrossType** conveyed on the IDEM/EURO TLX market data stream are disseminated via FeedOS data stream in *Context* to detail the cross 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\_CrossType** is described in the table below:

**Table 10** MARKET\_LSE\_MIT\_CrossType – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_LSE_MIT_CrossType	FeedOS tag name.
Numeric ID	15953	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 <b>exchange specific value</b> , detailing the cross type.



**Table 10** MARKET\_LSE\_MIT\_CrossType – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	5	Internal Cross
	6	Internal BTF
	7	Committed Cross
	8	Committed BTF
	9	EG1
	10	EG2

### 2.3.2. Other Values

The following sections describe the specific quotation tags available on the IDEM/EURO TLX market data stream:

- [2.3.2.1. MARKET\\_LSE\\_MIT\\_TradingStatusDetails](#)
- [2.3.2.2. MARKET\\_LSE\\_MIT\\_TotalAuctionVolume](#).

#### 2.3.2.1. 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 IDEM/EURO TLX 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 11** 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.
<b>XDMI Values</b>		
Possible Values	B	Post Session
	C	Consultation Start
	E	No Cancel Period
	F	Consultation End
	I	Prohibited
	M	Mini Batch
	N	Market Operation Centre Intervention
	O	Opening
	P	Pre-opening scheduled transition

Table 11 MARKET\_LSE\_MIT\_TradingStatusDetails – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	S	Continuous Trading Session
	Z	Interrupted
	c	Not Trading
	f	Forbidden
	h	Hidden
	r	Pre-opening extension/Intraday auction
	s	Suspended
ETLX Values		
Possible Values	H	Halt
	J	Halt – Matching partition Suspended
	K	Halt – System Suspended
	L	Halt – Instrument Level Circuit Breaker Tripped
	M	Trading Stop – Matching Partition Suspended
	N	Trading Stop – System Suspended
	O	Trading Stop – Instrument Level Circuit Breaker Tripped
	P	Halt – Regulatory Halt
	Q	Quoting Period
	R	Resume Order Deletion period
	S	Trading Stop
	T	Regular Trading/Start Trade Reporting
	b	Post-Close
	c	Market Closed
	w	No Active Session
	x	End of Post Close
	y	Pre-Trading (Start of Trading)
	z	Closing Price Publication

### 2.3.2.2. MARKET\_LSE\_MIT\_TotalAuctionVolume

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

- 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 12** 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 MBL Snapshot is provided every 150 ms. The BBO is real-time.

## 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. The settlement price is handled when provided by the market.

## 4. Session Kinematics

The table below describes the main trading and auction phases for the instruments of the Borsa Italiana available on the IDEM/EURO TLX market data stream:

**Table 13** Trading Hours and associated Trading Phases for the instruments available on the Borsa Italiana (expressed in the exchange local time)

Trading Hours	Trading Phase
07:00 – 08:30	Trading Start
08:30 – 09:00	Opening Auction Call
09:00 – 12:00	Continuous Trading 1
12:00 – 12:15	Intraday Auction Call
12:15 – 16:50	Continuous Trading 2
16:50 – 17:00	Closing Auction Call
17:00 – 18:15	Post Close
08:00 – 18:15	Trade Reporting

\* 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.

## 5. Special Behavior

The following sections describe the special behavior of the IDEM/EURO TLX market data stream:

- [5.1. Absent Theoretical Auction Quantity.](#)

### 5.1. Absent Theoretical Auction Quantity

The values of the Theoretical Auction Quantity (expressed by the tag `LastAuctionVolume`) are not disseminated via IDEM/EURO TLX market data stream during the auction phase, as shown in the example below:

```
VU 07:58:09:425 270551529 LastAuctionPrice=20500 LastAuctionImbalanceVolume=3
LastAuctionImbalanceSide=B (there is no LastAuctionVolume)
VU 07:58:09:904 270551529 LastAuctionImbalanceVolume=8
VU 07:58:17:951 270551529 LastAuctionPrice=20505 LastAuctionImbalanceVolume=4
VU 07:58:28:848 270551529 LastAuctionPrice=20515
VU 07:58:29:072 270551529 LastAuctionPrice=20525 LastAuctionImbalanceVolume=1
VU 07:58:32:761 270551529 LastAuctionImbalanceVolume=2
VU 07:58:35:316 270551529 LastAuctionImbalanceVolume=3
VU 07:58:37:584 270551529 LastAuctionPrice=20535
VU 07:58:42:161 270551529 LastAuctionImbalanceVolume=13
VU 07:58:42:872 270551529 LastAuctionPrice=20540 LastAuctionImbalanceVolume=2
VU 07:58:44:294 270551529 LastAuctionImbalanceVolume=4
VU 07:58:50:398 270551529 LastAuctionImbalanceVolume=5
```

## 6. 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](mailto:rts-support@spcapitaliq.com)
- Web: <https://support.quanthouse.com>.