

S&P Capital IQ Real-Time Solutions

FeedOS™ Feed Description

MILAN MIT

Reference n°: 20150513 – 25496 – 25747 – 26313



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Reference 20150513 – 25496 – 25747 – 26313
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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

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FEEDOS™ MILAN 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 MILAN 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 MILAN 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 MILAN MIT market data stream:

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

1.1.1. Markets

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

Table 1 List of markets available on the MILAN MIT market data stream

FeedOS Market ID	Market
MOTX	Electronic Bond Market
SEDX	Securitised Derivative Market
ETFP	Electronic Open-End Funds and ETC Market
MTAH	Borsa Italiana Trading After Hours
MTAA	Electronic Share Market

Note TAH (Trading After Hours) is the Multilateral Trading Facility of Borsa Italiana dedicated to trading 'after hours', open to both retail and professional investors. A selection of the most liquid shares traded on MTA (including MTA International) are admitted to trading on TAH.

The trading hours for TAH are 18.00 – 20.30 in continuous trading.

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

```
MARKETS
market # 36      CC=IT/ITALY/MILANO,DESCR=ELECTRONIC BOND MARKET,WEB=www.borsaitaliana.it
MIC = MOTX
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
market # 46      CC=IT/ITALY/MILANO,DESCR=SECURITISED DERIVATIVES
MARKET,WEB=www.borsaitaliana.it
MIC = SEDX
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
market # 47      CC=IT/ITALY/MILANO,DESCR=ELECTRONIC OPEN-END FUNDS AND ETC
MARKET,WEB=www.borsaitaliana.it
MIC = ETFP
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
market # 143     CC=IT/ITALY/MILAN,DESCR=BORSA ITALIANA TRADING AFTER
HOURS,WEB=www.borsaitaliana.it,OLD=JASR,SEQNUM=1
MIC = MTAH
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
market # 285     CC=IT/ITALY/MILANO,DESCR=ELECTRONIC SHARE MARKET,WEB=www.borsaitaliana.it
MIC = MTAA
TimeZone = Europe/Rome
Country = IT
NbMaxInstruments = 2000000
```

1.1.2. Branches

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

```
BRANCHES
{ MOTX GO DBFXXX } qty: 1207
{ MOTX GO DBVXXX } qty: 148
{ MOTX GO DBXXXX } qty: 325
{ MOTX GO DBZXXX } qty: 43
{ MOTX NONE DBFXXX } qty: 556
{ MOTX NONE DBVXXX } qty: 86
{ MOTX NONE DBXXXX } qty: 108
{ MOTX NONE DBZXXX } qty: 85
{ SEDX NONE RWXXXB } qty: 21
{ SEDX NONE RWXXXE } qty: 1150
{ SEDX NONE RWXXXX } qty: 1643
{ SEDX WAR RWBCCX } qty: 2
{ SEDX WAR RWCCCX } qty: 175
{ SEDX WAR RWCCPX } qty: 122
{ SEDX WAR RWICCX } qty: 816
{ SEDX WAR RWICPX } qty: 594
{ SEDX WAR RWSCCX } qty: 2090
{ SEDX WAR RWSCPX } qty: 1148
{ SEDX WAR RWTCCX } qty: 39
{ SEDX WAR RWTCPX } qty: 36
{ SEDX WAR RWXCCX } qty: 6562
{ SEDX WAR RWXCPX } qty: 4007
{ SEDX WAR RWXXCX } qty: 193
{ SEDX WAR RWXXPX } qty: 129
{ SEDX WAR RWXXXB } qty: 65
{ SEDX WAR RWXXXE } qty: 4
{ SEDX WAR RWXXXX } qty: 1436
{ ETFP ETF EUXXXX } qty: 716
{ ETFP NONE EUXXCX } qty: 208
{ ETFP NONE EUXXXX } qty: 239
{ MTAH CS ESXXXX } qty: 5
{ MTAH CS EXXXXX } qty: 78
{ MTAA CB DCXXXX } qty: 23
{ MTAA CS ESXXXX } qty: 14
{ MTAA CS EXXXXX } qty: 355
{ MTAA ETF EUCXXX } qty: 25
{ MTAA NONE EUCXXX } qty: 2
{ MTAA NONE EXXXXX } qty: 52
{ MTAA NONE MXXXXX } qty: 7
{ MTAA NONE RXXXXX } qty: 54
{ MTAA WAR RWXXXA } qty: 5
{ MTAA WAR RWXXXB } qty: 2
{ MTAA WAR RWXXXE } qty: 4
{ MTAA WAR RWXXXX } qty: 36
{ MTAA WAR RXXXXX } qty: 3
```

1.2. Types of Instruments

The following sections describe the instruments available on the MILAN MIT market data stream, according to their type:

- [1.2.1. Equities](#)
- [1.2.2. Bonds](#)
- [1.2.3. Warrants](#)
- [1.2.4. Exchange Traded-Funds.](#)

1.2.1. Equities

The sample below illustrates the details of an equity:

```
instr # 285/1034 = 597689354
  PriceCurrency      string{EUR}
  Symbol             string{TIT}
  Issuer             string{TELECOM ITALIA}
  Description         string{TELECOM ITALIA}
  SecurityType       string{CS}
  FOSMarketId        MTAA
  CFICode            string{EXXXXX}
  RoundLot           float64{1}
  MinTradeVol        float64{1}
  SecuritySubType     string{IT}
  SecurityStatus      uint8{1}
  InternalCreationDate Timestamp{2012-07-03 17:31:03:436}
  InternalModificationDate Timestamp{2015-05-13 04:00:45:416}
  InternalSourceId    uint16{30}
  InternalEntitlementId int32{1015}
  LocalCodeStr        string{342}
  ISIN               string{IT0003497168}
  PriceIncrement_dynamic_TableId uint32{1966203}
  OperatingMIC         string{XMIL}
  SegmentMIC           string{MTAA}
  DynamicVariationRange float64{3.5}
  StaticVariationRange float64{5}
  MARKET_LSE_NormalMarketSize float64{24000}
  MARKET_LSE_SectorCode string{IFMB}
  MARKET_LSE_SegmentCode string{MB1}
```

1.2.2. Bonds

The sample below illustrates the details of a bond:

```
instr # 36/3976 = 75501448
  PriceCurrency      string{EUR}
  Issuer             string{MINISTERO DELL' ECONOMIA E FINANZE}
  Description        string{BOT ZC OT15 S EUR}
  SecurityType       string{GO}
  FOSMarketId        MOTX
  CFICode            string{DBZXXX}
  RoundLot           float64{1000}
  MinTradeVol        float64{1000}
  SecuritySubType    string{ZC}
  SecurityStatus     uint8{1}
  InternalCreationDate Timestamp{2015-04-29 04:02:05:603}
  InternalModificationDate Timestamp{2015-04-30 04:45:00:460}
  InternalSourceId   uint16{30}
  InternalAggregationId uint16{30}
  InternalEntitlementId int32{1016}
  LocalCodeStr       string{775571}
  ISIN               string{IT0005105140}
  PriceIncrement_static float64{0.001}
  MaturityYear        uint16{2015}
  MaturityMonth        uint8{10}
  MaturityDay          uint8{30}
  OperatingMIC         string{XMIL}
  SegmentMIC           string{MOTX}
  DynamicVariationRange float64{0.25}
  StaticVariationRange float64{0.25}
  MARKET_LSE_NormalMarketSize float64{25000}
  MARKET_LSE_SectorCode string{IGD}
  MARKET_LSE_SegmentCode string{DMO}
```


1.2.3. Warrants

The sample below illustrates the details of a warrant:

```
instr # 46/32733 = 96501725
  PriceCurrency      string{EUR}
  Symbol             string{UI607J}
  Issuer             string{UNICREDIT}
  Description         string{UCMB0,1SLP10A040915}
  SecurityType       string{WAR}
  StrikePrice        float64{10}
  FOSMarketId        SEDX
  CFICode            string{RWSCPX}
  RoundLot           float64{1000}
  MinTradeVol        float64{1000}
  SecuritySubType    string{WP}
  SecurityStatus     uint8{1}
  InternalCreationDate Timestamp{2015-04-01 04:03:17:839}
  InternalModificationDate Timestamp{2015-05-04 04:45:00:616}
  InternalSourceId   uint16{30}
  InternalAggregationId uint16{30}
  InternalEntitlementId int32{1015}
  UnderlyingSymbol   string{MB}
  UnderlyingISIN     string{IT00000062957}
  LocalCodeStr       string{774357}
  ISIN               string{IT0005097255}
  MaturityYear       uint16{2015}
  MaturityMonth      uint8{9}
  MaturityDay        uint8{4}
  PriceIncrement_dynamic_TableId uint32{1966204}
  OperatingMIC        string{XMIL}
  SegmentMIC          string{SEDX}
  DynamicVariationRange float64{50}
  StaticVariationRange float64{70}
  MARKET_LSE_NormalMarketSize float64{15000}
  MARKET_LSE_SectorCode string{ICW}
  MARKET_LSE_SegmentCode string{SD}
```

1.2.4. Exchange Traded-Funds

The sample below illustrates the details of an exchange traded-fund:

```
instr # 47/2212 = 98568356
  PriceCurrency      string{EUR}
  Symbol             string{B500}
  Issuer             string{AMUNDI}
  Description         string{AMUNDI ETF S&P 500 BUYBACK UCITS ETF EUR}
  SecurityType       string{ETF}
  FOSMarketId        ETFP
  CFICode            string{EUXXXX}
  RoundLot           float64{1}
  MinTradeVol        float64{1}
  SecuritySubType    string{TF}
  SecurityStatus     uint8{1}
  InternalCreationDate Timestamp{2015-05-07 04:01:25:279}
  InternalModificationDate Timestamp{2015-05-07 04:45:01:064}
  InternalSourceId   uint16{30}
  InternalAggregationId uint16{30}
  InternalEntitlementId int32{1015}
  LocalCodeStr       string{773359}
  ISIN               string{FR0012395473}
  PriceIncrement_dynamic_TableId uint32{1966202}
  OperatingMIC        string{XMIL}
  SegmentMIC          string{ETFP}
  DynamicVariationRange float64{2.5}
  StaticVariationRange float64{5}
  MARKET_LSE_NormalMarketSize float64{1300}
  MARKET_LSE_SectorCode string{ETFB}
  MARKET_LSE_SegmentCode string{ETF}
```

1.3. Specific Referential Tags

The following sections describe the specific referential tags available on the MILAN MIT market data stream:

- [1.3.1. SecuritySubType](#)
- [1.3.2. SecurityStatus](#)
- [1.3.3. OperatingMIC](#)
- [1.3.4. SegmentMIC](#)
- [1.3.5. DynamicVariationRange](#)
- [1.3.6. StaticVariationRange.](#)
- [1.3.7. MARKET_LSE_NormalMarketSize](#)
- [1.3.8. MARKET_LSE_SectorCode](#)
- [1.3.9. MARKET_LSE_SegmentCode.](#)

1.3.1. SecuritySubType

The values of the referential tag **SecuritySubType** conveyed on the MILAN MIT market data stream are disseminated via FeedOS data stream in *Referential* to specify additional details about the securities associated with the market CFI Codes.

FeedOS implementation of the values currently available for the tag SecuritySubType is described in the table below:

Table 2 SecuritySubType – technical implementation in FeedOS

Component	Value	Description
Tag Name	SecuritySubType	FeedOS tag name.
Numeric ID	762	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 securities associated with the market CFI Codes.
Possible Values	CF	Closed-End Fund
	CN	Convertible Bond
	FR	Floating Rate
	FS	Foreign Share
	FX	Fixe Rate
	IE	International Equity
	IP	Investment Products
	IT	Italian Equity
	LC	Leverage Products Bull
	LE	Leverage Products Exotic
	LP	Leverage Products Bear
	MC	Multi Coupon
	OC	One Coupon
	PS	Professional Segment
	RT	Right
	RV	Reverse
	SC	Step Coupon
	SV	Special Vehicles
	TA	Tradable Fund during Auction
	TC	Tradable Commodities
	TF	Tradable Fund
	TN	Tradable Notes
	TR	Tradable In-Regulated Segment
	UN	Units
	WC	Leverage Products Covered Warrant Call
	WP	Leverage Products Covered Warrant Put
	WR	Warrant
	ZC	Zero Coupon

1.3.2. SecurityStatus

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

FeedOS implementation of the values currently available for the tag SecurityStatus is described in the table below:

Table 3 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 exchange specific value , indicating the status of an instrument.
Possible Values	1	Active (Default value)
	2	Inactive
	3	Suspended

1.3.3. OperatingMIC

The values of the referential tag **OperatingMIC** conveyed on the MILAN MIT market data stream are disseminated via FeedOS data stream in *Referential* to specify the parent MIC.

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

Table 4 OperatingMIC – technical implementation in FeedOS

Component	Value	Description
Tag Name	OperatingMIC	FeedOS tag name.
Numeric ID	9533	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 , specifying the parent MIC.
Possible Values	XMIL	Borsa Italiana

1.3.4. SegmentMIC

The values of the referential tag **SegmentMIC** conveyed on the MILAN MIT market data stream are disseminated via FeedOS data stream in *Referential* to specify the child MIC.

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

Table 5 SegmentMIC – technical implementation in FeedOS

Component	Value	Description
Tag Name	SegmentMIC	FeedOS tag name.
Numeric ID	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 data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , specifying the child MIC.
Possible Values	ETFP	Electronic Open-End Funds and ETC Market
	MOTX	Electronic Bond Market
	MTAA	Electronic Share Market
	MTAH	Borsa Italiana Trading After Hours
	SEDX	Securitized Derivatives Market

1.3.5. DynamicVariationRange

The values of the referential tag **DynamicVariationRange** conveyed on the MILAN 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 6 DynamicVariationRange – technical implementation in FeedOS

Component	Value	Description
Tag Name	DynamicVariationRange	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 exchange specific percentile value , detailing the maximum permitted value around the dynamic price.

1.3.6. StaticVariationRange

The values of the referential tag **StaticVariationRange** conveyed on the MILAN 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 7 `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 exchange specific percentile value , detailing the maximum permitted value around the static price.

1.3.7. `MARKET_LSE_NormalMarketSize`

The referential tag `MARKET_LSE_NormalMarketSize` is 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 8 `MARKET_LSE_NormalMarketSize` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_LSE_NormalMarketSize</code>	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 exchange specific value , detailing the size of the transactions.

1.3.8. `MARKET_LSE_SectorCode`

The referential tag `MARKET_LSE_SectorCode` is 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 9 `MARKET_LSE_SectorCode` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_LSE_SectorCode</code>	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 exchange specific value , indicating a division of the market within a Market Segment.
Possible Values	ATFA	ETF AUCTION
	BTES	BORSA ITALIANA TEST SECTOR
	ICC	ITALIAN CORP BONDS CLEAN

Table 9 MARKET_LSE_SectorCode – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	ICD	ITALIAN CORP BONDS DIRTY
	IGC	ITALIAN GOVT BONDS CLEAN
	IGD	ITALIAN GOVT BONDS DIRTY
	ESC	EUROMOT STRUCTURED BONDS CLEAN
	ESD	EUROMOT STRUCTURED BONDS DIRTY
	EVC	EUROMOT VANILLA BONDS CLEAN
	EVD	EUROMOT VANILLA BONDS DIRTY
	ETCA	ETC LEVERAGED
	ETCB	ETC NOT LEVERAGED
	ETFA	ETF LINKED FIXED INCOME
	ETFB	ETF LINKED EQUITY/COMMODITIES
	ETFC	ETF LINKED SHORT/STRUCT INDEX
	ETFD	ETF LINKED LEVERAGED
	ETFE	ETF STRUCTURED NOT LEVERAGED
	ETFF	ETF STRUCTURED LEVERAGED
	ETFG	NON-UCITS ETF
	ETFH	ETF ON SECURITIES BASKET
	ETFI	ACTIVE ETF
	ETFM	OTHER ETFs
	ETFP	ETF OF ETFs
	IM1C	INV. COMP. CONV. BONDS
	IM1I	INV. COMP. SHARES
	IM1R	INV. COMP. PRE-EMPTIVE RIGHTS
	IM1W	INV. COMP. WARRANTS
	IM1X	INV. COMP. INSTRUMENTS NO MO
	IM2C	INV. COMP. CONV. BONDS
	IM2I	INV. COMP. SHARES
	IM2Q	CLOSED FUNDS
	IM2R	INV. COMP. PRE-EMPTIVE RIGHTS
	IM2W	INV. COMP. WARRANTS
	IM2X	INV. COMP. INSTRUMENTS NO MO
	IL3R	UNEX AUC RIGHT LONG TIME
	IS3R	UNEX AUC RIGHT SHORT TIME
	IL4S	SINGLE AUCTION LONG TIME
	IL4Z	SINGLE AUCTION LONG MO
	IS4S	SINGLE AUCTION SHORT TIME
	IS4Z	SINGLE AUCTION SHORT MO
	AI1W	AIM ITALIA WARRANTS
	AI1C	AIM ITALIA CONV. BONDS
	AI1I	AIM ITALIA INVESTMENT CO'S
	AI1R	AIM ITALIA PRE-EMPTIVE RIGHTS

Table 9 MARKET_LSE_SectorCode – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	AI1S	AIM ITALIA SHARES
	AI1X	AIM ITALIA INSTRUMENT NO MO
	AI2C	AIM ITALIA CONV. BONDS
	AI2I	AIM ITALIA INVESTMENT CO'S
	AI2R	AIM ITALIA PRE-EMPTIVE RIGHTS
	AI2S	AIM ITALIA SHARES
	AI2W	AIM ITALIA WARRANTS
	AI2X	AIM ITALIA INSTRUMENT NO MO
	AIUR	AIM ITALIA UNEX AUC RIGHTS
	MAC1	MAC Daily Auction
	IBC	BLUE CHIPS CONV. BONDS
	IBR	BLUE CHIPS PRE-EMPTIVE RIGHTS
	IBS	BLUE CHIPS NO SPMIB SHARES
	IBSS	BLUE CHIPS SPMIB SHARES
	IBW	BLUE CHIPS WARRANTS
	IBX	BLUE CHIPS INSTRUMENTS NO MO
	MTI	MTAI SHARES
	IRC	STAR CONV. BONDS
	IRR	STAR PRE-EMPTIVE RIGHTS
	IRS	STAR SHARES
	IRW	STAR WARRANTS
	IRX	STAR INSTRUMENTS NO MO
	IS1C	STANDARD 1 CONV. BONDS
	IS1R	STANDARD 1 PRE-EMPTIVE RIGHTS
	IS1S	STANDARD 1 SHARES
	IS1W	STANDARD 1 WARRANTS
	IS1X	STANDARD 1 INSTRUMENTS NO MO
	IS2C	STANDARD 2 CONV. BONDS
	IS2R	STANDARD 2 PRE-EMPTIVE RIGHTS
	IS2S	STANDARD 2 SHARES
	IS2W	STANDARD 2 WARRANTS
	IS2X	STANDARD 2 INSTRUMENTS NO MO
	IX1C	EXPANDI 1 CONV. BONDS
	IX1E	EXPANDI 1 REAL-SHARES
	IX1R	EXPANDI 1 PRE-EMPTIVE RIGHTS
	IX1S	EXPANDI 1 SHARES
	IX1W	EXPANDI 1 WARRANTS
	IX1X	EXPANDI 1 INSTRUMENTS NO MO
	IX2C	EXPANDI 2 CONV. BONDS
	IX2R	EXPANDI 2 PRE-EMPTIVE RIGHTS
	IX2S	EXPANDI 2 SHARES

Table 9 MARKET_LSE_SectorCode – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	IX2W	EXPANDI 2 WARRANTS
	IX2X	EXPANDI 2 INSTRUMENTS NO MO
	TOA	TOB ACCOUNTING
	TOR	TOB ROLLING
	ICW	COVERED WARRANTS
	IEW	EXOTIC WARRANTS
	IIC	INVESTMENT CERTIFICATES
	ILC	LEVERAGED CERTIFICATES
	IICQ	INVESTMENT PRODUCTS
	ILCQ	LEVERAGED PRODUCTS
	USC	UNREG STRUCTURED BONDS CLEAN
	USD	UNREG STRUCTURED BONDS DIRTY
	UVC	UNREG VANILLA BONDS CLEAN
	UVD	UNREG VANILLA BONDS DIRTY
	UTFA	UNREGULATED ETF

1.3.9. MARKET_LSE_SegmentCode

The referential tag **MARKET_LSE_SegmentCode** is disseminated via FeedOS market data stream in *Referential* to uniquely identify a specific trading area as defined by the exchange.

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

Table 10 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 exchange specific value , uniquely identifying a specific trading area.
Possible Values	ATF	ATF 1
	BTES	BORSA ITALIANA TEST SEGMENT
	DMO	DOMESTIC MOT
	EMO	EURO MOT
	ETC	ETC 1
	ETF	ETF 1
	M1C	MTF 1
	M2C	MTF 2
	M3	UN-EXERCISED RIGHTS
	M4	SINGLE AUC SECURITIES
	MA1	AIM ITALIA 1

Table 10 MARKET_LSE_SegmentCode – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	MA2	AIM ITALIA 2
	MA3	AIM ITALIA 3
	MAC	MAC
	MB1	BLUE CHIPS
	MM1	MTA INTERNATIONAL
	MR1	STAR
	MS1	STANDARD 1
	MS2	STANDARD 2
	MX1	EXPANDI 1
	MX2	EXPANDI 2
	OP1	TAKE OVER BIDS
	SD	SEDEX 1
	SDQ	SEDEX 2
	UMO	UNREGULATED MOT
	UTF	UTF 1

2. Quotation Data

The following sections describe the characteristics of the quotation data on the MILAN MIT 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 MILAN MIT market data stream:

```
InstrumentStatusL1
-- 285/1034
    BID: 1.088      154271 @12
    ASK: 1.09       230332 @18
    LastPrice              float64{1.089}
    LastTradeQty           float64{15000}
    DailyHighPrice         float64{1.097}
    DailyLowPrice          float64{1.06}
    DailyTotalVolumeTraded float64{114637132}
    DailyTotalAssetTraded  float64{123917116.002001}
    LastTradePrice         float64{1.089}
    LastTradeTimestamp     Timestamp{2015-05-13 14:32:52:959}
    InternalDailyOpenTimestamp Timestamp{2015-05-13 07:00:08:106}
    InternalDailyCloseTimestamp Timestamp{2015-05-12 15:30:32:113}
    InternalDailyHighTimestamp Timestamp{2015-05-13 12:26:40:840}
    InternalDailyLowTimestamp Timestamp{2015-05-13 11:15:09:701}
    InternalPriceActivityTimestamp Timestamp{2015-05-13 14:33:04:855}
    TradingStatus          17=ReadyToTrade
    DailyOpeningPrice       float64{1.07}
    PreviousDailyTotalVolumeTraded float64{211527481}
    PreviousDailyTotalAssetTraded float64{225036853.556999}
    PreviousDailyClosingPrice float64{1.075}
    PreviousBusinessDay     Timestamp{2015-05-12}
    CurrentBusinessDay      Timestamp{2015-05-13}
    DailyTotalOffBookVolumeTraded float64{0}
    DailyTotalOffBookAssetTraded float64{0}
    PreviousInternalDailyClosingPriceType char{a}
    PriceActivityMarketTimestamp Timestamp{2015-05-13 14:33:04:846}
    InternalDailyBusinessDayTimestamp Timestamp{2015-05-13 07:00:08:106}
    MARKET_LSE_MIT_TotalAuctionVolume float64{386121}
    MARKET_MILAN_MIT_TradingStatusDetails char{T}
```

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 MILAN 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 11 `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 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.
Possible Values	2	Trading Halt
	3	Resume
	5	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 the MILAN 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 available on the MILAN MIT market data stream:

- [2.3.1.1. `MARKET_LSE_MIT_CrossType`](#)
- [2.3.1.2. `MARKET_MILAN_MIT_AuctionTypeIndicator`.](#)

2.3.1.1. `MARKET_LSE_MIT_CrossType`

Each time a cross trade occurs, the values of the quotation context tag **`MARKET_LSE_MIT_CrossType`** conveyed on the MILAN MIT market data stream are disseminated via FeedOS data stream in *Context* to detail the type of cross 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_LSE_MIT_CrossType` is described in the table below:

Table 12 `MARKET_LSE_MIT_CrossType` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_LSE_MIT_CrossType</code>	FeedOS tag name.
Numeric ID	15953	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	String data type.
Format	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , detailing the type of cross trade.
Possible Values	5	Internal Cross
	6	Internal BTF
	7	Committed Cross
	8	Committed BTF

2.3.1.2. `MARKET_MILAN_MIT_AuctionTypeIndicator`

The values of the quotation tag `MARKET_MILAN_MIT_AuctionTypeIndicator` conveyed on the MILAN 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_MILAN_MIT_AuctionTypeIndicator` is described in the table below:

Table 13 `MARKET_MILAN_MIT_AuctionTypeIndicator` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_MILAN_MIT_AuctionTypeIndicator</code>	FeedOS tag name.
Numeric ID	16350	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 auction type.
Possible Values	C	Closing Auction
	O	Opening Auction
	A	Re-Opening (AESP or Resume Action)
	P	OPA

2.3.2. Other Values

The following subsections describe specific quotation tags available on the MILAN MIT market data stream:

- [2.3.2.1. `InternalDailyClosingPriceType`](#)
- [2.3.2.2. `MARKET_LSE_MIT_HaltReason`](#)
- [2.3.2.3. `MARKET_LSE_MIT_TotalAuctionVolume`](#)

- [2.3.2.4. MARKET_MILAN_MIT_TradingStatusDetails.](#)

2.3.2.1. InternalDailyClosingPriceType

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

Table 14 InternalDailyClosingPriceType – technical implementation in FeedOS

Component	Value	Description
Tag Name	InternalDailyClosingPriceType	FeedOS tag name.
Numeric ID	9155	FeedOS unique ID disseminated on 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 internal specific value , detailing the type of daily closing price, as described below.
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. MARKET_LSE_MIT_HaltReason

Each time an instrument is halted from trading, the values of the quotation tag **MARKET_LSE_MIT_HaltReason** conveyed on the MILAN MIT market data stream are disseminated via FeedOS's 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 15 `MARKET_LSE_MIT_HaltReason` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_LSE_MIT_HaltReason</code>	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 exchange specific value , detailing the reason of halting an instrument.
Possible Values	H	Halt Note: When an instrument is no longer halted, the tag <code>MARKET_LSE_MIT_HaltReason</code> is reset by sending a value with the syntax UNKNOWN.
	S	Trading Stop
	Space	Reason not available

2.3.2.3. `MARKET_LSE_MIT_TotalAuctionVolume`

The values of the quotation tag `MARKET_LSE_MIT_TotalAuctionVolume` conveyed on the MILAN MIT 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 16 `MARKET_LSE_MIT_TotalAuctionVolume` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_LSE_MIT_TotalAuctionVolume</code>	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 exchange specific value , indicating the auction's volume.

2.3.2.4. `MARKET_MILAN_MIT_TradingStatusDetails`

Each time a modification of the instrument status occurs, the values of the quotation tag `MARKET_MILAN_MIT_TradingStatusDetails` conveyed on the MILAN 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_MILAN_MIT_TradingStatusDetails is described in the table below:

Table 17 MARKET_MILAN_MIT_TradingStatusDetails – technical implementation in FeedOS

Component	Value	Description
Tag Name	MARKET_MILAN_MIT_TradingStatusDetails	FeedOS tag name.
Numeric ID	14950	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 exchange specific value , detailing the current status of an instrument.
Possible Values	H	Halt
	T	Regular (Continuous Trading/Start of Trade Reporting)
	R	Resume Order Deletion period
	S	Trading Stop
	a	Opening Auction Call (Pre-Open)
	b	Post-Close
	c	Market Close (Closed)
	d	Closing Auction Call
	e	Re-Opening (AESP or Resume) Auction Call
	g	OPA Auction Call
	u	Closing Price Cross
	v	End of Trade Reporting
	w	No Active Session
	x	End of Post Close
	y	Pre-Trading (Start of Trading)
	z	Closing Price Publication

2.4. MBL and MBO Data *

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

3. Official Closing Price

The closing price is provided by the market. If it is not sent by the market, the last trade is used instead. When a stock splits, the closing price is adjusted after the closing. There is no settlement price.

* 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 special behavior of the MILAN MIT market data stream:

- [4.1. Level1 Market Data Kinematics – Halted Instruments Behavior.](#)

4.1. Level1 Market Data Kinematics – Halted Instruments Behavior

In the kinematics **before 2015-02-23**, halted instruments were closing (Trading Status 18=Not Available for Trading) at the end of the trading day, and then reopen (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	05:00:00:054.776	597689699	MARKET_MILAN_MIT_TradingStatusDetails=y TradingStatus=18					
TE	05:00:00:054.825	597689699	*	*	1.488	52214@1	*	*
TE	05:00:00:054.827	597689699	*	*	*	*	1.49	9192@1
TE	05:00:00:054.827	597689699	*	*	*	*	1.49	9992@2
VU	05:00:00:054.839	597689699	PreviousDailyClosingPrice=1.488					
TE	05:52:25:320.355	597689699	*	*	!	0	!	0
VU	15:55:00:378.977	597689699	MARKET_MILAN_MIT_TradingStatusDetails=c					
TE	21:05:00:136	597689699	*	*	!	0	!	0

In the kinematics **after 2015-02-23**, halted instruments remain halted (Trading Status 2=Trading Halt) during market closing and opening, until they are traded again, as shown in the example below:

VU	05:00:00:054.776	597689699	MARKET_MILAN_MIT_TradingStatusDetails=y TradingStatus=2					
TE	05:00:00:054.825	597689699	*	*	1.488	52214@1	*	*
TE	05:00:00:054.827	597689699	*	*	*	*	1.49	9192@1
TE	05:00:00:054.827	597689699	*	*	*	*	1.49	9992@2
VU	05:00:00:054.839	597689699	PreviousDailyClosingPrice=1.488					
TE	05:52:25:320.355	597689699	*	*	!	0	!	0
VU	15:55:00:378.977	597689699	MARKET_MILAN_MIT_TradingStatusDetails=c					
TE	21:05:00:136	597689699	*	*	!	0	!	0

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.quanhouse.com>.