

S&P Capital IQ Real-Time Solutions

QuantFEED® Developer's Notice

SGX EQUITIES & SGX DERIVATIVES – Feeds Update

Reference n°: 18500 – 19987 – 20140523

Effective as of: **09 June 2014**

Action required from users: **Attention Required (Optional)**



**S&P
CAPITAL IQ**

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S&P Capital IQ Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Developer's Notice
Reference 18500 – 19987 – 20140523
May 28, 2014

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UPDATE OF THE SGX EQUITIES & SGX DERIVATIVES MARKET DATA STREAMS

To reflect the changes caused by the dissemination of new values on the SGX EQUITIES & SGX DERIVATIVES market data streams, S&P Capital IQ Real-Time Solutions has decided to enhance the content of QuantFEED®.

This developer's notice contains late-breaking information about the implementation of this modification in your applications, which may not be included otherwise in the published documentation. The topics this notice covers include:

- [1. Update Summary](#)
- [2. Functional Description](#)
- [3. QuantFEED® Technical Implementation](#)
- [4. Finding the Latest Information.](#)

1. Update Summary

Table 1 Current update summary

Notice Reference	18500 – 19987 – 20140523
Exchanges	SGX EQUITIES & SGX DERIVATIVES
Concerned MICs	XSES & XSIM
Internal Source ID	221 & 159
Effective Date	2014-06-09
Impact	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags
Action required	Attention Required (Optional)

2. Functional Description

Effective Monday, **June 09, 2014**, S&P Capital IQ Real-Time Solutions enhances the content of the referential and quotation data to accommodate the new information disseminated on the SGX EQUITIES & SGX DERIVATIVES market data streams, as described below:

- [2.1. Changes to the Referential Data on the SGX EQUITIES](#)
- [2.2. Changes to the Referential Data on the SGX DERIVATIVES](#)
- [2.3. Changes to the Quotation Data on the SGX EQUITIES](#)

- [2.4. Changes to the Quotation Data on the SGX DERIVATIVES.](#)

2.1. Changes to the Referential Data on the SGX EQUITIES

S&P Capital IQ Real-Time Solutions **introduces** the referential tag below to accommodate the information broadcast on the SGX EQUITIES market data stream:

Table 2 Referential tags added on the SGX EQUITIES market data stream

Tag Name	Numeric ID	Type
OperatingMIC (SGX EQUITIES)	9533	String

Below is an example of the current implementation of the newly added (in **green**) referential tags:

```
instr # 226/1008242 = 474964594
  PriceCurrency      string{SGD}
  Symbol             string{SU9W_RY}
  Description         string{NBMEC15}
  SecurityType        string{WAR}
  FOSMarketId        XSES
  CFICode             string{RWXXCX}
  RoundLot            float64{1}
  InternalCreationDate Timestamp{2013-08-08 00:00:48:192}
  InternalModificationDate Timestamp{2014-05-23 00:00:49:025}
  InternalSourceId     uint16{221}
  InternalMagic        string{88-1-16-0-30465-0-0}
  LocalCodestr         string{SU9W_RY}
  ISIN                string{SG9UA9995637}
  PriceIncrement_dynamic_TableId uint32{14484592}
  OperatingMIC        string{XSES}
```

2.2. Changes to the Referential Data on the SGX DERIVATIVES

S&P Capital IQ Real-Time Solutions **introduces** the referential tag below to accommodate the information broadcast on the SGX DERIVATIVES market data stream:

Table 3 Referential tags added on the SGX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
OperatingMIC (SGX DERIVATIVES)	9533	String
SegmentMIC (SGX DERIVATIVES)	9534	String

Below is an example of the current implementation of the newly added (in **green**) referential tags:

```
instr # 227/1039508 = 477093012
  PriceCurrency      string{USD}
  Symbol            string{INK14_C7700}
  Description        string{SGX CNX NIFTY INDEX}
  SecurityType      string{OPT}
  StrikePrice       float64{77}
  FOSMarketId       XSIM
  CFICode           string{OCEICX}
  RoundLot          float64{2}
  InternalCreationDate Timestamp{2014-03-07 10:45:05:085}
  InternalModificationDate Timestamp{2014-03-19 22:13:51:630}
  InternalSourceId   uint16{159}
  InternalMagic      string{83-158-65-0-207-12989-7700}
  LocalCodeStr       string{INK14_C7700}
  PriceIncrement_static float64{0.1}
  MaturityYear       uint16{2014}
  MaturityMonth      uint8{5}
  MaturityDay        uint8{29}
  OperatingMIC       string{XSES}
  SegmentMIC         string{XSIM}
```

2.3. Changes to the Quotation Data on the SGX EQUITIES

S&P Capital IQ Real-Time Solutions **introduces** the quotation tag below to accommodate the information broadcast on the SGX EQUITIES market data stream:

Table 4 Quotation tags added on the SGX EQUITIES market data stream

Tag Name	Numeric ID	Type
InternalDailyClosingPriceType (SGX EQUITIES)	9155	Char

Below is an example of the current implementation of the newly added (in **green**) quotation tags:

```
InstrumentStatusL1
-- 226/1008242
  BID: 0.067      1500000
  ASK: 0.068      1500000
  LastPrice              float64{0.075}
  LastTradeQty           float64{10000}
  DailyTotalVolumeTraded float64{0}
  DailyTotalAssetTraded  float64{0}
  LastTradePrice         float64{0.075}
  LastTradeTimestamp     Timestamp{2014-07-14 07:00:33:675}
  InternalDailyOpenTimestamp Timestamp{2014-07-15 01:00:00:037}
  InternalDailyCloseTimestamp Timestamp{2014-07-15 09:06:00:009}
  InternalDailyHighTimestamp Timestamp{2014-07-14 07:00:33:675}
  InternalDailyLowTimestamp Timestamp{2014-07-14 07:00:33:675}
  InternalPriceActivityTimestamp Timestamp{2014-07-15 08:16:40:653}
  TradingStatus          18=NotAvailableForTrading
  PreviousDailyTotalVolumeTraded float64{10000}
  PreviousDailyTotalAssetTraded float64{750}
  PreviousDailyClosingPrice float64{0.075}
  PreviousBusinessDay     Timestamp{2014-07-14}
  CurrentBusinessDay      Timestamp{2014-07-15}
  LastAuctionVolume       float64{0}
  InternalDailyClosingPriceType char{a}
  LastAuctionImbalanceSide char{0}
  LastAuctionImbalanceVolume float64{0}
  InternalLastAuctionTimestamp Timestamp{2014-07-14 09:00:11:266}
  PriceActivityMarketTimestamp Timestamp{2014-07-15 08:16:40:653}
  MARKET_OMNET_OMX_TradingStateName string{CLOSE_}
```

2.4. Changes to the Quotation Data on the SGX DERIVATIVES

S&P Capital IQ Real-Time Solutions **introduces** the quotation tag below to accommodate the information broadcast on the SGX DERIVATIVES market data stream:

Table 5 Quotation tags added on the SGX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
OpenInterest (SGX DERIVATIVES)	9150	Float64
SettlementPriceDate (SGX DERIVATIVES)	9380	Timestamp

Below is an example of the current implementation of the newly added (in **green**) quotation tags:

```
InstrumentStatusL1
-- 227/1039508
  BID: 1.1      0      *NO ORDER*
  ASK: 6.3      0      *NO ORDER*
  InternalDailyOpenTimestamp    Timestamp{2014-07-23 01:00:00:055}
  InternalDailyCloseTimestamp   Timestamp{2014-07-22 18:35:00:047}
  InternalPriceActivityTimestamp Timestamp{2014-07-23 09:59:02:363}
  SettlPriceType                uint8{2}
  TradingStatus                 17=ReadyToTrade
  TradingSessionId              int8{2}
  SessionTotalOffBookAssetTraded float64{0}
  SessionTotalOffBookVolumeTraded float64{0}
  SessionTotalVolumeTraded      float64{0}
  SessionTotalAssetTraded       float64{0}
  DailySettlementPrice          float64{2.5}
  PreviousBusinessDay           Timestamp{2014-07-22}
  CurrentBusinessDay            Timestamp{2014-07-23}
  PreviousDailySettlementPrice   float64{1.5}
  OpenInterest                  float64{7}
  PriceActivityMarketTimestamp   Timestamp{2014-05-23 09:59:02:364}
  InternalDailyBusinessDayTimestamp Timestamp{2014-07-23 01:00:00:055}
  SettlementPriceDate          Timestamp{2014-07-22 08:00:00:000}
  MARKET_OMNET_OMX_TradingStateName string{OPEN_M}
```

3. QuantFEED® Technical Implementation

The following sections describe the technical implementation of the new or updated tags:

- [3.1. OperatingMIC \(SGX EQUITIES\)](#)
- [3.2. OperatingMIC \(SGX DERIVATIVES\)](#)
- [3.3. SegmentMIC \(SGX DERIVATIVES\)](#)
- [3.4. InternalDailyClosingPriceType \(SGX EQUITIES\)](#)
- [3.5. OpenInterest \(SGX DERIVATIVES\)](#)
- [3.6. SettlementPriceDate \(SGX DERIVATIVES\).](#)

3.1. OperatingMIC (SGX EQUITIES)

The values of the referential tag **OperatingMIC** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the parent MIC.

QuantFEED® implementation of the values currently available for the tag `operatingMIC` is described in the table below:

Table 6 **OperatingMIC – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	operatingMIC	QuantFEED® tag name.
Numeric ID	9533	QuantFEED® unique ID disseminated on 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	XSES	Parent MIC for all SGX DERIVATIVES branches.

3.2. OperatingMIC (SGX DERIVATIVES)

The values of the referential tag **OperatingMIC** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the parent MIC.

QuantFEED® implementation of the values currently available for the tag `operatingMIC` is described in the table below:

Table 7 **OperatingMIC – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	operatingMIC	QuantFEED® tag name.
Numeric ID	9533	QuantFEED® unique ID disseminated on 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	XSES	Parent MIC for all SGX DERIVATIVES branches.

3.3. SegmentMIC (SGX DERIVATIVES)

The values of the referential tag **SegmentMIC** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the child MIC.

QuantFEED® implementation of the values currently available for the tag SegmentMIC is described in the table below:

Table 8 SegmentMIC – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SegmentMIC	QuantFEED® tag name.
Numeric ID	9534	QuantFEED® unique ID disseminated on 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	XSIM	Child MIC for all SGX DERIVATIVES branches.

3.4. InternalDailyClosingPriceType (SGX EQUITIES)

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® 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.

QuantFEED® implementation of the values currently available for the tag InternalDailyClosingPriceType is described in the table below (currently disseminated values are in **green**):

Table 9 InternalDailyClosingPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	InternalDailyClosingPriceType	QuantFEED® tag name.
Numeric ID	9155	QuantFEED® 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.

Table 9 InternalDailyClosingPriceType – technical implementation in QuantFEED® (Continued)

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

3.5. OpenInterest (SGX DERIVATIVES)

The values of the quotation tag **Open Interest** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the amount of derivative contracts that have not been settled in the immediately previous time period for a specific underlying security:

- 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.

QuantFEED® implementation of the values currently available for the tag `openInterest` is described in the table below:

Table 10 OpenInterest – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>OpenInterest</code>	QuantFEED® tag name.
Numeric ID	9150	QuantFEED® unique ID disseminated on 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 amount of derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

3.6. SettlementPriceDate (SGX DERIVATIVES)

The values of the quotation tag **SettlementPriceDate** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the date of the settlement 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.

QuantFEED® implementation of the values currently available for the tag `SettlementPriceDate` is described in the table below:

Table 11 SettlementPriceDate – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SettlementPriceDate	QuantFEED® tag name.
Numeric ID	9380	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Timestamp	Timestamp data type.
Format / Possible Values	<i>[Exchange Specific value]</i>	An exchange specific value , indicating the date of the settlement price.

4. Finding the Latest Information

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

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