

QuantFEED® Developer's Notice

SGX EQUITIES & SGX DERIVATIVES – Feed Update

Reference n°: 20140901 – 21210 – 21211

Effective as of: 29 September 2014*

Action required from users: MANDATORY ACTION



* This is the proposed day for the update of the standard version of the feed handler. For dedicated feed handlers, this date may differ. For the actual day when the changes to your custom feed handler take effect, please contact your QuantFEED® project manager.

S&P Capital IQ Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Developer's Notice
Reference 20140901 – 21210 – 21211
September 16, 2014

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UPDATE OF THE SGX EQUITIES AND 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. QuantFEED® Technical Implementation](#)
- [3. Finding the Latest Information.](#)

1. Update Summary

Table 1 Current update summary

Notice Reference	20140901 – 21210 – 21211
Exchanges	SGX EQUITIES & SGX DERIVATIVES
Concerned MICs	XSES & XSIM
Internal Source ID	221 & 159
Effective Date	2014-09-29* – Mandatory date for SGX EQUITIES migration.
Impact	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags• Update of the MBL Book Depth
Action required	MANDATORY ACTION – see sections 2.1.1. SecurityType and 2.1.2. CFICode .

2. QuantFEED® Technical Implementation

Effective Monday, **September 29***, 2014, S&P Capital IQ Real-Time Solutions enhances the referential and quotation data, and changes the MBL Book Depth to accommodate the new information disseminated on the SGX EQUITIES & SGX DERIVATIVES market data streams, as described below:

* This is the proposed day for the update of the standard version of the feed handler. For dedicated feed handlers, this date may differ. For the actual day when the changes to your custom feed handler take effect, please contact your QuantFEED® project manager.

- [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](#)
- [2.5. Changes to the MBL Book Depth.](#)

2.1. Changes to the Referential Data on the SGX EQUITIES

S&P Capital IQ Real-Time Solutions [updates](#) the values of the referential tags below to accommodate the information disseminated on the SGX EQUITIES market data stream:

Table 2 Referential tags disseminating updated values on the SGX EQUITIES market data stream

Tag Name	Numeric ID	Type
SecurityType	167	String
CFICode	461	String
RoundLot	561	Float64

2.1.1. SecurityType

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

QuantFEED® implementation of the tag **SecurityType** is described in the table below (existing values are in black, newly added values are in green, and removed values are in ~~crossed-out red~~):

Table 3 SecurityType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SecurityType	QuantFEED® tag name.
Numeric ID	167	QuantFEED® 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 type of security.
Possible Values	BOND	Bonds
	CASH	Cash
	CS	Common Stock
	FORWARD	Forward
	GO	General Obligations Bond
	INDEX	Index
	MF	Mutual Fund (Exchangeable Traded Fund)
	PS	Preferred Stock
	WAR	Warrant

2.1.2. CFICode

The values of the referential tag **CFICode** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the standardized identification code of an instrument.

QuantFEED® implementation of the tag CFICode is described in the table below (existing values are in black, newly added values are in green, and removed values are in ~~crossed-out-red~~):

Table 4 CFICode – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	CFICode	QuantFEED® tag name.
Numeric ID	461	QuantFEED® 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 standardized identification code of an instrument.
Possible Values	DBXXXX	Debts - Bonds
	ERXXXX	Equities - Preferred Shares
	ESXXXX	Equities - Shares - Registered Depository Receipt
	ESXXXX	Equities - Shares
	EUXXXM	Equities - Units - Mixed-general
	EUXXXE	Equities - Units - Exchange Traded Funds
	EUXXXX	Equities - Units
	EXXXXX	Equities
	FXXXXX	Futures
	MMFXXX	Other instruments - Other Assets - Forwards
	RWMXCX	Rights - Warrants - Others - Call
	RWMXPX	Rights - Warrants - Others - Put
	RWXXCX	Rights - Warrants - Call
	RWXXPX	Rights - Warrants - Put
	RWXXXX	Rights - Warrants
	RXXXXX	Rights
	TIXMBX	Referential Instruments - Indices - Others - Bundled

The list below shows the possible combinations of FOSMarketIds, SecurityTypes and CFICodes on the SGX EQUITIES market data stream, before and after 2014-09-29:

BEFORE the 2014-09-29	AFTER the 2014-09-29
{ XSES BOND DBXXXX }	{ XSES CS ESXXXX }
{ XSES CASH EUXXXX }	{ XSES CS ESXXXX }
{ XSES CASH EXXXXX }	{ XSES CS RXXXXX }
{ XSES CASH FXXXXX }	{ XSES FORWARD MMFXXX }
{ XSES CASH RXXXXX }	{ XSES GO DBXXXX }
{ XSES CS ESXXXX }	{ XSES INDEX TIXMBX }
{ XSES MF EUXXE }	{ XSES MF EUXXMX }
{ XSES PS ERXXXX }	{ XSES MF EUXXE }
{ XSES WAR RWXXCX }	{ XSES MF EUXXXX }
{ XSES WAR RWXXPX }	{ XSES PS ERXXXX }
{ XSES WAR RWXXXX }	{ XSES WAR RWMXCX }
	{ XSES WAR RWMXPX }
	{ XSES WAR RWXXCX }
	{ XSES WAR RWXXPX }
	{ XSES WAR RWXXXX }
	{ XSES WAR RWXXXX }

2.1.3. RoundLot

The values of the referential tag **Round Lot** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the smallest order that can be placed.

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

Table 5 RoundLot – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	RoundLot	QuantFEED® tag name.
Numeric ID	561	QuantFEED® 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	<i>[Exchange specific value]</i>	An exchange specific value , detailing the smallest order that can be placed.
Possible Values	1	Smallest order is 1.
	10	Smallest order is 10.
	100	Smallest order is 100.
	1000	Smallest order is 1000.

Referential Data Sample – SGX EQUITIES

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

```
instr # 226/7407 = 473963759
PriceCurrency      string{SGD}
Symbol             string{UG2_RY}
Description         string{OCBC Bk.ES.1409}
SecurityType       string{FORWARD}
FOSMarketId        XSES
CFICode            string{MMFXXX}
RoundLot           float64{1000}
InternalCreationDate Timestamp{2014-08-27 08:40:22:551}
InternalModificationDate Timestamp{2014-09-01 00:01:30:546}
InternalSourceId    uint16{221}
InternalEntitlementId int32{1091}
InternalMagic       string{88-1-18-0-3226-0-0}
LocalCodeStr        string{UG2_RY}
ISIN                string{SG5CH9000009}
PriceIncrement_dynamic_TableId uint32{331664}
MBLLayersDesc        string{0,3}
OperatingMIC         string{XSES}
```

2.2. Changes to the Referential Data on the SGX DERIVATIVES

S&P Capital IQ Real-Time Solutions **updates** the values of the referential tags below to accommodate the information disseminated on the SGX DERIVATIVES market data stream:

Table 6 Referential tags disseminating updated values on the SGX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
CFICode	461	String

2.2.1. CFICode

The values of the referential tag **CFICode** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the standardized identification code of an instrument.

QuantFEED® implementation of the tag CFICode is described in the table below (existing values are in black, newly added values are in green, and removed values are in ~~crossed-out-red~~):

Table 7 CFICode – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	CFICode	QuantFEED® tag name.
Numeric ID	461	QuantFEED® 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 standardized identification code of an instrument.

Table 7 CFICode – technical implementation in QuantFEED® (Continued)

Component	Value	Description
Possible Values	ESXXXX	Equities - Shares
	FCEPSX	Futures - Commodities Futures - Extraction Resources - Physical - Standardized
Possible Values	FCEXSX	Futures - Commodities Futures - Extraction Resources - Standardized
	FCXPSX	Futures - Commodities Futures - Physical - Standardized
	FFXSX	Futures - Financial Futures - Standardized
	FXXCXX	Futures - Cash
	FXXPSX	Futures - Physical - Standardized
	FXXXXX	Futures
	MMXXXX	Other Instruments - Other Assets
	OCAFXS	Options - Call Options - American - Futures - Standardized
	OCAXXX	Options - Call Options - American
	OCEFXS	Options - Call Options - European - Futures - Standardized
	OCEICX	Options - Call Options - European - Indices - Cash
	OCEXCX	Options - Call Options - European - Cash
	OCEXXX	Options - Call Options - European
	OPAFXS	Options - Put Options - American - Futures - Standardized
	OPAXXX	Options - Put Options - American
	OPEFXS	Options - Put Options - European - Futures - Standardized
	OPEICX	Options - Put Options - European - Indices - Cash
	OPEXCX	Options - Put Options - European - Cash
	OPEXXX	Options - Put Options - European
	TXXXXX	Referential Instruments - Indices

The list below shows the possible combinations of FOSMarketIds, SecurityTypes and CFICodes on the SGX DERIVATIVES market data stream, before and after 2014-09-29:

BEFORE the 2014-09-29	AFTER the 2014-09-29
{ XSIM CS ESXXXX }	{ XSIM CS TXXXXX }
{ XSIM FUT FXXCXX }	{ XSIM FUT FCEPSX }
{ XSIM FUT FXXPSX }	{ XSIM FUT FCESX }
{ XSIM FUT FXXXXX }	{ XSIM FUT FCXPSX }
{ XSIM MLEG MMXXXX }	{ XSIM FUT FFXSX }
{ XSIM OPT OCAXXX }	{ XSIM FUT FXXCXX }
{ XSIM OPT OCEICX }	{ XSIM FUT FXXXXX }
{ XSIM OPT OCEXCX }	{ XSIM MLEG MMXXXX }
{ XSIM OPT OCEXXX }	{ XSIM OPT OCAFXS }
{ XSIM OPT OPAXXX }	{ XSIM OPT OCAXXX }
{ XSIM OPT OPEICX }	{ XSIM OPT OCEFXS }
{ XSIM OPT OPEXCX }	{ XSIM OPT OCEICX }
{ XSIM OPT OPEXXX }	{ XSIM OPT OCEXCX }
	{ XSIM OPT OCEXXX }
	{ XSIM OPT OPAFXS }
	{ XSIM OPT OPAXXX }
	{ XSIM OPT OPEFXS }
	{ XSIM OPT OPEICX }
	{ XSIM OPT OPEXCX }
	{ XSIM OPT OPEXXX }

Referential Data Sample – SGX DERIVATIVES

Below is an example showing the current implementation of the newly added (in green) and updated (in blue) referential tags:

```
instr # 227/2624 = 476056128
  PriceCurrency      string{USD}
  Symbol             string{TFU14}
  SecurityType       string{FUT}
  FOSMarketId        XSIM
  CFICode            string{FCXPSX}
  RoundLot           float64{1}
  InternalCreationDate Timestamp{2014-08-27 10:32:54:573}
  InternalModificationDate Timestamp{2014-08-31 22:00:49:166}
  InternalHideFromLookup bool{True}
  InternalSourceId    uint16{159}
  InternalEntitlementId int32{1092}
  InternalMagic        string{83-79-55-0-1500-13096-0}
  LocalCodeStr         string{TFU14}
  PriceIncrement_static float64{0.1}
  MaturityYear         uint16{2014}
  MaturityMonth        uint8{8}
  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 tags below to accommodate on the SGX EQUITIES market data stream the addition of the **Circuit Breaker*** feature by the Singapore Exchange:

Table 8 Quotation tags added on the SGX EQUITIES & SGX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
LowLimitPrice	1148	Float64
HighLimitPrice	1149	Float64
TradingReferencePrice	9370	Float64

2.3.1. LowLimitPrice

The values of the quotation tag **LowLimitPrice** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the low limit of a 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 tag **LowLimitPrice** is described in the following table:

Table 9 LowLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	LowLimitPrice	QuantFEED® tag name.
Numeric ID	1148	QuantFEED® 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 low limit of a price.

2.3.2. HighLimitPrice

The values of the quotation tag **HighLimitPrice** conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the high limit of a 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.

* The Singapore Exchange understands by **Circuit Breaker (CB)** “a set price band which varies with movements in the traded price of a stock or other securities throughout the day. The price band comprises an upper and lower price limit based on a deviation of 10% from a reference price.”

QuantFEED® implementation of the tag `HighLimitPrice` is described in the following table:

Table 10 HighLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	HighLimitPrice	QuantFEED® tag name.
Numeric ID	1149	QuantFEED® 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 high limit of a price.

2.3.3. TradingReferencePrice

The values of the quotation tag `TradingReferencePrice` conveyed on the SGX EQUITIES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the reference 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 tag `TradingReferencePrice` is described in the following table:

Table 11 TradingReferencePrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	TradingReferencePrice	QuantFEED® tag name.
Numeric ID	9370	QuantFEED® 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 reference price.

Quotation Data Sample – SGX EQUITIES

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

```
InstrumentStatusL1
-- 226/1012050
    BID: 9.82      0      *NO ORDER*
    ASK: 9.83      0      *NO ORDER*
    LastPrice      float64{9.83}
    LastTradeQty   float64{1000}
    DailyHighPrice float64{9.83}
    DailyLowPrice  float64{9.83}
    DailyTotalVolumeTraded float64{1000}
    DailyTotalAssetTraded float64{9830}
    LastTradePrice float64{9.83}
    LastTradeTimestamp Timestamp{2014-09-01 07:12:58:790}
    InternalDailyOpenTimestamp Timestamp{2014-09-01 01:00:00:021}
    InternalDailyCloseTimestamp Timestamp{2014-09-01 09:06:00:004}
    InternalDailyHighTimestamp Timestamp{2014-09-01 07:12:58:791}
    InternalDailyLowTimestamp Timestamp{2014-09-01 07:12:58:791}
    InternalPriceActivityTimestamp Timestamp{2014-09-01 09:06:00:004}
    LowLimitPrice  float64{8.78}
    HighLimitPrice float64{9.91}
    TradingReferencePrice float64{9.83}
    TradingStatus  18=NotAvailableForTrading
    DailyOpeningPrice float64{9.83}
    DailyClosingPrice float64{9.83}
    CurrentBusinessDay Timestamp{2014-09-01}
    LastAuctionVolume float64{0}
    LastAuctionImbalanceSide char{0}
    LastAuctionImbalanceVolume float64{0}
    InternalDailyClosingPriceType char{d}
    InternalLastAuctionTimestamp Timestamp{2014-08-29 09:00:01:093}
    PriceActivityMarketTimestamp Timestamp{2014-09-01 07:12:58:790}
    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 tags below to accommodate the information disseminated on the SGX DERIVATIVES market data stream:

Table 12 Quotation tags added on the SGX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
OpenInterestDate	9382	Timestamp
SettlementPriceType	9383	Char

2.4.1. OpenInterestDate

The values of the quotation tag **OpenInterestDate** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the date of the 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 tag `openInterestDate` is described below:

Table 13 **OpenInterestDate** – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>OpenInterestDate</code>	QuantFEED® tag name.
Numeric ID	9382	QuantFEED® unique ID disseminated on the 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 derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

2.4.2. SettlementPriceType

The values of the quotation tag **SettlementPriceType** conveyed on the SGX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the type of 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 tag `SettlementPriceType` is described in the following table (currently disseminated values are in **green**):

Table 14 SettlementPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>SettlementPriceType</code>	QuantFEED® tag name.
Numeric ID	9383	QuantFEED® 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	Timestamp data type.
Format	<i>[Exchange Specific value]</i>	An exchange specific value , indicating the type of settlement price.
Possible Values	a	Official – Explicit Official Daily Settlement Price, as distributed by the exchange.
	b	Preliminary – Settlement Price subject to change until the Official Daily Settlement Price is published.
	z	Manual – Settlement Price disseminated manually (in case of a correction).
	0	Undefined

Quotation Data Sample – SGX DERIVATIVES

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

```
InstrumentStatusL1
-- 227/1050415
  BID: 0 0      *NO ORDER*
  ASK: 0 0      *NO ORDER*
  InternalDailyOpenTimestamp    Timestamp{2014-09-01 23:55:00:050}
  InternalDailyCloseTimestamp   Timestamp{2014-09-01 14:25:00:040}
  SettlPriceType                uint8{2}
  TradingStatus                 17=ReadyToTrade
  TradingSessionId              int8{1}
  SessionTotalOffBookAssetTraded float64{0}
  SessionTotalOffBookVolumeTraded float64{0}
  SessionTotalVolumeTraded      float64{0}
  SessionTotalAssetTraded       float64{0}
  PreviousBusinessDay            Timestamp{2014-09-01}
  CurrentBusinessDay             Timestamp{2014-09-02}
  PreviousDailySettlementPrice   float64{190}
  SettlementPriceDate            Timestamp{2014-09-01}
  OpenInterestDate               Timestamp{2014-09-02}
  SettlementPriceType            char{a}
  MARKET_OMNET_OMX_TradingStateName string{OPEN_M}
```

2.5. Changes to the MBL Book Depth

Effective 2014-09-29, the **MBL Book** on the SGX EQUITIES & SGX DERIVATIVES market data streams has a **10-level depth**.

3. Finding the Latest Information

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