

S&P Capital IQ Real-Time Solutions

QuantFEED® Developer's Notice

ASX DERIVATIVES – Feed Update

Reference n°: 18942 – 20140514

Effective as of: **26 May 2014**

Action required from users: **MANDATORY ACTION**



S&P Capital IQ Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Developer's Notice
Reference 18942 – 20140514
May 14, 2014

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UPDATE OF THE ASX DERIVATIVES MARKET DATA STREAM

To reflect the changes caused by the introduction of volatility controls on index futures contracts on the ASX DERIVATIVES, 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	18942 – 20140514
Exchanges	ASX DERIVATIVES
Concerned MICs	XSFE
Internal Source ID	246
Effective Date	2014-05-26
Impact	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags• Update of the Quotation Context Tags
Action required	MANDATORY ACTION – see section 3.6. TradingStatus .

2. Functional Description

Effective Monday, **May 26, 2014**, during the night session for the trading date Tuesday, May 27, ASX DERIVATIVES introduces several Volatility Controls – such as *Anomalous Order Threshold (AOT)* and the new Session State '*Regulatory Halt*' – on the following Equity Index Futures contracts:

- ASX SPI 200™ index futures (AP)
- S&P/ASX 200 Resources index futures (AR)
- S&P/ASX 200 Financials-x-A-REIT index futures (AF).

The **Anomalous Order Threshold (AOT)** prevents aggressive orders from entering the market outside an allowed range, based on a Dynamic Reference Price (as described in section 3.4. [TradingReferencePrice](#)). The AOT range will initially be set at +/- 0.5% from the AOT reference price (as described in sections 3.2. [LowLimitPrice](#) and 3.3. [HighLimitPrice](#)). The AOT reference price is a moving average and is recalculated at regular intervals.

The **Regulatory Halt Session State** re-sets the AOT reference price in the event of erroneous trading. If a Regulatory Halt occurs, the Trading Status is set to 5=Price Indication (as described in section 3.6. [TradingStatus](#)) and any spread orders and custom orders related to the halted product are purged.

Subsequently, S&P Capital IQ Real-Time Solutions enhances the content of the referential, quotation and quotation context data to accommodate these changes on the ASX DERIVATIVES market data stream, as detailed below:

- [2.1. Changes to the Referential Data](#)
- [2.2. Changes to the Quotation Data](#)
- [2.3. Changes to the Quotation Context Data.](#)

2.1. Changes to the Referential Data

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

Table 2 Referential tags added on the ASX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
Description	107	String

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

```
instr # 21/1003070 = 45043262
  PriceCurrency      string{AUD}
  Symbol             string{IR}
  Description       string{90 Day Bank Accepted Bill Futures}
  SecurityType       string{FUT}
  StdMaturity        string{201412}
  FOSMarketId        XSFE
  CFICode             string{FFNXXX}
  RoundLot           float64{1000000}
  MarketSegmentID    string{SFE}
  InternalCreationDate Timestamp{2014-05-07 06:42:30:383}
  InternalModificationDate Timestamp{2014-05-07 06:42:30:383}
  InternalSourceId    uint16{246}
  LocalCodeStr       string{242170}
  PriceIncrement_static float64{0.01}
  MaturityYear        uint16{2014}
  MaturityMonth       uint8{12}
  MBLLayersDesc       string{0,1}
  OperatingMIC         string{XASX}
  SegmentMIC          string{XSFE}
```

2.2. Changes to the Quotation Data

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

Table 3 Quotation tags added on the ASX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
LowLimitPrice	1148	Float64
HighLimitPrice	1149	Float64
TradingReferencePrice	9370	Float64
SettlementPriceDate	9380	Timestamp

Moreover, S&P Capital IQ Real-Time Solutions **updates** the values of the quotation tag below:

Table 4 Quotation tags disseminating updated values on the ASX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
TradingStatus	9100	String

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

```
VU 06:39:52:003.581 21/13823 TradingStatus=5
SI 06:39:52:003.581 21/13823 CLOSE *
TE 06:39:52:003.581 21/13823 * * * * *
VU 06:39:52:003.581 21/13823 TradingStatus=18

[...]

VU 06:39:59:130.114 21/13823 TradingStatus=17
VU 06:39:59:130.114 21/13823 TradingReferencePrice=5496 LowLimitPrice=5471
HighLimitPrice=5521
SI 06:39:59:130.114 21/13823 OPEN *
TE 06:39:59:130.114 21/13823 * * * * *
[...]

VU 06:40:10:068.794 21/4087 DailySettlementPrice=1.465 SettlementPriceDate=2014-05-28
```

2.3. Changes to the Quotation Context Data

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

Table 5 Quotation context tags added on the ASX DERIVATIVES market data stream

Tag Name	Numeric ID	Type
TradeCondition	277	String

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

```
VU 06:39:59:114.695 21/13823 TradingStatus=16
TE 06:39:59:114.695 21/13823 5496 9 5496 26@1 5296 1@1 L
TradeCondition=R-X,TradeID=14
```

3. QuantFEED® Technical Implementation

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

- [3.1. Description](#)
- [3.2. LowLimitPrice](#)
- [3.3. HighLimitPrice](#)
- [3.4. TradingReferencePrice](#)
- [3.5. SettlementPriceDate](#)
- [3.6. TradingStatus](#)
- [3.7. TradeCondition.](#)

3.1. Description

The values of the referential tag **Description** conveyed on the ASX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Referential* to characterize an instrument.

QuantFEED® implementation of the values currently available for the tag **Description** is detailed in the table below:

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

Component	Value	Description
Tag Name	Description	QuantFEED® tag name.
Numeric ID	107	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 / Possible Values	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , characterizing the instrument.

3.2. LowLimitPrice

The values of the quotation tag **LowLimitPrice** conveyed on the ASX DERIVATIVES 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 7 LowLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>LowLimitPrice</code>	QuantFEED® tag name.
Numeric ID	1148	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 , indicating the low limit of a price.

3.3. HighLimitPrice

The values of the quotation tag **HighLimitPrice** conveyed on the ASX DERIVATIVES 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.

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

Table 8 HighLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>HighLimitPrice</code>	QuantFEED® tag name.
Numeric ID	1149	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 , indicating the high limit of a price.

3.4. TradingReferencePrice

The values of the quotation tag **TradingReferencePrice** conveyed on the ASX DERIVATIVES 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 9 TradingReferencePrice – technical implementation in QuantFEED®

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

3.5. SettlementPriceDate

The values of the quotation tag **SettlementPriceDate** conveyed on the ASX 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 tag **SettlementPriceDate** is described in the following table:

Table 10 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.

3.6. TradingStatus

Each time a modification of the trading status occurs, the values of the quotation tag **Trading Status** conveyed on the ASX DERIVATIVES market data stream are disseminated via QuantFEED® 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.

QuantFEED® implementation of the tag `TradingStatus` is described in the following table (newly added values are in green):

Table 11 `TradingStatus` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>TradingStatus</code>	QuantFEED® tag name.
Numeric ID	9100	QuantFEED® unique ID disseminated on 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	5	Price Indication
	16	Trade Dissemination Time
	17	Ready to Trade
	18	Not Available for Trading
	21	Pre-Open

3.7. TradeCondition

The values of the quotation tag **Trade Condition** conveyed on the ASX DERIVATIVES market data stream are disseminated via QuantFEED® data stream in *Context* to identify the a particular condition applicable to the trade:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED® implementation of the tag `TradeCondition` is described in the table below:

Table 12 `TradeCondition` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>TradeCondition</code>	QuantFEED® tag name.
Numeric ID	277	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 , detailing the particular condition applicable to the trade.

Table 12 TradeCondition – technical implementation in QuantFEED® (Continued)

Component	Value	Description
Possible Values	<Empty>	Normal Trade, trade price matches both order prices. Default value, not sent.
	X	Crossed
	Z	Sweeping Trade, trade price matches resting order
	Z-X	Sweeping Trade, trade price matches resting order – Crossed
	R	Levelling Trade, trade price may be different than price of resting order(s)
	R-X	Levelling Trade, trade price may be different than price of resting order(s) – Crossed
	1	Spread-to-Underlying trade (price is based on the order of the underlying future relating to intra, inter or custom matching with an outright order)
	1-X	Spread-to-Underlying trade (price is based on the order of the underlying future relating to intra, inter or custom matching with an outright order) – Crossed
	AA-4	Intra-Spread-to-Intra-Spread trade (price is based on the near contract's prior day settlement)
	AA-4-X	Intra-Spread-to-Intra-Spread trade (price is based on the near contract's prior day settlement) – Crossed
	3	Inter-Spread-to-Inter-Spread trade (price is based on the secondary's contract's prior day settlement)
	3-X	Inter-Spread-to-Inter-Spread trade (price is based on the secondary's contract's prior day settlement) – Crossed
	AH	Custom-to-Custom trade
	AH-X	Custom-to-Custom trade – Crossed

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>.