

S&P Capital IQ's Real-Time Solutions

QuantFEED® Developer's Notice

SWX – Feed Update

Reference n°: 20131028

Effective as of: **04 November 2013**

Action required from users: **MANDATORY**



**S&P
CAPITAL IQ**

McGRAW HILL FINANCIAL

S&P Capital IQ's Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Developer's Notice
Reference 20131028
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UPDATE OF SWX MARKET DATA STREAM

To reflect the changes in the trading process on SWX market data stream, S&P Capital IQ's 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	20131028
Exchanges	SWX
Concerned MICs	XSWX, XVTX, LIQU, XQMH
Internal Source ID	29
Effective Date	2013-11-04
Impact	<ul style="list-style-type: none">• Referential Tags' update• Quotation Tags' update• Update of the L1 kinematics on Auction Phases:<ul style="list-style-type: none">- resetting tags LastAuctionPrice and LastAuctionVolume- suspending data dissemination via LastPrice and MARKET_SWX_LastAuctionQty
Action required	MANDATORY

2. Functional Description

Effective Monday, **November 04, 2013**, S&P Capital IQ's Real-Time Solutions adds a new referential tag – operatingMIC (NumericID: 9533, Type: String) –, and a new quotation tag – TradingReferencePrice (NumericID: 9370, Type: Float64) –, to accommodate the information disseminated on SWX market data stream.

Furthermore, S&P Capital IQ's Real-Time Solutions introduces a new L1 kinematics that resets the values of the tags LastAuctionPrice (**NumericID:** 9146, **Type:** Float64) and LastAuctionVolume (**NumericID:** 9147, **Type:** Float64) at the end of the auction phases on SWX market data stream.

Moreover, the tags LastPrice (**NumericID:** 9106, **Type:** Float64) and MARKET_SWX_LastAuctionQty (**NumericID:** 15451, **Type:** Float64) are no longer disseminated at the end of the same auction phases.

Please note that the new kinematics is QuantFEED® and exchange compliant.

3. QuantFEED® Technical Implementation

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

- [3.1. Operating MIC](#)
- [3.2. Trading Reference Price](#)
- [3.3. SWX L1 Kinematics Update.](#)

3.1. Operating MIC

The values of the referential tag **Operating MIC** conveyed on SWX market data stream are disseminated via QuantFEED®'s data stream in *Referential* to reflect SWX's adoption of the ISO 10383:2012 standard and indicate the parent-like MIC.

QuantFEED®'s implementation of the values currently available for the tags operatingMIC is described in the table below:

Table 2 **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's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , specifying the parent MICs.
Possible Values	LIQU	LIQUIDNET SYSTEMS
	XQMH	SCOACH SWITZERLAND
	XSWX	SIX SWISS EXCHANGE AG

3.2. Trading Reference Price

The values of the quotation tag **Trading Reference Price** are disseminated via QuantFEED®'s data stream in *Other Values* to indicate the superior price limit:

- 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®'s implementation of the tag `TradingReferencePrice` is described in the following table:

Table 3 **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's Real-Time Solutions's 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 superior price limit.

Caution	The tag <code>TradingReferencePrice</code> is updated after the market closes, but not during the trading phase.
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3.3. SWX L1 Kinematics Update

The following sections describe the kinematics of SWX market data stream before and after 2013-11-04:

- [3.3.1. SWX L1 Kinematics Before 2013-11-04](#)
- [3.3.2. SWX L1 Kinematics After 2013-11-04.](#)

3.3.1. SWX L1 Kinematics Before 2013-11-04

At the end of the auction phases, the exchange sends a message to reset the auction values disseminated by QuantFEED®'s tags LastPrice (NumericID: 9106, Type: Float64), LastAuctionPrice (NumericID: 9146, Type: Float64), LastAuctionVolume (NumericID: 9147, Type: Float64) and MARKET_SWX_LastAuctionQty (NumericID: 15451, Type: Float64).

In the L1 kinematics before November 04, 2013, S&P Capital IQ's Real-Time Solutions ignores these messages and keeps the tags' values during the entire trading session until a new auction phase occurs, as shown in the sample below:

Sample SWX L1 kinematics before 2013-11-04

```

EV 298/500052          2013-10-18 08:33:37:629 /ServerUTCTime: 2013-10-18 08:33:37:630
content: Bid LastPrice OtherValues Context
      BestBid      = AT_BEST 510      @2
      LastPrice     = 70
CONTEXT:
MARKET_SWX_LastAuctionQty:    float64{510}
VALUES:
      LastAuctionPrice    float64{70}
      LastAuctionVolume   float64{510}
EV 298/500052          2013-10-18 08:33:55:108 /ServerUTCTime: 2013-10-18 08:33:55:109
content: Bid OtherValues Context
      BestBid      = AT_BEST 1010     @3
CONTEXT:
MARKET_SWX_LastAuctionQty:    float64{1010}
VALUES:
      LastAuctionVolume   float64{1010}
EV 298/500052          2013-10-18 08:34:52:009 /ServerUTCTime: 2013-10-18 08:34:52:010
content: Bid Ask
      BestBid      = 62      500      @1
      BestAsk      = 70      14998    @1
EV 298/500052          2013-10-18 08:34:52:005 /ServerUTCTime: 2013-10-18 08:34:52:010
content: TradingStatus OtherValues
VALUES:
      MARKET_SWX_BookCondition    int32{3}
      TradingStatus                17=ReadyToTrade
EV 298/500052          2013-10-18 08:34:52:005 /ServerUTCTime: 2013-10-18 08:34:52:032
content: LastPrice LastTradeQty
      LastTradeQty = 10
      LastPrice    = 70
CONTEXT:
MARKET_SWX_TradingPhase:    1

```

3.3.2. SWX L1 Kinematics After 2013-11-04

After November 04, 2013, the values disseminated by the tags LastAuctionPrice and LastAuctionVolume are reset at the end of each auction phase, while those previously sent via LastPrice and MARKET_SWX_LastAuctionQty are no longer disseminated.

The new kinematics ensures that the tags' content is consistent with the data disseminated by the exchange.

Sample SWX L1 kinematics after 2013-11-04

```
EV 298/500052      2013-10-18 08:33:37:629 /ServerUTCTime: 2013-10-18 08:33:37:630
content: OtherValues
VALUES:
    LastAuctionPrice      float64{70}
    LastAuctionVolume     float64{510}
EV 298/500052      2013-10-18 08:33:55:108 /ServerUTCTime: 2013-10-18 08:33:55:108
content: Bid
    BestBid      = AT_BEST 1010    @3
EV 298/500052      2013-10-18 08:33:55:108 /ServerUTCTime: 2013-10-18 08:33:55:109
content: OtherValues
VALUES:
    LastAuctionVolume     float64{1010}
EV 298/500052      2013-10-18 08:34:52:009 /ServerUTCTime: 2013-10-18 08:34:52:009
content: Bid Ask
    BestBid      = 62      500    @1
    BestAsk      = 70      14998  @1
EV 298/500052      2013-10-18 08:34:52:009 /ServerUTCTime: 2013-10-18 08:34:52:009
content: OtherValues
VALUES:
    LastAuctionPrice      UNKNOWN{?}
    LastAuctionVolume     UNKNOWN{?}
EV 298/500052      2013-10-18 08:34:52:009 /ServerUTCTime: 2013-10-18 08:34:52:010
content: TradingStatus OtherValues
VALUES:
    MARKET_SWX_BookCondition  int32{3}
    TradingStatus            17=ReadyToTrade
EV 298/500052      2013-10-18 08:34:52:005 /ServerUTCTime: 2013-10-18 08:34:52:047
content: LastPrice LastTradeQty Context
    LastTradeQty = 10
    LastPrice    = 70
CONTEXT:
MARKET_SWX_TradingPhase:      1
```

4. Finding the Latest Information

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

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