QuantHouse® FeedOS™

FeedOS™ Developer's Notice

Update of the Referential and Quotation Tags on NYSE LIFFE XDP

Reference n°: 20120604

Effective as of: 04 June 2012

Action required from users: Optional

QUANTHOUSE

QuantHouse® FeedOS™
FeedOS™ Developer's Notice
Reference 20120604
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UPDATE OF THE REFERENTIAL AND QUOTATION TAGS ON NYSE LIFFE XDP

QuantHouse® has decided to enhance the content of QuantFEED®, by updating the Referential and Quotation Tags on NYSE LIFFE XDP market data stream.

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	20120604
Scope	Reference Data
Exchanges	NYSE LIFFE XDP
Effective Date	**2012-06-04**
Impact	Update of the Referential and Quotation Tags
Action required	Optional

2. Functional Description

Starting **June 04, 2012**, QuantHouse® introduces three additional tags to accommodate the information being broadcast on NYSE LIFFE XDP Data Feed. Thus, the following three new tags: `MARKET_LIFFE_XDP_InstrumentDenominator`, `MARKET_LIFFE_XDP_StrikePriceDecimalLocator` and `MARKET_LIFFE_XDP_StrikePriceDenominator` are now available in QuantFEED®'s Referential Data Stream to identify the **Instrument Denominator** and differentiate the characteristics of the **Strike Price**.

These tags refer to the calculation methods for decimal prices. The **Instrument Denominator** is the multiplication factor between the Stated Value and Real Price. For instance, given a Stated Value of `6425` and an Instrument Denominator of `100`, the Real Price is `64.25`.

The **Strike Price Denominator** and **Strike Price Decimal Locator** are used for calculating fractional prices as a combination of real values (or points) and ticks. The Points represent the integer of the strike, while the Ticks are divided by the strike denominator to get the fractional part. For instance, given the following values:

- Stated Value = `6425`
- Strike Denominator = `100`
- Decimal Locator = `2`
- Points = `int` (`6425 / 10`^{2}) = `64`
- Ticks = `6425 mod (10`^{2}`)` = `25`

the Strike Price is `64 + 25/100 = 64.25`*, based on the following formulae:

$$\text{StrikePrice} = P + \frac{T}{D} \qquad P = \text{int}\left(\frac{E}{10^L}\right) \qquad T = E\ \text{mod}(10^L)$$

where E = Stated Value, L = Decimal Locator, D = Strike Price Denominator, P = Points, T = Ticks.

Caution	Please note that the values of **Real Price** and **Strike Price** are the results of the calculations based on these formulae, and not the Stated Value. They are broadcast in *Quotation*.

Moreover, the quotation tag **Daily Settlement Price** receives updates for two additional categories that indicate the Official IntraDay and Official Daily prices.

3. QuantFEED® Technical Implementation

The new tags `MARKET_LIFFE_XDP_InstrumentDenominator`, `MARKET_LIFFE_XDP_StrikePriceDecimalLocator` and `MARKET_LIFFE_XDP_StrikePriceDenominator` are broadcast via QuantHouse®'s data stream in *Referential*, when new details about the instrument and price are available.

QuantFEED® implementation of the new tag related to the **Instrument Denominator** is described in the following table:

Table 2 NYSE LIFFE XDP Instrument Denominator technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_LIFFE_XDP_InstrumentDenominator`	QuantFEED® tag name.
Numeric ID	`11702`	QuantFEED® unique ID broadcast on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`UInt32`	Unsigned integer 32 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value*** concerning the instrument denominator. For more details, see section 2. Functional Description on page 1.

* If the Price Denominator is $10^{\text{Decimal Locator}}$, the result is the same as if the price had been divided by the Strike Denominator.

QuantFEED® implementation of the new tag related to the **Strike Price Decimal Locator** is described in the table below:

Table 3 NYSE LIFFE XDP Strike Price Decimal Locator technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_LIFFE_XDP_StrikePriceDecimalLocator`	QuantFEED® tag name.
Numeric ID	`11701`	QuantFEED® unique ID broadcast on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`UInt16`	Unsigned integer 16 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value*** concerning the strike price decimal locator. For more details, see section 2. Functional Description on page 1.

QuantFEED® implementation of the new tag related to the **Strike Price Denominator** is described in the following table:

Table 4 NYSE LIFFE XDP Strike Price Denominator technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_LIFFE_XDP_StrikePriceDenominator`	QuantFEED® tag name.
Numeric ID	`11700`	QuantFEED® unique ID broadcast on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`UInt32`	Unsigned integer 32 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value*** concerning the strike price denominator. For more details, see section 2. Functional Description on page 1.

The new values of `DailySettlementPrice` are broadcast via QuantHouse®'s data stream in *Other Values*, when new details about the settlement price are available:

- 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 quotation tag related to the **Daily Settlement Price** is described in the following table (newly introduced categories are in ***bold-italic***):

Table 5 NYSE LIFFE XDP Daily Settlement Price technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`DailySettlementPrice`	QuantFEED® tag name.
Numeric ID	`9133`	QuantFEED® unique ID broadcast on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`Float64`	Floating point 64 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	In addition to the existing price categories 4 – Official Market Close, 6 – Official Expiry and 10 – Official YDSP, `DailySettlementPrice` also receives updates for ***2 – Official Daily*** and ***8 – Official IntraDay***.

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.