QuantHouse® FeedOS™

FeedOS™ Developer's Notice

Update of the Quotation Tags on BME

Reference n°: 20120803

Effective as of: 06 August 2012

Action required from users: Optional

QuantHouse® FeedOS™
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Reference 20120803
August 03, 2012

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UPDATE OF THE QUOTATION TAGS ON BME

To reflect the changes caused by the dissemination of new values on the BME market data stream, QuantHouse® 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

Table 1 Current update summary

Notice Reference	20120803
Scope	Quotation Data
Exchanges	BME – Bolsas y Mercados Españoles
Effective Date	**2012-08-06**
Impact	• Update of the Quotation Tags
Action required	Optional

2. Functional Description

Starting **August 06, 2012**, QuantHouse® introduces two new quotation tags – `MARKET_BME_StaticVariationRange` and `MARKET_BME_DynamicVariationRange` – in QuantFEED®'s Level 1 Data Stream to identify the **Static and Dynamic Variation Range of the Shares**.

The **Static Range** defines the maximum permitted variation around the *Static Price* (in both directions) and it is expressed as a percentage. The *Static Price* is the price fixed *at the last auction* (the auction allocation price).

The Static Range remains in force during the entire session.

The **Dynamic Range** defines the maximum permitted variation around the *Dynamic Price* (in both directions) and it is expressed as a percentage. The *Dynamic Price* is the price fixed *in the last trade*, and may be the result either of an auction (in which case it will be the same as the static price) or of a trade made on the open market.

The Dynamic Range remains in force only while the market is open and during the closing auction.

By definition, the Dynamic Ranges are less than or equal to the Static Ranges.

The Static and Dynamic Ranges are established and published monthly by BME Trading and Supervisory Committee.

Moreover, three additional quotation context tags – `Buyer`, `Seller` and `TradeCondition` – will be disseminated through QuantFEED®'s Level 1 Data Stream to signal the presence of cross trades.

3. QuantFEED® Technical Implementation

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

- 3.1. Static and Dynamic Variation Range
- 3.2. Buyer, Seller and Trade Condition.

3.1. Static and Dynamic Variation Range

The values of **Static and Dynamic Variation Range** are conveyed through the new quotation tags `MARKET_BME_StaticVariationRange` and `MARKET_BME_DynamicVariationRange`, which are disseminated via QuantFEED®'s 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®'s implementation of the values currently available for the tag `MARKET_BME_StaticVariationRange` is described in the following table:

Table 2 MARKET_BME_StaticVariationRange – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_BME_StaticVariationRange`	QuantFEED® tag name.
Numeric ID	`14921`	QuantFEED® unique ID disseminated on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`Float64`	Float64 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific percentile value***, detailing the maximum permitted value around the static price. For more details, see section 2. Functional Description.

QuantFEED®'s implementation of the values currently available for the tag `MARKET_BME_DynamicVariationRange` is described in the following table:

Table 3 MARKET_BME_DynamicVariationRange – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_BME_DynamicVariationRange`	QuantFEED® tag name.
Numeric ID	`14920`	QuantFEED® unique ID disseminated on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`Float64`	Float64 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific percentile value***, detailing the maximum permitted value around the dynamic price. For more details, see section 2. Functional Description.

Below is an example of the current implementation of the quotation tags `MARKET_BME_DynamicVariationRange` and `MARKET_BME_DynamicVariationRange` in the BME market data stream:

```
InstrumentStatusL1
-- 238/1128
        BID: 4.51       132     @1
        ASK: 4.54       1500    @1
        LastPrice                       float64{4.51}
        LastTradeQty                    float64{70}
        DailyHighPrice                  float64{4.55}
        DailyLowPrice                   float64{4.39}
        DailyTotalVolumeTraded          float64{286843}
        DailyTotalAssetTraded           float64{1282343.17}
        LastTradePrice                  float64{4.51}
        LastTradeTimestamp              Timestamp{2012-08-02 15:35:00}
        InternalDailyOpenTimestamp      Timestamp{2012-08-02 08:07:25:349}
        InternalDailyCloseTimestamp     Timestamp{2012-08-02 08:25:17:061}
        InternalDailyHighTimestamp      Timestamp{2012-08-02 08:07:29:968}
        InternalDailyLowTimestamp       Timestamp{2012-08-02 08:20:20:541}
        InternalPriceActivityTimestamp  Timestamp{2012-08-02 08:25:17:061}
        TradingStatus                   18=NotAvailableForTrading
        SessionVWAPPrice                float64{4.4705}
        DailyOpeningPrice               float64{4.46}
        DailyClosingPrice               float64{4.51}
        PreviousDailyTotalVolumeTraded  float64{286843}
        PreviousDailyTotalAssetTraded   float64{1282343.17}
        PreviousDailyClosingPrice       float64{4.51}
        PreviousBusinessDay             Timestamp{2012-08-01}
        CurrentBusinessDay              Timestamp{2012-08-02}
        LastAuctionPrice                float64{4.51}
        LastAuctionVolume               float64{5651}
        InternalLastAuctionTimestamp    Timestamp{2012-08-02 08:25:13:193}
        MARKET_BME_DynamicVariationRange float64{3}
        MARKET_BME_StaticVariationRange  float64{7}
```

See also the example in section 3.2. Buyer, Seller and Trade Condition.

3.2. Buyer, Seller and Trade Condition

The signal cross trades, the values of **Buyer, Seller and Trade Condition** are conveyed through the new quotation tags `Buyer`, `Seller` and `TradeCondition`, which are disseminated via QuantFEED®'s data stream in *Context*:

- 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 values currently available for the tag `Buyer` is described in the following table:

Table 4 Buyer – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`Buyer`	QuantFEED® tag name.
Numeric ID	`288`	QuantFEED® unique ID disseminated on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`String`	String data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value***, detailing the value on the buyer side. For more details, see section 2. Functional Description.

QuantFEED®'s implementation of the values currently available for the tag `Seller` is described in the following table:

Table 5 Seller – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`Seller`	QuantFEED® tag name.
Numeric ID	`289`	QuantFEED® unique ID disseminated on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`String`	String data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value***, detailing the value on the seller side. For more details, see section 2. Functional Description.

QuantFEED®'s implementation of the values currently available for the tag `Seller` is described in the following table:

Table 6 TradeCondition – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`TradeCondition`	QuantFEED® tag name.
Numeric ID	`277`	QuantFEED® unique ID disseminated on QuantHouse®'s data stream. This is the numeric equivalent of the tag name.
Type	`String`	String data type.
Format	*`[Exchange Specific Value]`*	An ***exchange specific value***, signaling the presence of a Cross Trade. For more details, see section 2. Functional Description.
Possible Values	`‘X’`	Signals the presence of the cross trade.

Below is an example of the current implementation of the quotation context tags `Buyer`, `Seller` and `TradeCondition` in the BME market data stream (The lines in blue highlight the tags `MARKET_BME_StaticVariationRange` and `MARKET_BME_DynamicVariationRange` — here identified by their numeric IDs — and their values for the instrument traded in the example. For more details about Static and Dynamic Variation Range, see section 3.1. Static and Dynamic Variation Range.):

```
SI 13:55:01:457 499130420       OPEN    *
TE 13:55:01:457 499130420       *       *       *       *       O
VU 13:55:01:457 499130420       TradingStatus=17
VU 13:55:01:458 null     499130420       14920=8
VU 13:55:01:458 null     499130420       14921=10
TE 13:55:01:459 499130420       19.915  *       *       *       H
TE 13:55:01:459 499130420       19.915  *       *       *       L
VU 13:55:01:459 499130420       SessionVWAPPrice=19.915
TE 13:55:01:459 499130420       19.915  20127   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
VU 13:55:01:459 499130420       DailyOpeningPrice=19.915
TE 13:55:01:459 499130420       19.915  19709   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:459 499130420       19.915  29651   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:459 499130420       19.915  6408    *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  4370    *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  4723    *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  39240   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  14535   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  17061   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:460 499130420       19.915  56115   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:461 499130420       19.915  6310    *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:461 499130420       19.915  26043   *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
TE 13:55:01:461 499130420       19.915  8537    *       *
            TradeCondition=X=crossed,Buyer=9805,Seller=9805
```

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.