

# **FeedOS™ Developer's Notice**

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## **Update of the Quotation Tags on BME**

Reference n°: 20120803

Effective as of: **06 August 2012**

Action required from users: **Optional**



QuantHouse® FeedOS™  
FeedOS™ Developer's Notice  
Reference 20120803  
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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](#)
- [2. Functional Description](#)
- [3. QuantFEED® Technical Implementation](#)
- [4. Finding the Latest Information.](#)

## 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	<code>MARKET_BME_StaticVariationRange</code>	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	<i>[Exchange specific value]</i>	An <b>exchange specific percentile value</b> , detailing the maximum permitted value around the static price. For more details, see section 2. <a href="#">Functional Description</a> .

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	<i>[Exchange Specific value]</i>	An <b>exchange specific percentile value</b> , detailing the maximum permitted value around the dynamic price. For more details, see section 2. <a href="#">Functional Description</a> .

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	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , detailing the value on the buyer side. For more details, see section 2. <a href="#">Functional Description</a> .

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	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , detailing the value on the seller side. For more details, see section 2. <a href="#">Functional Description</a> .

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	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , signaling the presence of a Cross Trade. For more details, see section 2. <a href="#">Functional Description</a> .
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](mailto:support@quanthouse.com)
- Web: <http://support.quanthouse.com>.