

S&P Capital IQ Real-Time Solutions

QuantFEED® Developer's Notice

ORION EQUITIES – Feed Update

Reference n°: 19525 – 20901 – 20140521

Effective as of: **09 June 2014**

Action required from users: **Attention Required**



**S&P
CAPITAL IQ**

McGRAW HILL FINANCIAL

S&P Capital IQ Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Developer's Notice
Reference 19525 – 20901 – 20140521
May 22, 2014

Corporate Headquarters

S&P Capital IQ Real-Time Solutions (QuantHouse®)
52 Rue de la Victoire
75009 Paris
France
Tel: +33 (0) 1 73 02 32 11
Fax: +33 (0) 1 73 02 32 12

US Offices

55 Water Street, 44th floor
New York, NY 10041
United States of America
Tel: +1-(212)-438-4346

130 East Randolph
One Prudential Plaza, Suite 2900
Chicago, IL 60601
United States of America
Tel: +1-(312)-233-7129

UK Office

20 Canada Square
Canary Wharf
London E14 5LH
United Kingdom
Tel: +44 (0) 203 107 1676

Singapore Office

12 Marina Boulevard
#23-01 Marina Bay
Financial Centre Tower 3
Singapore 018982
Tel: +65 6530 6546

www.quanthouse.com

Disclaimer for Technical Documents

QuantHouse® S.A.S. endeavors to include accurate and current information in its materials. However, QuantHouse® does not warrant the accuracy or completeness of the information contained herein. QuantHouse® may change such information at any time, but makes no commitment to update it.

References by QuantHouse® to products offered by third-parties do not constitute an endorsement by QuantHouse® of such products and should not be construed as an association with their owners.

YOUR USE OF THE INFORMATION HEREIN IS AT YOUR OWN RISK. SUCH INFORMATION IS PROVIDED ON AN "AS IS" BASIS. QUANTHOUSE® S.A.S. MAKES NO REPRESENTATION, UNDERTAKES NO OBLIGATION, AND PROVIDES NO WARRANTY OF ANY KIND WITH RESPECT TO THE INFORMATION CONTAINED HEREIN, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. IF YOU CHOOSE TO USE SUCH INFORMATION, YOU ARE ACKNOWLEDGING THAT YOU HAVE READ THIS DISCLAIMER, UNDERSTAND IT, AGREE TO ABIDE BY, AND BE BOUND BY, ITS PROVISIONS.

Use of the Information

The information constitutes proprietary material and is either owned by or licensed to QuantHouse®. Further, it is protected by intellectual property rights. No information may be used, reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise) or for any purpose, except as licensed expressly by QuantHouse® S.A.S.

Trademarks

QUANTHOUSE®, the QuantHouse® logo and product names are trademarks of QuantHouse® S.A.S. and QuantHouse® S.A.S. reserves all intellectual property rights with respect to the trademarks. All other trademarks are the trademarks of their respective owners.

Copyright

© Copyright 2004-2014 QuantHouse® S.A.S. All rights reserved.



UPDATE OF THE ORION EQUITIES MARKET DATA STREAM

To reflect the changes caused by the dissemination of new values on the ORION EQUITIES market data stream, 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	19525 – 20901 – 20140521
Exchanges	ORION EQUITIES
Concerned MICs	XGEM, XHKG
Internal Source ID	224
Effective Date	2014-06-09
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	Attention Required

2. Functional Description

Effective Monday, **June 09, 2014**, S&P Capital IQ Real-Time Solutions enhances the content of the referential, quotation and quotation context data to accommodate the new information disseminated on the ORION EQUITIES market data stream, as described 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 **updates** the values disseminated by the referential tags below to accommodate the information broadcast on the ORION EQUITIES market data stream:

Table 2 Referential tags added on the ORION EQUITIES market data stream

Tag Name	Numeric ID	Type
SegmentMIC (see page 4)	9534	String

Below is an example of the current implementation of the updated (in **blue**) referential tags:

```
instr # 108/1196 = 226493612
  PriceCurrency      string{HKD}
  Symbol             string{8181}
  Description         string{KONGSHUMUNION}
  SecurityType       string{CS}
  FOSMarketId        XGEM
  CFICode            string{ESXXXX}
  RoundLot           float64{8000}
  SecurityGroup      string{GEM}
  InternalCreationDate Timestamp{2013-10-10 18:03:58:816}
  InternalModificationDate Timestamp{2014-05-22 12:52:31:599}
  InternalSourceId   uint16{99}
  LocalCodeStr       string{8181}
  ISIN               string{KYG5310M1087}
  PriceIncrement_dynamic_TableId uint32{14680164}
  MBLLayersDesc      string{0}
  OperatingMIC        string{XHKG}
  SegmentMIC         string{XGEM}
  ShortSellEligibleFlag bool{False}
  MARKET_HK_ExchangeRate float64{1}
```

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 ORION EQUITIES market data stream:

Table 3 Quotation tags added on the ORION EQUITIES market data stream

Tag Name	Numeric ID	Type
InternalDailyClosingPriceType	9155	Char

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

```
InstrumentStatusL1
-- 110/35693
    BID: 111.8      7500    @4
    ASK: 111.9      38000   @4
    LastPrice                float64{111.9}
    LastTradeQty             float64{500}
    DailyHighPrice           float64{113.8}
    DailyLowPrice            float64{110}
    DailyTotalVolumeTraded   float64{21877834}
    DailyTotalAssetTraded    float64{2461080732}
    LastTradePrice           float64{111.9}
    LastTradeTimestamp        Timestamp{2014-07-21 07:59:58}
    InternalDailyOpenTimestamp Timestamp{2014-07-21 01:20:00:041}
    InternalDailyCloseTimestamp Timestamp{2014-07-21 08:00:00:028}
    InternalDailyHighTimestamp Timestamp{2014-07-21 02:08:05:428}
    InternalDailyLowTimestamp Timestamp{2014-07-21 01:31:50:711}
    InternalPriceActivityTimestamp Timestamp{2014-07-21 08:00:00:022}
    TradingStatus            18=NotAvailableForTrading
    TradingSessionId         int8{2}
    LastOffBookTradePrice    float64{111.85}
    LastOffBookTradeQty      float64{500}
    LastOffBookTradeTimestamp Timestamp{2014-07-21 07:57:34}
    SessionTotalOffBookAssetTraded float64{10427550}
    SessionTotalOffBookVolumeTraded float64{93000}
    PriorSessionsTotalAssetTraded float64{1543006041.5}
    PriorSessionsTotalVolumeTraded float64{13683679}
    PriorSessionsTotalOffBookAssetTraded float64{17634792.6}
    PriorSessionsTotalOffBookVolumeTraded float64{156973}
    SessionTotalVolumeTraded float64{8194155}
    SessionOpeningPrice       float64{112.2}
    SessionHighPrice          float64{112.7}
    SessionLowPrice           float64{111}
    SessionVWAPPrice          float64{112.497}
    SessionTotalAssetTraded   float64{918074690.5}
    SessionClosingPrice       float64{111.7}
    DailyOpeningPrice         float64{111.2}
    DailyClosingPrice         float64{111.7}
    CurrentBusinessDay        Timestamp{2014-05-21}
    DailyTotalOffBookVolumeTraded float64{249973}
    DailyTotalOffBookAssetTraded float64{28062342.6}
    InternalDailyClosingPriceType char{a}
    InternalLastAuctionTimestamp Timestamp{2014-07-21 01:19:58:693}
    PriceActivityMarketTimestamp Timestamp{2014-07-21 08:00:00:022}
    MARKET_HK_TradingState    string{DC}
    MARKET_HK_ShortSellSharesTraded float64{1973000}
    MARKET_HK_ShortSellTurnover float64{222067050}
```

2.3. Changes to the Quotation Context Data

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

Table 4 Quotation tags added on the ORION EQUITIES 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 tags:

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"
"VU (ValuesUpdate) : SERVER_TIME INSTRUMENT VALUES..."
"SI (TradeEvent) *SIGNAL* : SERVER_TIME INSTRUMENT SIGNAL LAST_PRICE"

TE 2014-05-21 01:30:05:000 230689120 9.03 558 * * * * L
TradeCondition=g=split_trade,TradeID=82
TE 2014-05-21 01:30:05:000 230715640 6.72 1000 * * * * H TradeID=4
```

3. QuantFEED® Technical Implementation

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

- 3.1. OperatingMIC and SegmentMIC
- 3.2. InternalDailyClosingPriceType
- 3.3. TradeCondition.

3.1. OperatingMIC and SegmentMIC

The values of the referential tags **OperatingMIC** and **SegmentMIC** conveyed on the ORION EQUITIES market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the parent and child MIC.

QuantFEED® implementation of the values currently available for the tags operatingMIC and segmentMIC is shown below (existing values are in black, newly added values are in **green**, and removed values are in ~~crossed-out-red~~):

Table 5 OperatingMIC and SegmentMIC – technical implementation in QuantFEED®

Component	Value		Description
Tag Name	OperatingMIC	SegmentMIC	QuantFEED® tag name.
Numeric ID	9533	9534	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	String data type.
Format	<i>[Exchange specific value]</i>	<i>[Exchange specific value]</i>	An <i>exchange specific value</i> , specifying the parent and child MICs.
Possible Values	XHKG	XHKG <Not sent>	Hong Kong Exchanges and Clearing Ltd.
	XHKG	XGEM	Hong Kong Growth Enterprises Market

3.2. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the ORION EQUITIES market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the type of the internal daily closing 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 values currently available for the tag **InternalDailyClosingPriceType** is described in the table below (currently disseminated values are in **green**):

Table 6 InternalDailyClosingPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	InternalDailyClosingPriceType	QuantFEED® tag name.
Numeric ID	9155	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Internal Specific Value]</i>	An internal specific value , detailing the type of daily closing price, as described below.
Possible Values	0	Undefined
	a	Official Close – Explicit closing price value calculated and distributed by an exchange for the main trading session of a given trading day.
	b	Official Indicative – Exchange has provided an indicative price and marked it as indicative, however no trading activity is observed.
	c	Official Carry Over – Explicit Closing price value from a previous trading day carried forward by the exchange to the given trading day.
	d	Last Price – Final price disseminated by the exchange for the main trading session or dissemination period of a given trading day (for indices).
	e	Last Eligible Price – Execution price of the final trade (subject to trade qualifiers) accepted by the exchange for the main trading session of a given trading day.
	z	Manual – Price disseminated manually (in case of production correction).

3.3. TradeCondition

The values of the quotation tag **TradeCondition** conveyed on the ORION EQUITIES 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 7 TradeCondition – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	TradeCondition	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.
Possible Values	g	Split Trade – Odd Lots

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>.