

## **FeedOS™ Developer's Notice**

---

### **NGM – Quotation Tags Update**

Reference n°: 20150313 – 24493 – 24436

**Effective as of: 13 April 2015\***

**Action required from users: MANDATORY ACTION**



\* For the actual day when the changes to your custom feed handler take effect, please contact your QuantFEED® project manager.

S&P Capital IQ Real-Time Solutions  
FeedOS™ Developer's Notice: NGM – Quotation Tags Update  
Reference 20150313 – 24493 – 24436  
March 25, 2015

**France Offices**

52 Rue de la Victoire  
75009 Paris  
France  
Tel: +33 (0) 1 73 02 32 11

**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.capitaliq.com](http://www.capitaliq.com)

Copyright © 2015 by Standard & Poor's Financial Services LLC, a part of McGraw Hill Financial.

All rights reserved. S&P CAPITAL IQ is a trademark of Standard & Poor's Financial Services LLC. STANDARD & POOR'S, S&P, GLOBAL CREDIT PORTAL and RATINGSDIRECT are registered trademarks of Standard & Poor's Financial Services LLC.

No content (including ratings, credit-related analyses and data, valuations, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of Standard & Poor's Financial Services LLC or its affiliates (collectively, S&P). The Content shall not be used for any unlawful or unauthorized purposes. S&P and any third-party providers, as well as their directors, officers, shareholders, employees or agents (collectively S&P Parties) do not guarantee the accuracy, completeness, timeliness or availability of the Content. S&P Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for the results obtained from the use of the Content, or for the security or maintenance of any data input by the user. The Content is provided on an "as is" basis. S&P PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT'S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION. In no event shall S&P Parties be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Content even if advised of the possibility of such damages.

Credit-related and other analyses, including ratings, and statements in the Content are statements of opinion as of the date they are expressed and not statements of fact or recommendations to purchase, hold, or sell any securities or to make any investment decisions. S&P assumes no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. S&P's opinions and analyses do not address the suitability of any security. S&P does not act as a fiduciary or an investment advisor except where registered as such. While S&P has obtained information from sources it believes to be reliable, S&P does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives.

S&P keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of S&P may have information that is not available to other S&P business units. S&P has established policies and procedures to maintain the confidentiality of certain non-public information received in connection with each analytical process.



# UPDATE OF THE QUOTATION TAGS ON THE NGM MARKET DATA STREAM

To improve the quality of the market data disseminated on the NGM market data stream, S&P Capital IQ Real-Time Solutions has decided to enhance the content of FeedOS.

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. FeedOS Technical Implementation](#)
- [3. Finding the Latest Information.](#)

## 1. Update Summary

Table 1 Current update summary

Notice Reference	20150313 – 24493 – 24436
Exchanges	NGM
Concerned MICs	XNGM, NMTF
Internal Source ID	198
Effective Date	2015-04-13*
Impact	<ul style="list-style-type: none"><li>• Update of the Quotation Tags</li><li>• Update of the Level1 Market Data Kinematics</li><li>• Microsecond Timestamp Precision on the Level1 Market Data</li></ul>
Action required	<b>MANDATORY ACTION</b> - see sections: <ul style="list-style-type: none"><li>• <a href="#">2.2. Update of the Level1 Market Data Kinematics – Trading Status of the Knocked Out Instruments.</a></li></ul>

## 2. FeedOS Technical Implementation

Effective Monday, **April 13<sup>\*</sup> 2015**, S&P Capital IQ Real-Time Solutions enhances the quotation data and updates the Level1 Market Data Kinematics on the NGM market data stream, as described below:

- [2.1. Changes to the Quotation Data](#)
- [2.2. Update of the Level1 Market Data Kinematics – Trading Status of the Knocked Out Instruments](#)
- [2.3. Microsecond Timestamp Precision on the Level1 Market Data.](#)

### 2.1. Changes to the Quotation Data

S&P Capital IQ Real-Time Solutions **introduces** the quotation tags below to accommodate the information disseminated on the NGM market data stream:

**Table 2** Quotation tags added on the NGM market data stream

Tag Name	Numeric ID	Type
<a href="#">InternalDailyClosingPriceType</a>	9155	Char

#### 2.1.1. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the NGM market data stream are disseminated via FeedOS 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.

FeedOS implementation of the tag **InternalDailyClosingPriceType** is described in the table below (the values disseminated as of 2015-04-13 are highlighted in **green**):

**Table 3** InternalDailyClosingPriceType – technical implementation in QuantFEED®

Component	Value	Description
<b>Tag Name</b>	<a href="#">InternalDailyClosingPriceType</a>	FeedOS tag name.
<b>Numeric ID</b>	9155	FeedOS unique ID disseminated on S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
<b>Type</b>	Char	Char data type.
<b>Format</b>	<i>[Internal Specific Value]</i>	An <b>internal specific value</b> , detailing the type of daily closing price, as described below.

\* This is the proposed day for the update of the standard version of the feed handler. For dedicated feed handlers, the date and Source IDs may differ. For the actual day when the changes to your custom feed handler will take effect, please contact your FeedOS™ project manager.

**Table 3 InternalDailyClosingPriceType – technical implementation in QuantFEED® (Continued)**

Component	Value	Description
<b>Possible Values</b>	0	<b>Undefined</b>
	a	<b>Official Close</b> – Explicit closing price value calculated and distributed by an exchange for the main trading session of a given trading day.
	<b>b</b>	<b>Official Indicative</b> – Exchange has provided an indicative price and marked it as indicative, however no trading activity is observed.
	c	<b>Official Carry Over</b> – Explicit Closing price value from a previous trading day carried forward by the exchange to the given trading day.
	<b>d</b>	<b>Last Price</b> – Final price disseminated by the exchange for the main trading session or dissemination period of a given trading day (for indices).
	e	<b>Last Eligible Price</b> – 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	<b>Manual</b> – Price disseminated manually (in case of production correction).

## Quotation Data Sample

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

```
-- 252/14084
  BID: 84.34      1000000 @1
  ASK: 0 0      *NO ORDER*
  LastPrice                float64{85.84}
  LastTradeQty             float64{150000}
  DailyTotalVolumeTraded   float64{0}
  DailyTotalAssetTraded    float64{0}
  LastTradePrice           float64{85.84}
  LastTradeTimestamp       Timestamp{2015-02-25 12:17:48:904}
  InternalDailyOpenTimestamp Timestamp{2015-03-13 08:00:03:595}
  InternalDailyCloseTimestamp Timestamp{2015-03-12 15:30:02:959}
  InternalDailyHighTimestamp Timestamp{2015-02-25 12:17:50:981}
  InternalDailyLowTimestamp Timestamp{2015-02-25 12:17:50:981}
  InternalPriceActivityTimestamp Timestamp{2015-03-13 08:01:07:178}
  TradingStatus            15=NewPriceIndication
  PreviousDailyTotalVolumeTraded float64{0}
  PreviousDailyTotalAssetTraded float64{0}
  PreviousDailyClosingPrice float64{85.84}
  PreviousBusinessDay       Timestamp{2015-03-12}
  CurrentBusinessDay        Timestamp{2015-03-13}
  InternalDailyClosingPriceType char{b}
```

## 2.2. Update of the Level1 Market Data Kinematics – Trading Status of the Knocked Out Instruments

In the Level1 Market Data Kinematics **before 2015-04-13**, when the tag MARKET\_NGM\_KnockOutBuyback received the value Y=Knock out soft, a halted knocked out instrument changed its Trading Status from 2=TradingHalt to 17=ReadyToTrade after the OPEN signal, as shown in the example below:

```
"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"

VU 06:59:59:682 252/28794 TradingStatus=21
VU 07:00:00:475 252/28794 MARKET_NGM_KnockOutBuyback=Y TradingStatus=2
SI 08:00:00:244 252/28794 OPEN *
TE 08:00:00:244 252/28794 * * * * * * 0
VU 08:00:00:244 252/28794 MARKET_NGM_KnockOutBuyback=Y TradingStatus=17
```

In the Level1 Market Data Kinematics **after 2015-04-13**, when the tag MARKET\_NGM\_KnockOutBuyback received the value Y=Knock out soft, a halted knocked out instrument will remain halted (Trading Status 2=TradingHalt) even after the OPEN signal, as shown in the example below:

```
"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"

VU 07:00:00:475.254 252/28794 MARKET_NGM_KnockOutBuyback=Y TradingStatus=2
SI 08:00:00:244.178 252/28794 OPEN *
TE 08:00:00:244.178 252/28794 * * * * * * 0
VU 08:00:00:244.178 252/28794 MARKET_NGM_KnockOutBuyback=Y
```

## 2.3. Microsecond Timestamp Precision on the Level1 Market Data

Effective 2015-04-13, the server timestamps will display microsecond units on the Level1 Market Data, as shown in the example below (highlighted in **green**):

```
"TE (TradeEvent) : MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE
ASK_QTY *CONTENT_MASK* *FLAGS*"

TE 14:06:20:564.560 528504599 * * 133 1800@9 * *
TE 14:06:20:564.560 528504599 * * 133 1600@8 * *
TE 14:06:20:564.560 528504599 * * 133 1400@7 * *
TE 14:06:20:564.560 528504599 * * 133 1200@6 * *
TE 14:06:20:564.560 528504599 * * 133 1000@5 * *
TE 14:06:20:564.560 528504599 * * 133 800@4 * *
```

### 3. 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](mailto:rts-support@spcapitaliq.com)
- Web: <https://support.quanthouse.com>.