

**S&P Capital IQ Real-Time Solutions**

## **QuantFEED® Developer's Notice**

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### **CME – Feed Update**

Reference n°: 20351 – 20908 – 20140603

**Effective as of: 23 June 2014\***

**Action required from users: MANDATORY ACTION**



\* This is the proposed day for the update of the standard version of the feed handler. For dedicated feed handlers, this date may differ. 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 (QuantHouse®) – QuantFEED®  
QuantFEED® Developer's Notice  
Reference 20351 – 20908 – 20140603  
June 13, 2014

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# UPDATE OF THE CME MARKET DATA STREAM

To reflect the changes caused by the dissemination of new values on the CME 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. QuantFEED® Technical Implementation](#)
- [3. Finding the Latest Information.](#)

## 1. Update Summary

Table 1 Current update summary

Notice Reference	20351 – 20908 – 20140603
Exchanges	CME
Concerned MICs	XCME, XCBT, XCEC, XNYM
Internal Source ID	15, 16, 17
Effective Date	2014-06-23*
Impact	<ul style="list-style-type: none"><li>• Update of the Referential Tags</li><li>• Update of the Quotation Tags</li></ul>
Action required	<b>MANDATORY ACTION</b> – see section <a href="#">2.1.1. CFICode</a>

## 2. QuantFEED® Technical Implementation

Effective Monday, **June 23<sup>\*</sup>, 2014**, S&P Capital IQ Real-Time Solutions enhances the content of the referential and quotation data to accommodate the new information disseminated on the CME market data stream, as described below:

- [2.1. Changes to the Referential Data](#)
- [2.2. Changes to the Quotation Data.](#)

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\* This is the proposed day for the update of the standard version of the feed handler. For dedicated feed handlers, this date may differ. For the actual day when the changes to your custom feed handler take effect, please contact your QuantFEED® project manager.

## 2.1. Changes to the Referential Data

S&P Capital IQ Real-Time Solutions **introduces** the referential tag below to accommodate the information broadcast on the CME market data stream:

**Table 2** Referential tags added on the CME market data stream

Tag Name	Numeric ID	Type
MarketSegmentID	1300	String
MarketSegmentDesc	1396	String

Moreover, S&P Capital IQ Real-Time Solutions **updates** the values disseminated by the referential tags below to accommodate the information broadcast on the CME market data stream:

**Table 3** Referential tags added on the CME market data stream

Tag Name	Numeric ID	Type
CFICode	461	String

### 2.1.1. CFICode

The values of the referential tag **CFICode** conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the standardized identification code of an instrument.

QuantFEED® implementation of the values currently available for the tag CFICode is described in the table below (existing values are in black, removed values are in ~~crossed-out-red~~):

**Table 4** CFICode – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	CFICode	QuantFEED® tag name.
Numeric ID	461	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 <b>exchange specific value</b> , detailing the standardized identification code of an instrument, as detailed below.
Possible Values	<b>CME CBOT (XCBT)</b>	
	FCAXSX	Futures - Commodities Futures - Agriculture, forestry and fishing - Standardized
	FCMXSX	Futures - Commodities Futures - Other - Standardized
	FFDXSX	Futures - Financial Futures - Debt Instruments - Standardized
	FFIXSX	Futures - Financial Futures - Indices - Standardized
	FMAXSX	Futures - Other - Agriculture, forestry and fishing - Standardized
	FMDXSX	Futures - Other - Debt Instruments - Standardized
	FMIXSX	Futures - Other - Indices - Standardized
	FMMXSX	Futures - Other - Other - Standardized
	OCAFPS	Options - Call Options - American - Futures - Physical - Standardized
	OCEFPS	Options - Call Options - European - Futures - Physical - Standardized
	OMAFXS	Options - Other - American - Futures - Standardized

**Table 4 CFICode – technical implementation in QuantFEED® (Continued)**

Component	Value	Description
<b>Possible Values</b>	<del>OMEFXS</del>	Options - Other - European - Futures - Standardized
	OMXFXS	Options - Other - Futures - Standardized
	OPAFPS	Options - Put Options - American - Futures - Physical - Standardized
	OPEFPS	Options - Put Options - European - Futures - Physical - Standardized
	<b>CME NYMEX (XCEC, XNYM)</b>	
	FCAXSX	Futures - Commodities Futures - Agriculture, forestry and fishing - Standardized
	FCMXSX	Futures - Commodities Futures - Other - Standardized
	FCXXSX	Futures - Commodities Futures - Standardized
	FMAXSX	Futures - Other - Agriculture, forestry and fishing - Standardized
	FMMXSX	Futures - Other - Other - Standardized
	FMXXSX	Futures - Other - Standardized
	FXXXSX	Futures - Standardized
	OCAFPS	Options - Call Options - American - Futures - Physical - Standardized
	<del>OCAXPS</del>	Options - Call Options - American - Physical - Standardized
	OCEFPS	Options - Call Options - European - Futures - Physical - Standardized
	<del>OCEXPS</del>	Options - Call Options - European - Physical - Standardized
	OMAFXS	Options - Other - American - Futures - Standardized
	OMEFXS	Options - Other - European - Futures - Standardized
	OMXFXS	Options - Other - Futures - Standardized
	OPAFPS	Options - Put Options - American - Futures - Physical - Standardized
	<del>OPAXPS</del>	Options - Put Options - American - Physical - Standardized
	OPEFPS	Options - Put Options - European - Futures - Physical - Standardized
	<del>OPEXPS</del>	Options - Put Options - European - Physical - Standardized

The example below shows the list of branches on the CME market data stream changed by the CFICode refinement, before and after 2014-06-23:

<b>CME CBOT</b>	
<b>BEFORE 2014-06-23</b>	<b>AFTER 2014-06-23</b>
{ XCBT MLEG FMAXSX }	{ XCBT MLEG FMAXSX }
{ XCBT MLEG FMDXSX }	{ XCBT MLEG FMDXSX }
{ XCBT MLEG FMIXSX }	{ XCBT MLEG FMIXSX }
{ XCBT MLEG FMMXSX }	{ XCBT MLEG FMMXSX }
{ XCBT MLEG OMAFXS }	{ XCBT MLEG OMAFXS }
{ XCBT MLEG OMEFXS }	
{ XCBT MLEG OMXFXS }	{ XCBT MLEG OMXFXS }
<b>CME NYMEX</b>	
<b>BEFORE 2014-06-23</b>	<b>AFTER 2014-06-23</b>
{ XCEC OPT OCAXPS }	{ XCEC OPT OCAFPS }
{ XCEC OPT OCEXPS }	{ XCEC OPT OCEFPS }
{ XCEC OPT OPAXPS }	{ XCEC OPT OPAFPS }
{ XCEC OPT OPEXPS }	{ XCEC OPT OPEFPS }

2.1.2. MarketSegmentID

The values of the referential tag **MarketSegmentID** conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Referential* to detail the ID of the market segment.

QuantFEED® implementation of values currently available for the tag MarketSegmentID is described below:

Table 5      MarketSegmentID – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MarketSegmentID	QuantFEED® tag name.
Numeric ID	1300	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format / Possible Values	[Exchange specific value]	An <b>exchange specific value</b> , detailing the ID of the market segment.

2.1.3. MarketSegmentDesc

The values of the referential tag **MarketSegmentDesc** conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Referential* to describe the market segment.

QuantFEED® implementation of the values currently available for tag MarketSegmentDesc is described below:

**Table 6      MarketSegmentDesc – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	MarketSegmentDesc	QuantFEED® tag name.
Numeric ID	1396	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions'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> , describing the market segment.

Below is an example of the current implementation of the newly added (in green) and updated (in blue) referential tags:

```
instr # 326/177625 = 683849177
  PriceCurrency      string{USD}
  Symbol            string{OG}
  Description        string{GOLDMAN SACHS OPTIONS}
  SecurityType      string{OPT}
  StrikePrice       float64{14.4}
  FOSMarketId       XCEC
  CFICode           string{OCAXPS}
  MinTradeVol       float64{1}
  StrikeCurrency     string{USD}
  MatchAlgorithm     string{F}
  MarketSegmentID   string{2}
  MarketSegmentDesc string{Commodity/Agriculture}
  InternalCreationDate Timestamp{2014-04-26 10:23:10:982}
  InternalModificationDate Timestamp{2014-06-10 21:31:03:681}
  InternalSourceId   uint16{15}
  LocalCodeStr       string{OGM7_C1440}
  PriceIncrement_static float64{0.1}
  PriceDisplayPrecision int16{2}
  UnderlyingFOSMarketId XCEC
  UnderlyingLocalCodeStr string{GCM7}
  UnderlyingFOSInstrumentCode uint32{683770746}
  MaturityYear       uint16{2017}
  MaturityMonth       uint8{5}
  MaturityDay         uint8{25}
```

## 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 CME market data stream:

**Table 7** Quotation tags added on the CME market data stream

Tag Name	Numeric ID	Type
<a href="#">OpenInterest</a>	9150	Float64
<a href="#">SettlementPriceType</a>	9383	Char
<b>NOTE:</b> In an upcoming release, the tag <code>SettlementPriceType</code> (9383, Char) will disseminate the values currently available via the tag <code>SettlePriceType</code> (731, UInt8). Moreover, the tag <code>SettlePriceType</code> (731, UInt8) will be deprecated.		
<a href="#">PreviousSettlementPriceType</a>	9384	Char

### 2.2.1. OpenInterest

The values of the quotation tag **Open Interest** conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the amount of derivative contracts that have not been settled in the immediately previous time period for a specific underlying security:

- 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 `openInterest` is described in the table below:

**Table 8** `OpenInterest` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>OpenInterest</code>	QuantFEED® tag name.
Numeric ID	9150	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions 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 value</b> , detailing the amount of derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

### 2.2.2. SettlementPriceType

The values of the quotation tag **SettlementPriceDate** conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the type of settlement 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 tag `SettlementPriceType` is described in the following table:

**Table 9 SettlementPriceType – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	<code>SettlementPriceType</code>	QuantFEED® tag name.
Numeric ID	9383	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	Timestamp data type.
Format	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , indicating the type of settlement price.
Possible Values	a	Official Daily Settlement Price
	b	Preliminary Settlement Price, subject to change until the Official Daily Settlement Price is published.

**Caution** In an upcoming release, the tag `SettlementPriceType` (9383, Char) will disseminate the values currently available via the tag `SettlePriceType` (731, UInt8). Moreover, the tag `SettlePriceType` (731, UInt8) will be removed.

### 2.2.3. PreviousSettlementPriceType

The values of the quotation tag `PreviousSettlementPriceDate` conveyed on the CME market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the type of the previous settlement 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 tag `PreviousSettlementPriceType` is described in the following table:

**Table 10 PreviousSettlementPriceType – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	<code>PreviousSettlementPriceType</code>	QuantFEED® tag name.
Numeric ID	9384	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	Timestamp data type.
Format	<i>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , indicating the type of the previous settlement price.
Possible Values	a	Official Daily Settlement Price
	b	Preliminary Settlement Price, subject to change until the Official Daily Settlement Price is published.

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

```
InstrumentStatusL1
-- 309/409829
  BID: 0 0      *NO ORDER*
  ASK: 0 0      *NO ORDER*
  LastPrice      float64{1.316}
  LastTradeQty   float64{6}
  DailyTotalVolumeTraded float64{0}
  DailyTotalAssetTraded float64{0}
  LastTradePrice float64{1.316}
  LastTradeTimestamp Timestamp{2014-07-02 15:13:05:764}
  InternalDailyOpenTimestamp Timestamp{2014-07-01 23:00:00:010}
  InternalDailyCloseTimestamp Timestamp{2014-07-02 22:00:00:012}
  InternalDailyHighTimestamp Timestamp{2014-07-01 23:00:02:455}
  InternalDailyLowTimestamp Timestamp{2014-07-01 07:03:44:002}
  InternalPriceActivityTimestamp Timestamp{2014-07-02 22:00:00:012}
  SettlePriceType uint8{100}
  LowLimitPrice   float64{0}
  TradingStatus   18=NotAvailableForTrading
  DailyClosingPrice float64{1.316}
  PreviousDailyTotalVolumeTraded float64{0}
  PreviousDailyTotalAssetTraded float64{0}
  PreviousDailyClosingPrice float64{1.316}
  PreviousBusinessDay Timestamp{2014-07-01}
  CurrentBusinessDay Timestamp{2014-07-02}
  PreviousDailySettlementPrice float64{1.3171}
  OpenInterest      float64{7}
  SettlementPriceType char{b}
  PreviousSettlementPriceType char{a}
```

### 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: <http://support.quanthouse.com>.