

FeedOS™ Developer's Notice

CEF SCOACH – Feed Update

Reference n°: 20150622 – 22887 – 26830 – 27406

Effective as of: 06 July 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: CEF SCOACH – Feed Update
Reference 20150622 – 22887 – 26830 – 27406
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UPDATE OF THE CEF SCOACH MARKET DATA STREAM

To improve the quality of market data disseminated on the CEF SCOACH 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	20150622 – 22887 – 26830 – 27406
Exchanges	CEF SCOACH
Concerned MICs	XETA
Internal Source ID	57
Effective Date	2015-07-06*
Impact	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags• Update of the Level1 Market Data Kinematics
Action required	MANDATORY ACTION - see sections: <ul style="list-style-type: none">• 2.2.5. TradingStatus• 2.3. Update of the Level1 Market Data Kinematics – OPEN.

2. FeedOS Technical Implementation

Effective Monday, **July 06^{*} 2015**, S&P Capital IQ Real-Time Solutions enhances the referential and quotation data, and updates the Level1 Market Data Kinematics to accommodate the information disseminated on the CEF SCOACH market data stream, as described below:

- [2.1. Changes to the Referential Data](#)
- [2.2. Changes to the Quotation Data](#)
- [2.3. Update of the Level1 Market Data Kinematics – OPEN.](#)

2.1. Changes to the Referential Data

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

Table 2 Referential tags added on the CEF SCOACH market data stream

Tag Name	Numeric ID	Type
SecurityStatus	965	UInt8
MaturityYear	9512	Int16
MaturityMonth	9513	UInt8
MaturityDay	9514	UInt8
OperatingMIC	9533	String
MARKET_XETRA_SegmentCode	11100	String

Moreover, S&P Capital IQ Real-Time Solutions **updates** the referential tags below:

Table 3 Referential tags disseminating updated values on the CEF SCOACH market data stream

Tag Name	Numeric ID	Type
InternalModificationDate	9401	Timestamp

2.1.1. SecurityStatus

The values of the referential tag **SecurityStatus** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to indicate the status of an instrument.

* 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.

FeedOS implementation of the tag **SecurityStatus** is described in the table below:

Table 4 SecurityStatus – technical implementation in FeedOS

Component	Value	Description
Tag Name	SecurityStatus	FeedOS tag name.
Numeric ID	965	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	UInt8	UInt8 data type.
Format	<i>[Exchange Specific Value]</i>	An exchange specific value , indicating the status of an instrument.
Possible Values	1	Active (Default value)
	2	Inactive
	3	Suspended

2.1.2. MaturityYear

The values of the referential tag **MaturityYear** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to specify the year on which the principal is required to be repaid.

FeedOS implementation of the tag **MaturityYear** is described in the table below:

Table 5 MaturityYear – technical implementation in FeedOS

Component	Value	Description
Tag Name	MaturityYear	FeedOS tag name.
Numeric ID	9512	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Int16	Int16 data type.
Format / Possible Value	<i>[Exchange Specific Value]</i>	An exchange specific value , specifying the year on which the principal is required to be repaid.

2.1.3. MaturityMonth

The values of the referential tag **MaturityMonth** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to specify the month on which the principal is required to be repaid.

FeedOS implementation of the tag **MaturityMonth** is described in the table below:

Table 6 MaturityMonth – technical implementation in FeedOS

Component	Value	Description
Tag Name	MaturityMonth	FeedOS tag name.
Numeric ID	9513	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	UInt8	UInt8 data type.
Format / Possible Value	<i>[Exchange Specific Value]</i>	An exchange specific value , specifying the month on which the principal is required to be repaid.

2.1.4. MaturityDay

The values of the referential tag **MaturityDay** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to specify the day on which the principal is required to be repaid.

FeedOS implementation of the tag MaturityDay is described in the table below:

Table 7 MaturityDay – technical implementation in FeedOS

Component	Value	Description
Tag Name	MaturityDay	FeedOS tag name.
Numeric ID	9514	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	UInt8	UInt8 data type.
Format / Possible Value	<i>[Exchange specific value]</i>	An exchange specific value , specifying the day on which the principal is required to be repaid.

2.1.5. OperatingMIC

The values of the referential tag **OperatingMIC** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to specify the parent MIC.

FeedOS implementation of the tag OperatingMIC is described in the table below:

Table 8 OperatingMIC – technical implementation in FeedOS

Component	Value	Description
Tag Name	OperatingMIC	FeedOS tag name.
Numeric ID	9533	FeedOS unique ID disseminated on the 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 , specifying the parent MIC.
Possible Values	XSCO	Boerse Frankfurt Warrants Technical

2.1.6. MARKET_XETRA_SegmentCode

The values of the referential tag **MARKET_XETRA_SegmentCode** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to uniquely identify a particular trading area as defined by the exchange.

FeedOS implementation of the tag `MARKET_XETRA_SegmentCode` is detailed in the table below:

Table 9 `MARKET_XETRA_SegmentCode` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>MARKET_XETRA_SegmentCode</code>	FeedOS tag name.
Numeric ID	11100	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions 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 exchange specific value uniquely identifying a particular trading area as defined by the exchange.

2.1.7. InternalModificationDate

The values of the quotation tag `InternalModificationDate` conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Referential* to detail the timestamp of last modification (server time in UTC):

- 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 `InternalModificationDate` is described in the following table:

Table 10 `InternalModificationDate` – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>InternalModificationDate</code>	FeedOS tag name.
Numeric ID	9401	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Timestamp	Timestamp data type.
Format / Possible Values	<i>[Internal specific value]</i>	An internal specific value , detailing the timestamp of last modification (server time in UTC). Note: Before 2015-07-06, the tag was updated each day. After 2015-07-06, the tag will be updated only when there is a change in the referential data.

Referential Data Sample

The example below shows the current implementation of the newly added (in green) referential tags:

```
BEFORE 2015-07-06
instr # 341/1265486 = 716394318
  PriceCurrency      string{EUR}
  SecurityType       string{WAR}
  FOSMarketId        XETA
  CFICode            string{RWXXX}
  InternalCreationDate Timestamp{2015-06-08 05:09:20:005}
  InternalModificationDate Timestamp{2015-06-09 05:09:20:824}
  InternalSourceId    uint16{57}
  LocalCodeStr        string{DE000PS57N24}
  ISIN                string{DE000PS57N24}

AFTER 2015-07-06
instr # 341/1265486 = 716394318
  PriceCurrency      string{EUR}
  SecurityType       string{WAR}
  FOSMarketId        XETA
  CFICode            string{RWXXX}
  SecurityStatus      uint8{2}
  InternalCreationDate Timestamp{2015-06-08 21:35:19:001}
  InternalModificationDate Timestamp{2015-06-09 05:48:06:410}
  InternalSourceId    uint16{57}
  InternalEntitlementId int32{1118}
  LocalCodeStr        string{DE000PS57N24}
  ISIN                string{DE000PS57N24}
  MaturityYear        uint16{2015}
  MaturityMonth        uint8{6}
  MaturityDay          uint8{24}
  OperatingMIC         string{XSCO}
  MARKET_XETRA_SegmentCode string{Scoach Frankfurt 2}
```

2.2. Changes to the Quotation Data

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

Table 11 Quotation tags added on the CEF SCOACH market data stream

Tag Name	Numeric ID	Type
CurrentBusinessDay	9100	Enum
InternalDailyClosingPriceType	9155	Char
InternalDailyOpenTimestamp	9300	Timestamp
PriceActivityMarketTimestamp	9309	Timestamp

Moreover, S&P Capital IQ Real-Time Solutions **updates** the quotation tags below:

Table 12 Quotation tags disseminating updated values on the CEF SCOACH market data stream

Tag Name	Numeric ID	Type
TradingStatus	9100	Enum

2.2.1. CurrentBusinessDay

The values of the quotation tag **CurrentBusinessDay** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the current business day, set at technical open signal time:

- 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 **CurrentBusinessDay** is described in the following table:

Table 13 CurrentBusinessDay – technical implementation in FeedOS

Component	Value	Description
Tag Name	CurrentBusinessDay	FeedOS tag name.
Numeric ID	9144	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Timestamp	Timestamp data type.
Format / Possible Values	<i>[Exchange specific value]</i>	An exchange specific value , indicating the current business day, set at technical open signal time.

2.2.2. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the type of 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 2015-07-06 are highlighted in **green**):

Table 14 InternalDailyClosingPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	InternalDailyClosingPriceType	FeedOS tag name.
Numeric ID	9155	FeedOS 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.

Table 14 InternalDailyClosingPriceType – technical implementation in QuantFEED® (Continued)

Component	Value	Description
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).

2.2.3. InternalDailyOpenTimestamp

The values of the quotation tag **InternalDailyOpenTimestamp** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Other Values* to detail the timestamp of the last **DailyOpen** signal (server timestamp UTC):

- 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 **InternalDailyOpenTimestamp** is described in the following table:

Table 15 InternalDailyOpenTimestamp – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>InternalDailyOpenTimestamp</code>	FeedOS tag name.
Numeric ID	9300	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Timestamp	Timestamp data type.
Format / Possible Values	<i>[Internal Specific value]</i>	An <i>internal specific value</i> , detailing the timestamp of the last DailyOpen signal (server timestamp UTC).

2.2.4. PriceActivityMarketTimestamp

The values of the quotation tag **PriceActivityMarketTimestamp** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS data stream in *Other Values* to detail the timestamp of the last **LastPrice/Ask/Bid** (market timestamp UTC):

- 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 `PriceActivityMarketTimestamp` is described in the following table:

Table 16 PriceActivityMarketTimestamp – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>PriceActivityMarketTimestamp</code>	FeedOS tag name.
Numeric ID	9309	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Timestamp	Timestamp data type.
Format / Possible Values	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the timestamp of the last LastPrice/Ask/Bid (market timestamp UTC).

2.2.5. TradingStatus

Each time a modification of the trading status occurs, the values of the quotation tag **TradingStatus** conveyed on the CEF SCOACH market data stream are disseminated via FeedOS 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.

FeedOS implementation of the tag `TradingStatus` is described in the following table (newly added values are highlighted in green):

Table 17 TradingStatus – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>TradingStatus</code>	FeedOS tag name.
Numeric ID	9100	FeedOS unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	Enum	Enum data type.
Format	<i>[Exchange Specific Value]</i>	An exchange specific value , detailing the characteristics of the trading status.
Possible Values	2	Trading Halt
	5	Price Indication
	15	New Price Indication
	17	Ready to Trade
	18	Not Available for Trading
	21	Pre-Open
	23	Fast Market

Quotation Data Sample

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

BEFORE 2015-07-06

InstrumentStatusL1

-- 341/1034

BID: 92.86	100000	
ASK: 93.86	100000	
LastPrice		float64{93.07}
DailyHighPrice		float64{93.07}
DailyLowPrice		float64{92.98}
InternalDailyCloseTimestamp		Timestamp{2015-04-27 18:45:42:907}
InternalDailyHighTimestamp		Timestamp{2015-06-09 08:11:04:601}
InternalDailyLowTimestamp		Timestamp{2015-06-09 07:30:20:663}
InternalPriceActivityTimestamp		Timestamp{2015-06-09 09:41:22:401}
TradingStatus		5=PriceIndication
DailyClosingPrice		float64{96.51}
PreviousDailyClosingPrice		float64{91.99}

AFTER 2015-07-06

InstrumentStatusL1

-- 341/1034

BID: 92.86	100000	
ASK: 93.86	100000	
LastPrice		float64{93.07}
DailyHighPrice		float64{93.07}
DailyLowPrice		float64{92.98}
InternalDailyOpenTimestamp		Timestamp{2015-06-09 07:00:02:894}
InternalDailyCloseTimestamp		Timestamp{2015-06-08 18:09:41:187}
InternalDailyHighTimestamp		Timestamp{2015-06-09 08:11:04:603}
InternalDailyLowTimestamp		Timestamp{2015-06-09 07:30:20:663}
InternalPriceActivityTimestamp		Timestamp{2015-06-09 09:40:19:080}
TradingStatus		15=NewPriceIndication
PreviousDailyClosingPrice		float64{91.99}
PreviousBusinessDay		Timestamp{2015-06-08}
CurrentBusinessDay		Timestamp{2015-06-09}
InternalDailyClosingPriceType		char{d}
PriceActivityMarketTimestamp		Timestamp{2015-06-09 09:40:15:001}

2.3. Update of the Level1 Market Data Kinematics – OPEN

In the Level1 Market Data Kinematics **before 2015-07-06**, the OPEN signal was sent when the first trade occurred, 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"

TE 06:00:58:954 716246699 * * 3.83 200000 3.84 200000
TE 06:00:59:018 716246699 * * 3.82 200000 3.83 200000
...
VU 07:00:01:196 716246699 TradingStatus=2
...
SI 07:00:03:627 716246699 OPEN 3.64
TE 07:00:03:627 716246699 3.64 500 * * * * OHL
...
VU 07:00:03:627 716246699 TradingStatus=5
..
VU 07:51:42:850 716246699 TradingStatus=2
...
VU 07:51:43:332 716246699 TradingStatus=5

```

In the Level1 Market Data Kinematics **after 2015-07-06**, the OPEN signal will be trade-independent and sent at 05:59 UTC, 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 05:59:04:166 716246699 OPEN TradingStatus=5
TE 06:00:58:954 716246699 * * 3.83 200000 3.84 200000
TE 06:00:59:018 716246699 * * 3.82 200000 3.83 200000
...
VU 07:00:01:196 716246699 TradingStatus=2
...
TE 07:00:03:627 716246699 3.64 500 OHL
...
VU 07:00:03:627 716246699 TradingStatus=5
..
VU 07:51:42:850 716246699 TradingStatus=2
...
VU 07:51:43:332 716246699 TradingStatus=5

```

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
- Web: <https://support.quanthouse.com>.