

S&P Capital IQ Real-Time Solutions

QuantFEED® Developer's Notice

ATHENS – Feed Update

Reference n°: 20140814 – 21582 – 21583

Effective as of: 01 December 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 20140814 – 21582 – 21583
November 21, 2014

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UPDATE OF THE ATHENS MARKET DATA STREAM

To reflect the changes caused by the dissemination of new values on the ATHENS 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	20140814 – 21582 – 21583
Exchanges	ATHENS
Concerned MICs	XATH, XCYS
Internal Source ID	90, 91
Effective Date	2014-12-01*
Impact	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags
Action required	MANDATORY ACTION – see sections 2.1.2. SecurityType and 2.1.3. CFICode .

2. QuantFEED® Technical Implementation

Effective Monday, **December 01^{*}, 2014**, S&P Capital IQ Real-Time Solutions enhances the referential and quotation data to accommodate the new information disseminated on the ATHENS market data stream, as described below:

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

* 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 disseminated on the ATHENS market data stream:

Table 2 Referential tags added on the ATHENS market data stream

Tag Name	Numeric ID	Type
BloombergTicker	9519	String

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

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

Tag Name	Numeric ID	Type
SecurityType	167	String
CFICode	461	String

Caution	Although the SecurityType and the CFICode change, the LocalCodeStr , the FOSMarketId and the Instrument Internal Code remain the same.
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2.1.1. BloombergTicker

The values of the referential tag **BloombergTicker** conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Referential* to identify a company or entity in Bloomberg system.

QuantFEED® implementation of the tag **BloombergTicker** is described in the table below:

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

Component	Value	Description
Tag Name	BloombergTicker	QuantFEED® tag name.
Numeric ID	9519	QuantFEED® 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 , identifying a company or entity in Bloomberg system.

2.1.2. SecurityType

The values of the referential tag **SecurityType** conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the type of security.

QuantFEED® implementation of the tag `SecurityType` is described in the table below (existing values are in black, newly added values are in green, and removed values are in ~~crossed-out-red~~):

Table 5 SecurityType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SecurityType	QuantFEED® tag name.
Numeric ID	167	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 type of security.
Possible Values	NONE	Unknown Security Type
	BOND	Bonds
	CB	Convertible Bond
	CORP	Corporate Bond
	CPP	Corporate Private Placement
	CS	Common Stock
	DUAL	Dual Currency
	EUCORP	Euro Corporate Bond
	EUFRN	Euro Corporate Floating Rate Notes
	EUSOV	Euro Sovereigns
	INDEX	Index
	MF	Mutual Fund (Exchangeable Traded Fund)
	OPT	Options
	PS	Preferred Stock
	REPO	Repurchase
	STRUCT	Structured Notes
	TB	Treasury Bill - non US
	TCAL	Principal Strip Of A Callable Bond Or Note
	TINT	Interest Strip From Any Bond Or Note
	TIPS	Treasury Inflation Protected Securities
	TPRN	Principal Strip From A Non-Callable Bond Or Note
	WAR	Warrant
	XLINKD	Indexed Linked

2.1.3. CFICode

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

QuantFEED® implementation of the tag CFICode is described in the table below (existing values are in black, newly added values are in green, and removed values are in ~~crossed-out red~~):

Table 6 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 exchange specific value , detailing the standardized identification code of an instrument.
Possible Values	DBXXXX	Debts - Bonds
	DYXXXX	Debts - Money Market Instruments
	EPXXXX	Equities - Preferred Shares
	ESXXXX	Equities - Shares
	EUXXXX	Equities - Units
	OCAFXX	Options - Call Options - American - Futures
	OCAXXX	Options - Call Options - American
	OCEFXX	Options - Call Options - European - Futures
	OCEXXX	Options - Call Options - European
	OPAFXX	Options - Put Options - American - Futures
	OPAXXX	Options - Put Options - American
	OPEFXX	Options - Put Options - European - Futures
	OPEXXX	Options - Put Options - European
	RWXXXX	Rights - Warrants
	RXXXXX	Rights
	SXXXXX	Structured Products
	TIXXXX	Referential Instruments - Indices
	XXXXXX	Undefined

Referential Data Sample

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

```
instr # 102/2861 = 213912365
  PriceCurrency      string{EUR}
  Symbol             string{HYGEI15F0.30}
  SecurityType       string{OPT}
  StdMaturity        string{201506}
  StrikePrice        float64{0.3}
  FOSMarketId        XADE
  ContractMultiplier float64{100}
  CFICode            string{OCAXXX}
  CountryOfIssue     string{GRC}
  MarketSegmentID    string{2}
  InternalCreationDate Timestamp{2014-10-01 14:59:48:770}
  InternalModificationDate Timestamp{2014-10-01 14:59:48:770}
  InternalSourceId    uint16{90}
  InternalEntitlementId ATD
  LocalCodeStr        string{HYGEI15F0.30}
  PriceIncrement_static float64{0.001}
  UnderlyingLocalCodeStr string{HYGEIA}
  MaturityYear        uint16{2015}
  MaturityMonth        uint8{6}
  MaturityDay          uint8{19}
  BloombergTicker      string{BBG5WWA}
  OperatingMIC         string{ASEX}
  SegmentMIC           string{XADE}
```

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 ATHENS market data stream:

Table 7 Quotation tags added on the ATHENS market data stream

Tag Name	Numeric ID	Type
DailySettlementPrice	9133	Float64
PreviousDailySettlementPrice	9145	Float64
OpenInterest	9150	Float64
InternalDailyClosingPriceType	9155	Char
PreviousInternalDailyClosingPriceType	9156	Char
SettlementPriceDate	9380	Timestamp
PreviousSettlementPriceDate	9381	Timestamp
OpenInterestDate	9382	Timestamp
SettlementPriceType	9383	Char
PreviousSettlementPriceType	9384	Char

2.2.1. DailySettlementPrice

The values of the quotation tag **DailySettlementPrice** conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to specify the value of the daily 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 tag `DailySettlementPrice` is described in the table below:

Table 8 DailySettlementPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>DailySettlementPrice</code>	QuantFEED® tag name.
Numeric ID	9133	QuantFEED® unique ID disseminated on the 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 exchange specific value , specifying the value of the daily settlement price.

2.2.2. PreviousDailySettlementPrice

The values of the quotation tag **PreviousDailySettlementPrice** conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to specify the value of the previous daily 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 tag `PreviousDailySettlementPrice` is described in the table below:

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

Component	Value	Description
Tag Name	<code>PreviousDailySettlementPrice</code>	QuantFEED® tag name.
Numeric ID	9145	QuantFEED® unique ID disseminated on the 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 exchange specific value , specifying the value of the previous daily settlement price.

2.2.3. OpenInterest

The values of the quotation tag **OpenInterest** conveyed on the ATHENS 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 tag `openInterest` is described in the table below:

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

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

2.2.4. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the ATHENS 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 tag `InternalDailyClosingPriceType` is described in the table below (currently disseminated values are in **green**):

Table 11 **InternalDailyClosingPriceType – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	<code>InternalDailyClosingPriceType</code>	QuantFEED® tag name.
Numeric ID	9155	QuantFEED® unique ID disseminated on the 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.
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).

2.2.5. PreviousInternalDailyClosingPriceType

The values of the quotation tag `PreviousInternalDailyClosingPriceType` conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the type of the previous 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 tag `PreviousInternalDailyClosingPriceType` is described in the table below (currently disseminated values are in **green**):

Table 12 `PreviousInternalDailyClosingPriceType` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>PreviousInternalDailyClosingPriceType</code>	QuantFEED® tag name.
Numeric ID	9156	QuantFEED® unique ID disseminated on the 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 the previous daily closing price.
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).

2.2.6. SettlementPriceDate

The values of the quotation tag `SettlementPriceDate` conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the date of the 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 `SettlementPriceDate` is described in the table below:

Table 13 SettlementPriceDate – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>SettlementPriceDate</code>	QuantFEED® tag name.
Numeric ID	9380	QuantFEED® 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 date of the settlement price.

2.2.7. PreviousSettlementPriceDate

The values of the quotation tag `PreviousSettlementPriceDate` conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the date 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 `PreviousSettlementPriceDate` is described in the table below:

Table 14 PreviousSettlementPriceDate – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>PreviousSettlementPriceDate</code>	QuantFEED® tag name.
Numeric ID	9381	QuantFEED® 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 date of the previous settlement price.

2.2.8. OpenInterestDate

The values of the quotation tag `OpenInterestDate` conveyed on the ATHENS market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the date of the 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 tag `OpenInterestDate` is described below:

Table 15 `OpenInterestDate` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>OpenInterestDate</code>	QuantFEED® tag name.
Numeric ID	9382	QuantFEED® 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 date of the derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

2.2.9. SettlementPriceType

The values of the quotation tag `SettlementPriceType` conveyed on the ATHENS 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 (currently disseminated values are in **green**):

Table 16 `SettlementPriceType` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>SettlementPriceType</code>	QuantFEED® tag name.
Numeric ID	9383	QuantFEED® unique ID disseminated on the 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 exchange specific value , indicating the type of settlement price.
Possible Values	a	Official – Explicit Official Daily Settlement Price, as distributed by the exchange.
	b	Preliminary – Settlement Price subject to change until the Official Daily Settlement Price is published.
	z	Manual – Settlement Price disseminated manually (in case of a correction).
	0	Undefined

2.2.10. PreviousSettlementPriceType

The values of the quotation tag `PreviousSettlementPriceType` conveyed on the ATHENS 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 (currently disseminated values are in **green**):

Table 17 **PreviousSettlementPriceType – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	<code>PreviousSettlementPriceType</code>	QuantFEED® tag name.
Numeric ID	9384	QuantFEED® unique ID disseminated on the 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 exchange specific value , indicating the type of the previous settlement price.
Possible Values	a	Official – Explicit Official Daily Settlement Price, as distributed by the exchange.
	b	Preliminary – Settlement Price subject to change until the Official Daily Settlement Price is published.
	z	Manual – Settlement Price disseminated manually (in case of a correction).
	0	Undefined

Quotation Data Sample

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

```
InstrumentStatusL1
-- 102/1551
  BID: 1 800 @1
  ASK: 0 0 *NO ORDER*
    LastPrice float64{4.2}
    LastTradeQty float64{5}
    DailyTotalVolumeTraded float64{0}
    DailyTotalAssetTraded float64{0}
    LastTradePrice float64{4.2}
    LastTradeTimestamp Timestamp{2014-11-11 13:28:26:660}
    InternalDailyOpenTimestamp Timestamp{2014-11-11 07:48:28:392}
    InternalDailyCloseTimestamp Timestamp{2014-11-11 13:36:03:077}
    InternalDailyHighTimestamp Timestamp{2014-11-11 14:59:51:463}
    InternalDailyLowTimestamp Timestamp{2014-11-11 14:59:51:463}
    InternalPriceActivityTimestamp Timestamp{2014-11-11 07:48:28:415}
    TradingStatus 17=ReadyToTrade
    PreviousDailyTotalVolumeTraded float64{0}
    PreviousDailyTotalAssetTraded float64{0}
    PreviousDailyClosingPrice float64{0.17}
    PreviousBusinessDay Timestamp{2014-11-10}
    CurrentBusinessDay Timestamp{2014-11-11}
    DailySettlementPrice float64{0.91}
    PreviousDailySettlementPrice float64{0.17}
    OpenInterest float64{8}
    InternalDailyClosingPriceType char{a}
    PriceActivityMarketTimestamp Timestamp{2014-11-11 07:48:24:450}
    SettlementPriceDate Timestamp{2014-11-11}
    OpenInterestDate Timestamp{2014-11-11}
    PreviousSettlementPriceDate Timestamp{2014-11-10}
    SettlementPriceType char{a}
    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
- Web: <http://support.quanthouse.com>.