

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

## **QuantFEED® Developer's Notice**

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### **CEF CORE – Feed Update**

Reference n°: 20141009 – 19027 – 23077

Effective as of: **24 November 2014**

Action required from users: **Attention Required**



S&P Capital IQ Real-Time Solutions (QuantHouse®) – QuantFEED®  
QuantFEED® Developer's Notice  
Reference 20141009 – 19027 – 23077  
October 30, 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](http://www.quanthouse.com)

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# UPDATE OF THE CEF CORE MARKET DATA STREAM

To reflect the changes caused by the dissemination of new values on the CEF CORE 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	20141009 – 19027 – 23077
Exchanges	CEF CORE
Concerned MICs	XEEE, EPEX, XDBV
Internal Source ID	23, 24, 25, 26, 27, 51, 87, 93, 94
Effective Date	2014-11-24*
Impact	<ul style="list-style-type: none"><li>• Update of the Referential Tags</li><li>• Update of the Quotation Tags</li></ul>
Action required	Attention Required

## 2. QuantFEED® Technical Implementation

Effective Monday, **November 24<sup>\*</sup>, 2014**, S&P Capital IQ Real-Time Solutions enhances the quotation data to accommodate the new information disseminated on the CEF CORE 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 disseminated on the CEF CORE market data stream:

**Table 2** Referential tags added on the CEF CORE market data stream

Tag Name	Numeric ID	Type	On Segment
SecurityGroup	1151	String	XETR, XFRA, XDUB
ProductComplex	1227	String	XEEE

### 2.1.1. SecurityGroup

The values of the referential tag **Security Group** conveyed on the CEF CORE market data stream are disseminated via QuantFEED® data stream in *Referential* to indicate an exchange specific name assigned to a group of related securities which may be concurrently affected by market events and actions.

QuantFEED® implementation of the tag securityGroup is described in the following table:

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

Component	Value	Description
Tag Name	SecurityGroup	QuantFEED® tag name.
Numeric ID	1151	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 <b>exchange specific percentile value</b> , indicating an exchange specific name assigned to a group of related securities which may be concurrently affected by market events and actions.

### 2.1.2. ProductComplex

The values of the referential tag **ProductComplex** conveyed on the CEF CORE market data stream are disseminated via QuantFEED® data stream in *Referential* to identify an entire suite of products for a given market.

QuantFEED® implementation of the tag ProductComplex is detailed in the table below:

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

Component	Value	Description
Tag Name	ProductComplex	QuantFEED® tag name.
Numeric ID	1227	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	<i>[Exchange Specific value]</i>	An <b>exchange specific value</b> , identifying an entire suite of products for a given market.

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

Component	Value	Description
<b>Possible Values</b>	1	Simple Instrument
	2	Standard Option Strategy
	3	Non-Standard Option Strategy
	4	Volatility Strategy
	5	Futures Spread
	6	Inter-Product Spread
	7	Standard Futures Strategy
	8	Pack and Bundle
	9	Strip

## Referential Data Sample

Below are several examples showing the current implementation of the newly added (in **green**) referential tags:

```
instr # 88/5387 = 184554763
  PriceCurrency      string{EUR}
  Symbol             string{O1BM}
  SecurityType       string{OPT}
  StdMaturity        string{201503}
  StrikePrice        float64{30}
  FOSMarketId        XEEE
  ContractMultiplier float64{1}
  CFICode            string{OPEXXX}
  SecurityStatus     uint8{1}
  ProductComplex     string{1}
  InternalCreationDate Timestamp{2014-09-25 22:16:04:845}
  InternalModificationDate Timestamp{2014-10-28 01:01:02:017}
  InternalSourceId   uint16{51}
  InternalEntitlementId EEX
  LocalCodestr       string{DE000A0AEQQ2.201503.P.30}
  ISIN               string{DE000A0AEQQ2}
  PriceIncrement_static float64{0.001}
  MaturityYear       uint16{2015}
  MaturityMonth      uint8{3}
  MaturityDay        uint8{24}
  OperatingMIC       string{XEEE}
```

```

instr # 92/362121 = 193300105
  PriceCurrency          string{EUR}
  Description             string{COMMERZBANK 08/18 VAR 666}
  SecurityType           string{NONE}
  FOSMarketId            XFRA
  CFICode                string{DBXXX}
  SecurityGroup           string{BD02}
  InternalCreationDate    Timestamp{2014-06-09 04:15:07:221}
  InternalModificationDate Timestamp{2014-10-28 10:13:12:942}
  InternalSourceId        uint16{51}
  InternalEntitlementId    DES
  LocalCodeStr            string{XS0368332200}
  ISIN                   string{XS0368332200}
  PriceIncrement_static   float64{0.001}
  WertpapierKennNumber     string{CB59FT}
  OperatingMIC            string{XFRA}
  MARKET_XETRA_SegmentCode string{None}

```

## 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 CORE market data stream:

**Table 5** Quotation tags added on the CEF CORE market data stream

Tag Name	Numeric ID	Type	On Segment
<a href="#">DailySettlementPrice</a>	9133	Float64	XDUB, XBUL, XETR, XFRA, XDBV
<a href="#">PreviousDailySettlementPrice</a>	9145	Float64	XDUB, XBUL, XETR, XFRA, XDBV
<a href="#">LastAuctionImbalanceSide</a>	9151	Char	XBUL, XDUB, XETR, XMAL, XEEE
<a href="#">LastAuctionImbalanceVolume</a>	9152	Float64	
<a href="#">InternalDailyClosingPriceType</a>	9155	Char	XBER, XBUL, XDUB, XDUS, XEEE, XETR, XEUR, XFRA, XHAM, XMAL, XMUN, XSTV, XDBV
<a href="#">PreviousInternalDailyClosingPriceType</a>	9156	Char	
<a href="#">SettlementPriceDate</a>	9380	Timestamp	XDUB, XBUL, XETR, XFRA, XDBV
<a href="#">SettlementPriceType</a>	9383	Char	XDUB, XBUL, XETR, XFRA, XDBV

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

**Table 6** Quotation tags disseminating updated values on the CEF CORE market data stream

Tag Name	Numeric ID	Type
<a href="#">MARKET_CEF_LastTradeTradingPhase</a>	14900	Char

### 2.2.1. DailySettlementPrice

The values of the quotation tag **DailySettlementPrice** conveyed on the CEF CORE 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 7** `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 <b>exchange specific value</b> , specifying the value of the daily settlement price.

### 2.2.2. PreviousDailySettlementPrice

The values of the quotation tag `PreviousDailySettlementPrice` conveyed on the CEF CORE 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 8** `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 <b>exchange specific value</b> , specifying the value of the previous daily settlement price.

### 2.2.3. LastAuctionImbalanceSide

The values of the quotation tag `LastAuctionImbalanceSide` conveyed on the CEF CORE market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the imbalance side of a closing auction:

- 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 `LastAuctionImbalanceSide` is described below:

**Table 9** `LastAuctionImbalanceSide` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>LastAuctionImbalanceSide</code>	QuantFEED® tag name.
Numeric ID	9151	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>[Exchange Specific Value]</i>	An <b>exchange specific value</b> , detailing the imbalance side of a closing auction.
Possible Values	B	Buy
	S	Sell

## 2.2.4. LastAuctionImbalanceVolume

The values of the quotation tag **Last Auction Imbalance Volume** conveyed on the CEF CORE market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the imbalance volume of a closing auction:

- 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 available for the tag `LastAuctionImbalanceVolume` is described below:

**Table 10** `LastAuctionImbalanceVolume` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>LastAuctionImbalanceVolume</code>	QuantFEED® tag name.
Numeric ID	9152	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 imbalance volume of a closing auction.

## 2.2.5. InternalDailyClosingPriceType

The values of the quotation tag **InternalDailyClosingPriceType** conveyed on the CEF CORE 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 (the values disseminated as of 2014-11-24 are highlighted 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 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 <i>internal specific value</i> , detailing the type of daily closing price, as described below.
Possible Values	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>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.
	d	<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).

## 2.2.6. PreviousInternalDailyClosingPriceType

The values of the quotation tag `PreviousInternalDailyClosingPriceType` conveyed on the CEF CORE 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 `PreviousInternalDailyClosingPriceType` is described in the table below (the values disseminated as of 2014-11-24 are highlighted in **green**):

**Table 12** `InternalDailyClosingPriceType` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>PreviousInternalDailyClosingPriceType</code>	QuantFEED® tag name.
Numeric ID	9156	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 <b>internal specific value</b> , detailing the type of daily closing price, as described below.
Possible Values	0	<b>Undefined</b>
	<b>a</b>	<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).

### 2.2.7. SettlementPriceDate

The values of the quotation tag `SettlementPriceDate` conveyed on the CEF CORE 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 <b>exchange specific value</b> , indicating the date of the settlement price.

## 2.2.8. SettlementPriceType

The values of the quotation tag **SettlementPriceType** conveyed on the CEF CORE 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 (the values disseminated as of 2014-11-24 are highlighted in green):

**Table 14 SettlementPriceType – technical implementation in QuantFEED®**

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

## 2.2.9. MARKET\_CEF\_LastTradeTradingPhase

The values of the quotation tag **MARKET\_CEF\_LastTradeTradingPhase** conveyed on the CEF CORE market data stream are disseminated via QuantFEED® data stream in *Other Values* to indicate the specific trading phase of the last traded instrument:

- 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 **MARKET\_CEF\_LastTradeTradingPhase** is described in the table below:

**Table 15 MARKET\_CEF\_LastTradeTradingPhase – technical implementation in QuantFEED®**

Component	Value	Description
Tag Name	MARKET_CEF_LastTradeTradingPhase	QuantFEED® tag name.
Numeric ID	14900	QuantFEED® unique ID broadcast on the S&P Capital IQ Real-Time Solutions data stream. It is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange specific value]</i>	An <b>exchange specific value</b> , detailing the specific trading phase of the last traded instrument.

**Table 15** MARKET\_CEF\_LastTradeTradingPhase – technical implementation in QuantFEED® (Continued)

Component	Value	Description
Possible Values	A	Auction / Intraday IPO Auction / Continuous Auction / Midpoint Crossing
	B	Trade with Bundesbank participation
	C	Continuous Trading
	E	End-of-Day Auction
	F	Closing Auction / Vwap Crossing
	L	Liquidity Interruption
	M	Mini Auction
	O	Opening Auction / Opening IPO Auction
	S	Special Auction
	U	Price from Subscription period
	V	Volatility Interruption in Continuous Trading

## Quotation Data Sample

Below are several examples showing the current implementation of the updated (in blue) quotation tags:

```
InstrumentStatusL1
-- 89/27508
    BID: 0 0      *NO ORDER*
    ASK: 0 0      *NO ORDER*
    LastPrice      float64{374.06}
    DailyHighPrice float64{375.12}
    DailyLowPrice  float64{372.07}
    InternalDailyOpenTimestamp Timestamp{2014-10-28 08:00:15:626}
    InternalDailyCloseTimestamp Timestamp{2014-10-27 16:30:15:538}
    InternalDailyHighTimestamp Timestamp{2014-10-28 12:08:15:612}
    InternalDailyLowTimestamp Timestamp{2014-10-28 08:00:15:626}
    InternalPriceActivityTimestamp Timestamp{2014-10-28 14:31:45:588}
    TradingStatus  17=ReadyToTrade
    DailyOpeningPrice float64{372.07}
    DailySettlementPrice float64{374.38}
    PreviousDailyClosingPrice float64{371.46}
    PreviousBusinessDay Timestamp{2014-10-27}
    CurrentBusinessDay Timestamp{2014-10-28}
    InternalDailyClosingPriceType char{a}
    PriceActivityMarketTimestamp Timestamp{2014-10-28 14:31:45}
    SettlementPriceDate Timestamp{2014-10-28}
    SettlementPriceType char{a}
```

```

InstrumentStatusL1
-- 89/407556
    BID: 21.93      20000
    ASK: 22.06      20000
    LastPrice      float64{22.47}
    InternalDailyOpenTimestamp    Timestamp{2014-10-28 08:04:07:039}
    InternalDailyCloseTimestamp   Timestamp{2014-10-27 16:36:05:022}
    InternalDailyHighTimestamp    Timestamp{2014-10-27 16:36:05:066}
    InternalDailyLowTimestamp     Timestamp{2014-10-27 16:36:05:066}
    InternalPriceActivityTimestamp Timestamp{2014-10-28 14:30:04:985}
    TradingStatus    17=ReadyToTrade
    PreviousDailyClosingPrice float64{22.47}
    PreviousBusinessDay    Timestamp{2014-10-27}
    CurrentBusinessDay     Timestamp{2014-10-28}
    LastAuctionPrice       float64{22.47}
    LastAuctionImbalanceSide char{S}
    LastAuctionImbalanceVolume float64{19970}
    InternalDailyClosingPriceType char{a}
    InternalLastAuctionTimestamp Timestamp{2014-10-27 17:30:01:638}
    PriceActivityMarketTimestamp Timestamp{2014-10-28 14:30:04:920}
    MARKET_XETRA_ULTRA_PLUS_InstrumentStatus float64{26}

```

--//--

```

InstrumentStatusL1
-- 97/16448
    BID: 0 0      *NO ORDER*
    ASK: 0 0      *NO ORDER*
    LastPrice      float64{101.35}
    DailyHighPrice float64{101.35}
    DailyLowPrice  float64{101.35}
    InternalDailyOpenTimestamp    Timestamp{2014-10-28 06:03:35:636}
    InternalDailyCloseTimestamp   Timestamp{2014-10-27 19:01:13:280}
    InternalDailyHighTimestamp    Timestamp{2014-10-28 10:39:49:579}
    InternalDailyLowTimestamp     Timestamp{2014-10-28 10:39:49:579}
    InternalPriceActivityTimestamp Timestamp{2014-10-28 10:39:49:579}
    TradingStatus    5=PriceIndication
    PreviousDailyClosingPrice float64{101.35}
    PreviousBusinessDay    Timestamp{2014-10-27}
    CurrentBusinessDay     Timestamp{2014-10-28}
    InternalDailyClosingPriceType char{a}
    PriceActivityMarketTimestamp Timestamp{2014-10-28 10:39:49}
    MARKET_CEF_LastTradeTradingPhase char{L}

```

### 3. Finding the Latest Information

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