S&P Capital IQ Real-Time Solutions

FeedOS™ Developer's Notice

LIFFE XDP – Feed Update

Reference n°: 20150114 – 14403 – 16439

Effective as of: 09 March 2015*

Action required from users: MANDATORY ACTION

S&P CAPITAL IQ
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* 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: LIFFE XDP – Feed Update
Reference 20150114 – 14403 – 16439
February 17, 2015

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UPDATE OF THE LIFFE XDP MARKET DATA STREAM

To reflect the changes caused by the dissemination of new values on the LIFFE XDP 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	20150114 – 14403 – 16439
Exchanges	LIFFE XDP
Concerned MICs	XMAT, XMON, XEUI, XEUC, XEUE, XLIF, XBRD, MFOX
Internal Source ID	162, 163, 172, 174, 175, 177, 178
Effective Date	**2015-03-09***
Impact	• Update of the Referential Tags • Update of the Quotation Tags • Update of the Quotation Context Tags
Action required	**MANDATORY ACTION** - see sections: • 2.1.3. FOSMarketId.

2. FeedOS Technical Implementation

Effective Monday, **March 09*** **2015,** S&P Capital IQ Real-Time Solutions enhances the referential, quotation and quotation context data to accommodate the new information disseminated on the LIFFE XDP market data stream, as described below:

- 2.1. Changes to the Referential Data
- 2.2. Changes to the Quotation Data
- 2.3. Changes to the Quotation Context Data.

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 LIFFE XDP market data stream:

Table 2 Referential tags added on the LIFFE XDP market data stream

Tag Name	Numeric ID	Type
`OperatingMIC`	9533	String
`SegmentMIC`	9534	String

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

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

Tag Name	Numeric ID	Type
`FOSMarketId`	207	UInt16
`InternalModificationDate`	9401	Timestamp
`UnderlyingFOSMarketId`	9509	UInt16
`UnderlyingLocalCodeStr`	9510	String

2.1.1. OperatingMIC

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

* 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 `OperatingMIC` is described in the table below:

Table 4 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	*`[Exchange Specific Value]`*	An ***exchange specific value***, specifying the parent MIC.
Possible Values	`XAMS`	NYSE Euronext Amsterdam
	`XBRU`	NYSE Euronext Brussels
	`XLDN`	NYSE Euronext London
	`XLIS`	NYSE Euronext Lisbon
	`XPAR`	NYSE Euronext Paris

2.1.2. SegmentMIC

The values of the referential tag **SegmentMIC** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Referential* to specify the child MIC.

FeedOS implementation of the tag `SegmentMIC` is described in the table below:

Table 5 SegmentMIC – technical implementation in FeedOS

Component	Value	Description
Tag Name	`SegmentMIC`	FeedOS tag name.
Numeric ID	`9534`	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	*`[Exchange Specific Value]`*	An ***exchange specific value***, specifying the child MIC.
Possible Values	`MFOX`	NYSE Euronext - Mercado de Futuros e Opções
	`XBRD`	NYSE Euronext - Euronext Brussels - Derivatives
	`XEUE`	Euronext EQF, Equities and Indices Derivatives
	`XEUI`	Euronext IRF, Interest Rate Future and Options
	`XLIF`	NYSE Euronext LIFFE
	`XMAT`	Euronext Paris MATIF
	`XMON`	Euronext Paris MONEP

2.1.3. FOSMarketId

The values of the referential tag **FOSMarketId** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Referential* to identify a security.

FeedOS implementation of the tag `FOSMarketId` is described in the table below (existing values are in `black`, newly added values are in `green`):

Table 6 FOSMarketId – technical implementation in FeedOS

Component	Value	Description
Tag Name	`FOSMarketId`	FeedOS tag name.
Numeric ID	`207`	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	`UInt16`	UInt16 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	An ***exchange specific value***, specifying the market used to help identify a security.

2.1.4. InternalModificationDate

The values of the referential tag **InternalModificationDate** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Referential* to specify the date when the referential data of an instrument has changed internally.

FeedOS implementation of the values available for the tag `InternalModificationDate` is described below:

Table 7 InternalModificationDate – technical implementation in FeedOS

Component	Value	Description
Tag Name	`InternalModificationDate`	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	*`[Internal Specific Value]`*	An ***internal specific value***, detailing the date when the referential data of an instrument has changed internally. **NOTE:** After 2015-03-09, the update mechanism of the tag `InternalModificationDate` changes. Thus, the timestamp will no longer be updated on a daily basis, unless there is a significant change in the referential data of the instrument.

2.1.5. UnderlyingFOSMarketId

The values of the referential tag **UnderlyingFOSMarketId** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Referential* to specify the market identifier.

FeedOS implementation of the tag `UnderlyingFOSMarketId` is described in the table below:

Table 8 UnderlyingFOSMarketId – technical implementation in FeedOS

Component	Value	Description
Tag Name	`UnderlyingFOSMarketId`	FeedOS tag name.
Numeric ID	9509	FeedOS unique ID disseminated on S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Type	`UInt16`	UInt16 data type.
Format / Possible Values	*[Internal Specific Value]*	An ***internal specific value***, specifying the market identifier.

2.1.6. UnderlyingLocalCodeStr

The values of the referential tag **Underlying Local Code String** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Referential* to specify the ISIN of the underlying instrument.

FeedOS implementation of the values currently available for the tag `UnderlyingLocalCodeStr` is described in the table below:

Table 9 UnderlyingLocalCodeStr – technical implementation in FeedOS

Component	Value	Description
Tag Name	`UnderlyingLocalCodeStr`	FeedOS tag name.
Numeric ID	9510	FeedOS 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 / Possible Values	*[Exchange Specific Value]*	An ***exchange specific value***, specifying the ISIN of the underlying instrument.

Referential Data Sample

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

```
instr # 80/459662 = 168231822
    PriceCurrency               string{EUR}
    Symbol                      string{MFC}
    Description                 string{Future 2015-05 on CAC 40 Index - Mini Future}
    SecurityType                string{FUT}
    StdMaturity                 string{201505}
    FOSMarketId                 XMON
    Factor                      float64{0.5}
    ContractMultiplier          float64{1}
    CFICode                     string{FFXPSX}
    DatedDate                   Timestamp{2014-10-20}
    InternalCreationDate        Timestamp{2014-12-24 13:28:15:200}
    InternalModificationDate    Timestamp{2015-05-05 06:00:10:394}
    InternalSourceId            uint16{52}
    InternalEntitlementId       int32{1072}
    LocalCodeStr                string{JFMFC150100000F}
    PriceIncrement_static       float64{0.5}
    UnderlyingFOSMarketId       XMON
    UnderlyingLocalCodeStr      string{FR0003500008}
    MaturityYear                uint16{2015}
    MaturityMonth               uint8{5}
    MaturityDay                 uint8{15}
    OperatingMIC                string{XPAR}
    SegmentMIC                  string{XMON}
    MARKET_LIFFE_XDP_InstrumentDenominator      uint32{10}
```

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 LIFFE XDP market data stream:

Table 10   Quotation tags added on the LIFFE XDP market data stream

Tag Name	Numeric ID	Type
OpenInterest	9150	Float64
SettlementPriceDate	9380	Timestamp
OpenInterestDate	9382	Timestamp
SettlementPriceType	9383	Char
MARKET_LIFFE_MarketStatuses	14651	UInt32

S&P Capital IQ Real-Time Solutions also **removes** the quotation tags below:

Table 11   Quotation tags no longer disseminated on the LIFFE XDP market data stream

Tag Name	Numeric ID	Type
MARKET_LIFFE_MarketMode	14650	String

2.2.1. OpenInterest

The values of the quotation tag **OpenInterest** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS 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.

FeedOS implementation of the tag `OpenInterest` is described in the table below:

Table 12 OpenInterest – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`OpenInterest`	FeedOS tag name.
Numeric ID	`9150`	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	`Float64`	Float64 data type.
Format / Possible Values	*`[Exchange Specific Value]`*	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.

2.2.2. SettlementPriceDate

The values of the quotation tag **SettlementPriceDate** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS 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.

FeedOS implementation of the tag `SettlementPriceDate` is described in the table below:

Table 13 SettlementPriceDate – technical implementation in FeedOS

Component	Value	Description
Tag Name	`SettlementPriceDate`	FeedOS tag name.
Numeric ID	`9380`	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	*`[Exchange Specific Value]`*	An ***exchange specific value***, indicating the date of the settlement price.

2.2.3. OpenInterestDate

The values of the quotation tag **OpenInterestDate** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS 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.

FeedOS implementation of tag `OpenInterestDate` is described below:

Table 14 OpenInterestDate – technical implementation in FeedOS

Component	Value	Description
Tag Name	`OpenInterestDate`	FeedOS tag name.
Numeric ID	`9382`	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	*`[Exchange Specific Value]`*	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.

2.2.4. SettlementPriceType

The values of the quotation tag **SettlementPriceType** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS 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.

FeedOS implementation of the tag `SettlementPriceType` is described in the following table (the values disseminated as of 2015-03-09 are highlighted in `green`):

Table 15 SettlementPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`SettlementPriceType`	FeedOS tag name.
Numeric ID	`9383`	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	`Char`	Timestamp data type.
Format	*`[Exchange Specific Value]`*	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**

2.2.5. MARKET_LIFFE_MarketStatuses

The values of the quotation tag **MARKET_LIFFE_MarketStatuses** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Other Values* to indicate :

- 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.

`MARKET_LIFFE_MarketStatuses` simultaneously accepts multiple values, as shown in the example below:

```
        MARKET_LIFFE_MarketStatuses     uint32{8918088}

where the value 8918088 translates as:

• 881448 in Hex and
• 100010000001010001001000 in Bin

=> 3 - Open, 6 - Price Limits Enabled, 10 - Session 2, 12 - Quote Width Exemption 1, 19 - Un-
Terminate, 23 - Unhold
```

FeedOS implementation of the tag `MARKET_LIFFE_MarketStatuses` is described in the table below:

Table 16 MARKET_LIFFE_MarketStatuses – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	`MARKET_LIFFE_MarketStatuses`	FeedOS tag name.
Numeric ID	`14651`	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	`UInt32`	UInt32 data type.
Format	*`[Exchange Specific Value]`*	An ***internal specific value***, detailing the status of the exchange. It simultaneously accepts multiple-bit values.
Possible Values	0	Closed
	1	ExPit Extend Open
	2	Halted
	3	Open
	4	Pre Closed
	5	Pre Open
	6	Price Limits Enabled
	7	Price Limits Disabled
	8	Restricted Open
	9	Session 1
	10	Session 2
	11	Session 3
	12	Quote Width Exemption 1
	13	Quote Width Exemption 2
	14	Quote Width Exemption 3
	15	Dark Series
	16	Light Series

Table 16 MARKET_LIFFE_MarketStatuses – technical implementation in QuantFEED® (Continued)

Component	Value	Description
Possible Values	17	Trading Unhalt
	18	Terminate
	19	Un-Terminate
	20	Expire
	21	Pre-Expiry
	22	Hold
	23	Unhold

Quotation Data Sample

Below is an example showing the current implementation of the newly added (in `green`), updated (in `blue`) and removed (in ~~`crossed out red`~~) quotation tags:

```
InstrumentStatusL1
-- 80/459662
        BID: 4112       110
        ASK: 4126.5     20
        LastPrice                       float64{4116.5}
        LastTradeQty                    float64{1}
        DailyHighPrice                  float64{4273.5}
        DailyLowPrice                   float64{4110}
        DailyTotalVolumeTraded          float64{51}
        DailyTotalAssetTraded           float64{213286.5}
        LastTradePrice                  float64{4116.5}
        LastTradeTimestamp              Timestamp{2015-01-05 16:41:45:434}
        InternalDailyOpenTimestamp      Timestamp{2015-01-05 07:00:00:004}
        InternalDailyCloseTimestamp     Timestamp{2015-01-02 21:00:00:004}
        InternalDailyHighTimestamp      Timestamp{2015-01-05 08:48:39:497}
        InternalDailyLowTimestamp       Timestamp{2015-01-05 16:28:56:453}
        InternalPriceActivityTimestamp  Timestamp{2015-01-05 17:05:12:297}
        TradingStatus                   17=ReadyToTrade
        DailyOpeningPrice               float64{4220.5}
        DailySettlementPrice            float64{4111.5}
        PreviousDailyTotalVolumeTraded  float64{5}
        PreviousDailyTotalAssetTraded   float64{21281.5}
        PreviousDailyClosingPrice       float64{4255}
        PreviousBusinessDay             Timestamp{2015-01-02}
        CurrentBusinessDay              Timestamp{2015-01-05}
        PreviousDailySettlementPrice    float64{4251.5}
        OpenInterest                    float64{19}
        PriceActivityMarketTimestamp    Timestamp{2015-01-05 17:05:12:294}
        SettlementPriceDate             Timestamp{2015-01-05 16:52:34:876}
        PreviousSettlementPriceDate     Timestamp{2015-01-01}
        OpenInterestDate                Timestamp{1970-08-22}
        MARKET_LIFFE_MarketMode         string{32 10 7 23 42 14}
        SettlementPriceType             char{b}
        PreviousSettlementPriceType     char{a}
        MARKET_LIFFE_MarketStatuses     uint32{8918088}
```

2.3. Changes to the Quotation Context Data

S&P Capital IQ Real-Time Solutions **updates** the quotation context tags below to accommodate the information disseminated on the LIFFE XDP market data stream:

Table 17 Quotation context tags disseminating updated values on the LIFFE XDP market data stream

Tag Name	Numeric ID	Type
MARKET_LIFFE_XDP_TradeTypeIndicator	15201	String

2.3.1. MARKET_LIFFE_XDP_TradeTypeIndicator

Each time a trade occurs, the values of the quotation context tag **MARKET_LIFFE_XDP_TradeTypeIndicator** conveyed on the LIFFE XDP market data stream are disseminated via FeedOS data stream in *Context* to describes the type of trade:

- 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 `MARKET_LIFFE_XDP_TradeTypeIndicator` is described in the table below (existing values are in `black`, removed values are in ~~`crossed out red`~~):

Table 18 MARKET_LIFFE_XDP_TradeTypeIndicator – technical implementation in FeedOS

Component	Value	Description
Tag Name	`MARKET_LIFFE_XDP_TradeTypeIndicator`	FeedOS tag name.
Numeric ID	`15201`	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	*`[Exchange Specific Value]`*	An ***internal specific value***, detailing the status of the exchange. It simultaneously accepts multiple-bit values.
Possible Values	1	Best Bid
	2	Best Offer
	3	Bid
	4	Offer
	5	Total Traded Volume
	6	Conventional Trade (default value, not sent)
	7	Block Trade
	8	Basis Trade
	9	Prof Trade
	10	Guaranteed Cross Trade
	11	Against Actual Trade
	12	Asset Allocation Trade
	13	External Match Trade
	14	Exchange For Swap Trade
	15	Exchange For Physical Trade
	29	Strategy Leg Conventional Trade

Table 18 MARKET_LIFFE_XDP_TradeTypeIndicator – technical implementation in FeedOS (Continued)

Component	Value	Description
Possible Values	30	Strategy Leg Block Trade
	31	Strategy Leg Basis Trade
	33	Strategy Leg Guaranteed Cross Trade
	34	Strategy Leg Against Actual Trade
	35	Strategy Leg Asset Allocation Trade
	36	Strategy Leg External Match Trade
	37	Strategy Leg Exchange For Swap Trade
	38	Strategy Leg Exchange For Physical Trade
	~~40~~	Request for Quote

Quotation Context Data Sample

Below is an example showing the current implementation of the updated (in `blue`) quotation tags:

```
BEFORE 2015-03-09
TE    08:00:32:151 941695889   *      *      *       *       0.6     5
SI    08:01:00:004 941695889   OPEN   *
TE    08:01:00:004 941695889   *      *      *       *       *       *       O
VU    08:01:00:004 941695889   MARKET_LIFFE_MarketStatuses=8918090     TradingStatus=17
TE    08:03:02:442 941695889   *      *      *       *       0.2     10
TE    11:11:45:684 941695889   0      *      *       *       *       *
MARKET_LIFFE_XDP_TradeTypeIndicator=40
TE    11:11:50:696 941695889   *      *      0.02    15      0.16    15
TE    11:11:50:737 941695889   *      *      0.02    25      0.15    10
TE    11:11:50:962 941695889   *      *      *       *       0.14    15
TE    11:12:07:716 941695889   *      *      0.04    10      *       *
TE    11:12:07:716 941695889   *      *      0.05    15      *       *
TE    11:12:07:749 941695889   *      *      *       *       0.14    25


AFTER 2015-03-09
TE    08:00:32:151 941695889   *      *      *       *       0.6     5
SI    08:01:00:004 941695889   OPEN   *
TE    08:01:00:004 941695889   *      *      *       *       *       *       O
VU    08:01:00:004 941695889   MARKET_LIFFE_MarketStatuses=8918090     TradingStatus=17
TE    08:03:02:442 941695889   *      *      *       *       0.2     10
TE    11:11:50:696 941695889   *      *      0.02    15      0.16    15
TE    11:11:50:737 941695889   *      *      0.02    25      0.15    10
TE    11:11:50:962 941695889   *      *      *       *       0.14    15
TE    11:12:07:716 941695889   *      *      0.04    10      *       *
TE    11:12:07:716 941695889   *      *      0.05    15      *       *
TE    11:12:07:749 941695889   *      *      *       *       0.14    25
```

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.