

FeedOS™ Developer's Notice

LIFFE XDP – Feed Update

Reference n°: 20150219 – 14403 – 25443 (UPDATE 01 TO 20150114 – 14403 – 16439)

Effective as of: 09 March 2015*

Action required from users: Attention Required



* 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 20150219 – 14403 – 25443
February 19, 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	20150219 – 14403 – 25443 ⁱ (UPDATE 01 TO 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	<ul style="list-style-type: none">• Update of the Referential Tags• Update of the Quotation Tags• Update of the Quotation Context Tags
Action required	Attention Required

i. The red bars in the left margin highlight content that has been added or changed since the previous release of this document.

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
InternalModificationDate	9401	Timestamp

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.

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

Table 4 OperatingMIC – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>OperatingMIC</code>	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 <i>exchange specific value</i> , specifying 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.

Table 4 OperatingMIC – technical implementation in FeedOS (Continued)

Component	Value	Description
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	<i>[Exchange Specific Value]</i>	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. 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 6 `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 date when the referential data of an instrument has changed internally. NOTE: After 2015-03-09, the update mechanism of the tag <code>InternalModificationDate</code> 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.

Referential Data Sample

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

```
instr # 449/154958 = 941776206
  PriceCurrency      string{EUR}
  Symbol             string{BXF}
  Description         string{Future 2015-06 on BEL 20 INDEX FUTURE}
  SecurityType       string{FUT}
  StdMaturity        string{201506}
  FOSMarketId        XBRD
  Factor             float64{5}
  ContractMultiplier float64{10}
  CFICode            string{FFXPSX}
  DatedDate          Timestamp{2014-12-22}
  InternalCreationDate Timestamp{2014-12-22 02:45:24:165}
  InternalModificationDate Timestamp{2015-03-09 03:16:54:152}
  InternalSourceId    uint16{178}
  InternalAggregationId uint16{177}
  InternalEntitlementId int32{1072}
  LocalCodeStr        string{FFBXF150600000F}
  PriceIncrement_static float64{0.5}
  UnderlyingFOSMarketId XBRU
  UnderlyingLocalCodeStr string{BE0389555039}
  MaturityYear         uint16{2015}
  MaturityMonth        uint8{6}
  MaturityDay          uint8{19}
  OperatingMIC          string{XBRU}
  SegmentMIC           string{XBRD}
  MARKET_LIFFE_XDP_InstrumentDenominator uint32{100}
```

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 7 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 8 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 9 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	<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.

2.2.2. 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 10 SettlementPriceDate – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>SettlementPriceDate</code>	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	<i>[Exchange specific value]</i>	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 11 OpenInterestDate – technical implementation in FeedOS

Component	Value	Description
Tag Name	<code>OpenInterestDate</code>	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	<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.

2.2.4. 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 12 SettlementPriceType – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>SettlementPriceType</code>	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	<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

2.2.5. 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:

<pre>MARKET_LIFFE_MarketStatuses uint32{8918088}</pre> <p>where the value 8918088 translates as:</p> <ul style="list-style-type: none"> • 881448 in Hex and • 100010000001010001001000 in Bin <p>=> 3 - Open, 6 - Price Limits Enabled, 10 - Session 2, 12 - Quote Width Exemption 1, 19 - Un-Terminate, 23 - Unhold</p>
--

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

Table 13 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	<i>[Exchange specific value]</i>	An <i>internal specific value</i> , 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
	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 14 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 15 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	<i>[Exchange Specific value]</i>	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
	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	*	*	*	*	*	*	0
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	*	*	*	*	*	*	0
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.quanhouse.com>.