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

# **QuantFEED® Developer's Notice**

## **LIFFE Migration to ICE LIFFE**

Reference n°: 20141010 – 21906 – 23203 (UPDATE 04 TO 20141001 – 21906 – 23021)

Effective as of: 13 October 2014\*

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 (QuantHouse\*) – QuantFEED\* QuantFEED\* Developer's Notice Reference 20141010 – 21906 – 23203 October 10, 2014

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To reflect the changes caused by the progressive migration of the LIFFE market data stream to the ICE LIFFE 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 changes in your applications, which may not be included otherwise in the published documentation or in the previous versions of this document. 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	20141010 – 21906 – 23203 <sup>i</sup> (UPDATE 04 TO 20141001 – 21906 – 23021)	
Exchanges	LIFFE	
Concerned MICs	XLIF	
Internal Source ID	163, 172, 177, 178	
Effective Date	2014-10-13 <sup>*</sup>	
Impact	<ul><li> Update of the Referential Tags</li><li> Update of the Quotation Tags</li><li> Update of the MBL Book Depth</li></ul>	
Action required	MANDATORY ACTION – see sections 2.1.16. CFICode.	

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

# 2. QuantFEED® Technical Implementation

Effective Monday, **October 13**\* **2014**, S&P Capital IQ Real-Time Solutions enhances the referential and quotation data, and changes the MBL Book Depth to accommodate the new information disseminated on the ICE LIFFE 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 MBL Book Depth.

# 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 ICE LIFFE market data stream:

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

Tag Name	Numeric ID	Туре
PriceCurrency	15	String
MinTradeVol	562	Flot64
ProductComplex	1227	String
UnderlyingFOSInstrumentCode	9511	UInt32
OperatingMIC	9533	String
SegmentMIC	9534	String
MARKET_ICE_ContractSymbol	11600	String
MARKET_ICE_OffExchangeIncrementQty	11601	Float64
MARKET_ICE_OffExchangeIncrementPrice	11602	Float64
MARKET_ICE_SerialUnderlyingLocalCodeStr	11603	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 ICE LIFFE market data stream

Tag Name	Numeric ID	Туре
Description	107	String
SecurityType	167	String
StdMaturity	200	String
Factor	228	Float64
ContractMultiplier	231	Float64
CFICode	461	String
SecuritySubType	762	String
UnderlyingFOSMarketId	9509	UInt16
UnderlyingLocalCodeStr	9510	String

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<sup>\*</sup> 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 also **removes** the referential tags below:

Table 4 Referential tags no longer disseminated on the ICE LIFFE market data stream

Tag Name	Numeric ID	Туре
MARKET_LIFFE_XDP_StrikePriceDenominator	11700	UInt32
MARKET_LIFFE_XDP_StrikePriceDecimalLocator	11701	UInt16
MARKET_LIFFE_XDP_InstrumentDenominator	11702	UInt32

## 2.1.1. PriceCurrency

The values of the referential tag **PriceCurrency** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the currency of the price.

QuantFEED\* implementation of the tag PriceCurrency is described in the table below:

Table 5 PriceCurrency – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	PriceCurrency	QuantFEED® tag name.
Numeric ID	15	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String	String data type.
Format	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the currency of the price.
	CAD	Canadian Dollar
	CHF	Swiss Franc
	CZK	Czech Koruna
	DKK	Danish Krone
	EUR	Euro
	GBP	British Pound
Possible Values	HUF	Hungarian Forint
Possible values	NOK	Norwegian Krone
	PLN	Polish Zloty
	SEK	Swedish Krona
	TRY	Turkish Lira
	USD	United States Dollar
	USX	United States Cent
	ZAR	South African Rand

#### 2.1.2. MinTradeVol

The values of the referential tag **MinTradeVol** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the minimum traded volume.

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

Table 6 MinTradeVol – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MinTradeVol	QuantFEED® tag name.
Numeric ID	562	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	Float64	String data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the minimum traded volume.

#### 2.1.3. ProductComplex

The values of the referential tag **ProductComplex** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to detail the type of product.

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

Table 7 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.
Туре	String	String data type.

Table 7 ProductComplex – technical implementation in QuantFEED® (Continued)

Component	Value		Description
	Future	[Symbol+Maturity+"F"]	Symbol – 6 bytes, security symbol Maturity – YYYYMMDD "F" – 1 byte  Example: AFR 20171229F
	Future Spread	[Side+Ratio+Symbol+Maturity+Type]	Side - 1 byte, buy (+), sell (-) Ratio - 2 bytes Symbol - 6 bytes Maturity - YYYYMMDD Type - 1 byte  The format applies for each leg. Example: +01H 20140926F -01H 20141229F
Format	Option	[Symbol+Maturity+Type+Strike]	Symbol - 6 bytes Maturity - YYYYMMDD Type - 1 byte, Call (C), Put (P) Strike - 8 bytes  Example: ESX 141219C06500000
	Future MLEG	[Side+Ratio+Symbol+Maturity+Type]	Side - 1 byte, buy (+), sell (-) Ratio - 2 bytes Symbol - 6 bytes Maturity - YYYYMMDD Type - 1 byte  The format applies for each leg. Example: +01I 20140915F -02I 20141013F +01I 20141117F
	Option MLEG	[Side+Ratio+Leg's Product Complex]	Side – 1 byte, buy (+), sell (-) Ratio – 2 bytes Leg's Product Complex – 21 bytes  The format applies for each leg. Example: +01VOD 140919C00203000 +01VOD 140919P00203000
Possible Values	[Exchai	nge Specific Value]	An <b>exchange specific value</b> , detailing the type of product.

## 2.1.4. UnderlyingFOSInstrumentCode

The values of the referential tag **UnderlyingFOSInstrumentCode** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to detail the ISIN of the underlying instrument.

QuantFEED\* implementation of the tag UnderlyingFOSInstrumentCode is detailed in the table below:

Table 8 UnderlyingFOSInstrumentCode – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	UnderlyingFOSInstrumentCode	QuantFEED® tag name.
Numeric ID	9511	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	UInt32	UInt32 data type.
Format / Possible Values	[Internal Specific Value]	An <i>internal specific value</i> , detailing the ISIN of the underlying instrument.

#### 2.1.5. OperatingMIC

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

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

Table 9 OperatingMIC – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	OperatingMIC	QuantFEED® tag name.
Numeric ID	9533	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String	String data type.
Format	[Exchange Specific Value]	An exchange specific value, specifying the parent MIC.
	IFCA	ICE Futures Canada
Possible Values	IFEU	ICE Futures Europe
	IFUS	ICE Futures US

# 2.1.6. SegmentMIC

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

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

Table 10 SegmentMIC – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SegmentMIC	QuantFEED® tag name.
Numeric ID	9534	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String	String data type.
Format	[Exchange Specific Value]	An exchange specific value, specifying the child MIC.
	IFLL	ICE Futures Europe - Financial Products Division
Possible Values	IFLO	ICE Futures Europe - Equity Products Division
	IFLX	ICE Futures Europe - Agricultural Products Division

### 2.1.7. MARKET\_ICE\_ContractSymbol

The values of the referential tag **MARKET\_ICE\_ContractSymbol** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the symbol of the contract.

QuantFEED\* implementation of the tag MARKET\_ICE\_ContractSymbol is detailed in the table below:

Table 11 MARKET\_ICE\_ContractSymbol – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_ICE_ContractSymbol	QuantFEED® tag name.
Numeric ID	11600	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String	String data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the symbol of the contract.

#### 2.1.8. MARKET\_ICE\_OffExchangeIncrementQty

The values of the referential tag **MARKET\_ICE\_OffExchangeIncrementQty** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the increment quantity of the OTC.

QuantFEED\* implementation of the tag MARKET\_ICE\_OffExchangeIncrementQty is detailed in the table below:

Table 12 MARKET\_ICE\_OffExchangeIncrementQty – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	MARKET_ICE_OffExchangeIncrementQty	QuantFEED® tag name.	
Numeric ID	11601	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	Float64	Float64 data type.	
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the increment quantity of the OTC.	

## 2.1.9. MARKET\_ICE\_OffExchangeIncrementPrice

The values of the referential tag **MARKET\_ICE\_OffExchangeIncrementPrice** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the tick size of the OTC.

QuantFEED\* implementation of the tag MARKET\_ICE\_offExchangeIncrementPrice is detailed in the table below:

Table 13 MARKET\_ICE\_OffExchangeIncrementPrice – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	MARKET_ICE_OffExchangeIncrementPrice	QuantFEED® tag name.	
Numeric ID	11602	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	Float64	Float64 data type.	
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the ti size of the OTC.	

### 2.1.10. MARKET\_ICE\_SerialUnderlyingLocalCodeStr

The values of the referential tag MARKET\_ICE\_SerialUnderlyingLocalCodeStr conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the LocalCodeStr of the underlying instrument with different maturity.

QuantFEED\* implementation of the tag MARKET\_ICE\_OffExchangeIncrementPrice is detailed in the table below:

Table 14 MARKET\_ICE\_OffExchangeIncrementPrice – technical implementation in QuantFEED®

Component	Value Description		
Tag Name	MARKET_ICE_SerialUnderlyingLocalCodeStr	QuantFEED® tag name.	
Numeric ID	11603	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	Float64	Float64 data type.	
Format / Possible Values	[Exchange Specific Value]	An exchange specific value, specifying the LocalCodeStr of the underlying instrument with different maturity.	

## 2.1.11. Description

The values of the referential tag **Description** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to characterize an instrument.

QuantFEED\* implementation of the tag Description is detailed in the table below:

Table 15 Description – technical implementation in QuantFEED®

Component	Value		Description
Tag Name	Description		QuantFEED® tag name.
Numeric ID	107		QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String		String data type.
Format	Future Retrieved from the description provided by the exchange		Example: Richards Bay Coal Futures - Richards Bay - Dec17
FUIIIIAL	Future Spread	Retrieved from the description provided by the exchange	Example: UK Natural Gas Spr - NBP - Q1 15/Q2 15

Table 15 Description – technical implementation in QuantFEED® (Continued)

Component Value			Description	
	Option	"Option on" + the description provided by the exchange	Example: Option on Cocoa Futures - NYCC - Dec14	
Format	Future MLEG	[Side+Ratio+Symbol+Maturity+Type]	Side - 1 byte, buy (+), sell (-) Ratio - 2 bytes Symbol - 6 bytes Maturity - YYYYMMDD Type - 1 byte  The format applies for each leg. Example: +01I 20140915F -02I 20141013F +01I 20141117F	
	Option MLEG	[Side+Ratio+Leg's Product Complex]	Side - 1 byte, buy (+), sell (-) Ratio - 2 bytes Leg's Product Complex - 21 bytes, OSI Standard, v. 1.8  The format applies for each leg. Example: +01VOD 140919C00203000 +01VOD 140919P00203000	
Possible Values	[Exchange Specific Value]		An <b>exchange specific value</b> , characterizing the instrument.	

## 2.1.12. SecurityType

The values of the referential tag **Security Type** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the type of security.

 $Quant FEED^*\ implementation\ of\ the\ tag\ Security {\tt Type}\ is\ described\ in\ the\ table\ below:$ 

Table 16 SecurityType – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	SecurityType	QuantFEED® tag name.	
Numeric ID	167	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	String	String data type.	
Format	[Exchange Specific Value]	An <b>exchange specific value</b> , detailing the type of security.	
	FUT	Future	
Possible Values	MLEG	Multileg	
	00F	Options on Futures	
	OPT	Options	

### 2.1.13. StdMaturity

The values of the referential tag **StdMaturity** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the standard maturity of a security.

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

Table 17 StdMaturity – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	StdMaturity	QuantFEED® tag name.	
Numeric ID	200	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	String	String data type.	
Format	[YYYYMM]	Year-Month Format	
Possible values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the standard maturity of a security.	

#### 2.1.14. Factor

The values of the referential tag **Factor** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED® data stream in *Referential* to specify the Contract Value Factor by which a price must be adjusted to determine the true nominal value of one futures/options contract.

QuantFEED\* implementation of the tag Factor is described in the table below:

Table 18 Factor – technical implementation in QuantFEED®

Component	Value Description		
Tag Name	Factor	QuantFEED® tag name.	
Numeric ID	228	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	Float64	Float64 data type.	
Format / Possible values	[Exchange Specific Value]	An exchange specific value, specifying the Contract Value Factor by which a price mus be adjusted to determine the true nominal value of one futures/options contract.	

### 2.1.15. ContractMultiplier

The values of the referential tag **ContractMultiplier** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the amount of underlying asset represented by each derivative contract.

QuantFEED® implementation of the ContractMultiplier is described in the table below:

Table 19 ContractMultiplier – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	ContractMultiplier	QuantFEED® tag name.	
Numeric ID	231	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	Float64	String data type.	
Format / Possible values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the amount of underlying asset represented by each derivative contract.	

#### 2.1.16. CFICode

The values of the referential tag **CFI Code** conveyed on the ICE LIFFE 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 20 CFICode – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	CFICode	QuantFEED® tag name.	
Numeric ID	461	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.	
Туре	String	String data type.	
Format	[Exchange Specific Value]	An <b>exchange specific value</b> , detailing the standardized identification code of an instrument.	
	FCAXXS	Futures - Commodities Futures - Agriculture, Forestry and Fishing - Spread	
	FCAXXX	Futures - Commodities Futures - Agriculture, Forestry an Fishing	
	FCEXXS	Futures - Commodities Futures - Extraction Resources - Spread	
	FCEXXX	Futures - Commodities Futures - Extraction Resources	
Possible Values	FCXPSX	Futures - Commodities Futures - Physical - Standardize	
	FFCXXM	Futures - Financial Futures - Currencies - Other	
	FFCXXS	Futures - Financial Futures - Currencies - Spread	
	FFCXXX	Futures - Financial Futures - Currencies	
	FFDXXM	Futures - Financial Futures - Debt Instruments - Other	
	FFDXXS	Futures - Financial Futures - Debt Instruments - Spread	
	FFDXXX	Futures - Financial Futures - Debt Instruments	

Table 20 CFICode – technical implementation in QuantFEED® (Continued)

Component	Value	Description
	FFIXXS	Futures - Financial Futures - Indices - Spread
	FFIXXX	Futures - Financial Futures - Indices
	FFMXXS	Futures - Financial Futures - Other - Spread
	FFMXXX	Futures - Financial Futures - Other
	FFNXXM	Futures - Financial Futures - Interest Rates - Other
	FFNXXS	Futures - Financial Futures - Interest Rates - Spread
	FFNXXX	Futures - Financial Futures - Interest Rates
	FFSXXX	Futures - Financial Futures - Stock Equities
	FFWXXS	Futures - Financial Futures - Swaps - Spread
	FFWXXX	Futures - Financial Futures - Swaps
	FFXCSX	Futures - Financial Futures - Cash - Standardized
	FFXPSX	Futures - Financial Futures - Physical - Standardized
	MRXXXX	Other - Referential Instruments
	MXXXXX	Other Instruments
	OCAFXX	Options - Call Options - American - Futures
	OCASXX	Options - Call Options - American - Stock Equities
	<del>OCAXPS</del>	Options - Call Options - American - Physical - Standardized
Possible Values	OCEFXX	Options - Call Options - European - Futures
	OCEIXX	Options - Call Options - European - Indices
	OCESXX	Options - Call Options - European - Stock Equities
	<del>OCEXCS</del>	Options - Call Options - European - Cash - Standardized
	<del>OCEXPS</del>	Options - Call Options - European - Physical - Standardized
	OCXSXX	Options - Call Options - Stock Equities
	<del>OCXXXX</del>	Options - Call Options
	OMXXXX	Options - Other
	OPAFXX	Options - Put Options - American - Futures
	OPASXX	Options - Put Options - American - Stock Equities
	<del>OPAXPS</del>	Options - Put Options - American - Physical - Standardized
	OPEFXX	Options - Put Options - European - Futures
	OPEIXX	Options - Put Options - European - Indices
	OPESXX	Options - Put Options - European - Stock Equities
	<del>OPEXCS</del>	Options - Put Options - European - Cash - Standardized
	<del>OPEXPS</del>	Options - Put Options - European - Physical - Standardized
	OPXSXX	Options - Put Options - Stock Equities
	<del>OPXXXX</del>	Options - Put Options

## 2.1.17. SecuritySubType

The values of the referential tag **SecuritySubType** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the subtype of a security.

 $Quant FEED^*\ implementation\ of\ the\ tag\ Security SubType\ is\ described\ in\ the\ table\ below:$ 

Table 21 SecuritySubType – technical implementation in QuantFEED®

Component	Value		Description	Description	
Tag Name	SecuritySubType		QuantFEED® tag name.		
Numeric ID	762		QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.		
Туре	String		String data type.		
	Future	Contract Term has one of the  • Day  • Week  • Balance_of_Month  • Month  • Quarter  • Serial  • Season  • Balance_of_Week		Month Week ar	
		Retrieved from the description provided by the exchange.	FEC Display Name	Strategy Name	
			BALMOSPR	Balmo over Month	
			BLUPACK	Pack (Blue)	
Format			BNDL	Bundle (no color)	
			BNDLY10	Bundle (10yr)	
			BNDLY2	Bundle (2yr)	
			BNDLY3	Bundle (3yr)	
			BNDLY4	Bundle (4yr)	
	Future		BNDLY5	Bundle (5yr)	
	Spread		BNDLY6	Bundle (6yr)	
			BNDLY7	Bundle (7yr)	
			BNDLY8	Bundle (8yr)	
			BNDLY9	Bundle (9yr)	
			вох	Вох	
			CALL	Call	
			CALL3WAY	3-Way: Straddle versus a Call	
			CALLCALSPR	Call Calendar Spread	
			CALLCALX	Hedged Call Calendar	
_			CALLCALX	Hedged Call Calendar	

Table 21 SecuritySubType – technical implementation in QuantFEED® (Continued)

Component	Value		Description	
			FEC Display Name	Strategy Name
			CALLCONDR	Call Condor
			CALLDIAGSP	Diagonal Call Spread
			CALLFLY	Call Butterfly
			CALLLADR	Call Ladder
			CALLLADRX	Hedged Call Ladder
			CALLLADRX	Hedged Call Ladder
			CALLSPR	Call Spread
			CALLSPRP	Call Spread versus Sell Put
			CALLSPRX	Hedged Call Spread
			CALLX	Hedged Call
			CALSTRD	Straddle Spread
			CALSTRDX	Hedged Straddle Spread
			CALSTRDX	Hedged Straddle Spread
			CALSTRDX	Hedged Straddle Spread
			CALSTRDX	Hedged Straddle Spread
			CCONDRX	Hedged Call Condor
			CCONDRX	Hedged Call Condor
			CDIAGX	Hedged Diagonal Call Spread
Format	Future Spread	Retrieved from the description provided by the exchange.	CDIAGX	Hedged Diagonal Call Spread
		provided by the exthanger	CFLYX	Hedged Call Butterlfy
			CFLYX	Hedged Call Butterlfy
			COMBOSPR	Combo Spread
			COPPACK	Pack (Copper)
			CRACK	CRACK Spread
			CSTRP	Call Strip
			CUST	Custom
			FCAL	Futures Calendar Spread
			FCONDR	Futures Condor
			FENCECALL	Fence (to the call)
			FENCECALLX	Hedged Fence (to the call)
			FENCEPUT	Fence (to the put)
			FENCEPUTX	Hedged Fence (to the put)
			FFLY	Futures Butterfly
			FSTRP	Futures Strip
			GLDPACK	Pack (Gold)
			GRNPACK	Pack (Green)
			GUT	Gut Strangle
			GUTX	Hedged Guts Strangle
			GUTX	Hedged Guts Strangle

Table 21 SecuritySubType – technical implementation in QuantFEED® (Continued)

Component	Value		Description	
			FEC Display Name	Strategy Name
			HEATRATE	Heat Rate
			ICONDR	Iron Condor
			ICONDRX	Hedged Iron Condor
			ICONDRX	Hedged Iron Condor
			IFLY	Iron Butterfly
			IFLYX	Hedged Iron Butterfly
			IFLYX	Hedged Iron Butterfly
			JROLL	Jelly Roll
			OILCRACK	OTC Gas Oil Crack
			ORNPACK	Pack (Orange)
			PACK	Pack(no color)
			PCONDRX	Hedged Put Condor
			PCONDRX	Hedged Put Condor
			PDIAGX	Hedged Diagonal Put Spread
			PDIAGX	Hedged Diagonal Put Spread
			PFLYX	Hedged Put ButterIfy
	Future Spread		PFLYX	Hedged Put ButterIfy
			PLATDIFSPR	Platts Diff Spread
Format		Retrieved from the description provided by the exchange.	PLATTSPR	Platts Spread
		provided by the extendinger	PNKPACK	Pack (Pink)
			PSTRP	Put Strip
			PURPACK	Pack (Purple)
			PUT	Put
			PUT3WAY	3-Way: Straddle versus a Put
			PUTCALSPR	Put Calendar Spread
			PUTCALX	Hedged Put Calendar
			PUTCALX	Hedged Put Calendar
			PUTCONDR	Put condor
			PUTDIAGSP	Diagonal Put Spread
			PUTFLY	Put Butterfly
			PUTLADR	Put Ladder
			PUTLADRX	Hedged Put Ladder
			PUTLADRX	Hedged Put Ladder
			PUTSPR	Put Spread
			PUTSPRC	Put Spread versus Sell Call
			PUTSPRX	Hedged Put Spread
			PUTX	Hedged Put
			RATIOCSPR	1x2 Call Spread
			RATIOCSPRX	Hedged 1x2 Call Spread

Table 21 SecuritySubType – technical implementation in QuantFEED® (Continued)

Component	Value		Description	
			FEC Display Name	Strategy Name
			RATIOCSPRX	Hedged 1x2 Call Spread
			RATIOPSPR	1x2 Put Spread
			RATIOPSPRX	Hedged 1x2 Put Spread
			RATIOPSPRX	Hedged 1x2 Put Spread
			RATIOSPR	Ratio Spread
			REDPACK	Pack (Red)
			REVCON	Reversal/Conversion
			SILPACK	Pack (Silver)
			SPR	Spread S
	Future	Retrieved from the description	SPRVSCX	Put Spread versus Sell Call + Hedge
	Spread	provided by the exchange.	SPRVSPX	Call Spread versus Sell Put - Hedge
			STRADDLE	Straddle
Format			STRANGLE	Strangle
Format			STRDSTRP	Straddle Strip
			STRDX	Hedged Straddle
			STRDX	Hedged Straddle
			STRGX	Hedged Strangle
			STRGX	Hedged Strangle
			SYN	Synthetic Underlying
			VOLSPR	Volumetric Spread
			WHTPACK	Pack (White)
			Example: SPR	
	Option	"Option on Future" + Contract Term	For the possible values of the Contract Tersee Future entry above.  Example: Option on Future/Month	
	Future MLEG	Retrieved from the description provided by the exchange	For the possible values of the Contract Tersee Future Spread entry above.  Example: FFLY	
	Option MLEG	Retrieved from the description provided by the exchange.	For the possible values of the Contract Term see Future Spread entry above.  Example: STRADDLE	
Possible Values	[Exchai	nge Specific Value]	An <b>exchange spec</b> subtype of a securi	cific value, detailing the ty.

### 2.1.18. UnderlyingFOSMarketId

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

QuantFEED\* implementation of the tag UnderlyingFOSMarketId is described in the table below:

Table 22 UnderlyingFOSMarketId – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	UnderlyingFOSMarketId	QuantFEED® tag name.
Numeric ID	9509	QuantFEED® unique ID disseminated on S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	UInt16	UInt16 data type.
Format	[Internal Specific Value]	An <i>internal specific value</i> , specifying the market identifier.
Possible Values	XLIF	ICE LIFFE

#### 2.1.19. UnderlyingLocalCodeStr

The values of the referential tag **UnderlyingLocalCodeStr** conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Referential* to specify the ISIN of the underlying instrument.

QuantFEED\* implementation of the tag UnderlyingLocalCodeStr is described in the table below:

Table 23 UnderlyingLocalCodeStr – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	UnderlyingLocalCodeStr	QuantFEED® tag name.
Numeric ID	9510	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	String	String data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the ISIN of the underlying instrument.

## Referential Data Sample

Below is an example of the referential tags implementation before and after the upgrade (newly added tags are in green, tags disseminating updated values are in blue, and removed tags are in crossed out red):

#### Referential Data before 2014-10-13

```
instr # 293/402070 = 614867606
   PriceCurrency
                                string{GBP}
   Symbol
                               string{VOD}
                               string{Call 240 on Vodafone Group plc STND OPT}
   Description
                               string{OPT}
   SecurityType
                               float64{240}
   StrikePrice
    FOSMarketId
                               XLIF
    ContractMultiplier
                               float64{1000}
   CFICode
                               string{OCXXXX}
   InternalCreationDate
                               Timestamp{2014-09-03 23:36:26:401}
   InternalModificationDate
                               Timestamp{2014-09-03 23:36:26:401}
    InternalSourceId
                               uint16{178}
    InternalAggregationId
                               uint16{178}
   LocalCodeStr
                               string{00V0D160600240C}
    PriceIncrement_static
                               float64{0}
   UnderlyingFOSMarketId
                               XLON
                               string{GB00BH4HKS39}
   UnderlyingLocalCodeStr
                               uint16{2016}
    MaturityYear
    MaturityMonth
                               uint8{6}
    MARKET_LIFFE_XDP_StrikePriceDenominator
                                               uint32{1}
    MARKET_LIFFE_XDP_StrikePriceDecimalLocator uint16{0}
    MARKET_LIFFE_XDP_InstrumentDenominator
                                              uint32{1000}
                                           --/--
instr # 293/402827 = 614868363
   PriceCurrency
                               string{CHF}
   Symbol
                               string{C05}
                               string{Future 2015-03 on MEDIUM SWISS CONFEDERATION BOND
   Description
FUTURE}
                               string{FUT}
   SecurityType
                               string{201503}
   StdMaturity
    FOSMarketId
                               XLIF
    Factor
                               float64{0.01}
   ContractMultiplier
                               float64{1}
   CFICode
                               string{FFXPSX}
   DatedDate
                               Timestamp{2014-09-09}
   InternalCreationDate
                               Timestamp{2014-09-08 23:35:18:381}
    InternalModificationDate
                               Timestamp{2014-09-30 23:25:27:186}
    InternalSourceId
                               uint16{174}
                               string{LFC05150300000F}
    LocalCodeStr
    PriceIncrement_static
                               float64{0.01}
                               uint16{2015}
   MaturityYear
   MaturityMonth
                               uint8{3}
    MaturityDay
                               uint8{6}
    MARKET_LIFFE_XDP_InstrumentDenominator
                                               uint32{100}
```

#### Referential Data after 2014-10-13

```
instr # 293/402171 = 6158846206
   PriceCurrency
                          string{GBP}
   Symbol
                          string{VOD}
                          string{Option on Vodafone Group Plc - STND Options - ICEU - Sep14}
   Description
   SecurityType
                          string{OOF}
                          float64{203}
   StrikePrice
   FOSMarketId
                          XLIF
   CFICode
                          string{OCAFXX}
   MinTradeVol
                          float64{1}
   SecuritySubType
                          string{Option on Future/Month}
                          string{VOD 140919C00203000}
   ProductComplex
   InternalCreationDate
                                Timestamp{2014-09-03 07:42:48:784}
    InternalModificationDate
                                Timestamp{2014-09-03 07:42:48:784}
    InternalEntitlementId
                                 string{ICA}
                                 string{91248916}
    LocalCodeStr
   PriceIncrement_static
                                 float64{0.25}
   UnderlyingFOSMarketId
                                uint32{XLIF}
   UnderlyingLocalCodeStr
                                string{5041635}
    UnderlyingFOSInstrumentCode uint32{1011580198}
   MaturityYear
                                uint16{2014}
   MaturityMonth
                                uint8{9}
   MaturityDay
                                uint8{19}
   OperatingMIC
                                string{IFEU}
                                 string{IFLO}
   SegmentMIC
                                string{VOD FMU0014_OMCA0000002030091914}
    MARKET_ICE_ContractSymbol
    MARKET_ICE_SerialUnderlyingLocalCodeStr string{5041631}
                                           --/--
instr # 293/433822 = 614899358
   PriceCurrency
                              string{CHF}
   Symbol
                               string{C05}
   Description
                               string{Medium Swiss Confederation Bond Future - ICEU - Mar15}
   SecurityType
                               string{FUT}
   StdMaturity
                               string{201503}
   FOSMarketId
                               XLIF
                                float64{1000}
   Factor
    ContractMultiplier
                                float64{1000}
    CFICode
                                string{FFDXXX}
   MinTradeVol
                               float64{1}
   SecuritySubType
                               string{Future/Month}
   ProductComplex
                               string{CO5 20150306F}
   InternalCreationDate
                               Timestamp{2014-09-27 01:56:52:021}
   InternalModificationDate
                               Timestamp{2014-10-01 07:42:25:048}
   InternalHideFromLookup
                               bool{True}
   InternalSourceId
                                uint16{69}
   InternalEntitlementId
                                int32{1175}
   LocalCodeStr
                                string{5096624}
   PriceIncrement_static
                                float64{0.01}
   MaturityYear
                               uint16{2015}
   MaturityMonth
                               uint8{3}
   MaturityDay
                               uint8{6}
   OperatingMIC
                               string{IFEU}
   SegmentMIC
                               string{IFLL}
   MARKET_ICE_ContractSymbol string{C05 FMH0015!}
   MARKET_ICE_OffExchangeIncrementQty float64{1}
    MARKET_ICE_OffExchangeIncrementPrice
                                               float64{1}
```

## 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 ICE LIFFE market data stream:

Table 24 Quotation tags added on the ICE LIFFE market data stream

Tag Name	Numeric ID	Туре
DailySettlementPrice	9133	Float64
OpenInterest	9150	Float64
SettlementPriceDate	9380	Timestamp
OpenInterestDate	9382	Timestamp
SettlementPriceType	9383	Char
MARKET_ICE_IntervalPriceLimitsOnHold	14503	Bool

## 2.2.1. DailySettlementPrice

The values of the quotation tag **DailySettlementPrice** conveyed on the ICE LIFFE 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 25 DailySettlementPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	DailySettlementPrice	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.
Туре	Float64	Float64 data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , specifying the value of the daily settlement price.

# 2.2.2. OpenInterest

The values of the quotation tag **OpenInterest** conveyed on the ICE LIFFE 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 Levell event quotNotifTradeEventExt, for Java.

QuantFEED\* implementation of the tag OpenInterest is described in the table below:

Table 26 OpenInterest – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	OpenInterest	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.
Туре	Float64	Float64 data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , detailing the amount of derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

#### 2.2.3. SettlementPriceDate

The values of the quotation tag **SettlementPriceDate** conveyed on the ICE LIFFE 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 Levell event quotNotifTradeEventExt, for Java.

QuantFEED\* implementation of the tag SettlementPriceDate is described in the table below:

Table 27 SettlementPriceDate – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	SettlementPriceDate	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.
Туре	Timestamp	Timestamp data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , indicating the date of the settlement price.

## 2.2.4. OpenInterestDate

The values of the quotation tag **OpenInterestDate** conveyed on the ICE LIFFE 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 Levell event quotNotifTradeEventExt, for Java.

QuantFEED® implementation of tag OpenInterestDate is described below:

Table 28 OpenInterestDate – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	OpenInterestDate	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.
Туре	Timestamp	Timestamp data type.
Format / Possible Values	[Exchange Specific Value]	An <b>exchange specific value</b> , indicating the date of the derivative contracts that have not been settled in the immediately previous time period for a specific underlying security.

#### 2.2.5. SettlementPriceType

The values of the quotation tag **SettlementPriceType** conveyed on the ICE LIFFE 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 Levell event quotNotifTradeEventExt, for Java.

QuantFEED\* implementation of the tag SettlementPriceType is described in the following table (the values disseminated as of 2014-10-13 are highlighted in green):

Table 29 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.
Туре	Char	Timestamp data type.
Format	[Exchange Specific Value]	An <b>exchange specific value</b> , 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

#### 2.2.6. MARKET\_ICE\_IntervalPriceLimitsOnHold

The values of the quotation tag MARKET\_ICE\_IntervalPriceLimitsOnHold conveyed on the ICE LIFFE market data stream are disseminated via QuantFEED\* data stream in *Other Values* to indicate whether an instrument is in an IPL hold or not:

- in the callback carrying the Level1 event notif\_TradeEventExt(), for C++
- in the event handler TradeEventExtEventHandler, for C#

• in the callback carrying the Levell event quotNotifTradeEventExt, for Java.

QuantFEED\* implementation of the tag MARKET\_ICE\_IntervalPriceLimitsOnHold is described in the table below:

Table 30 MARKET\_ICE\_IntervalPriceLimitsOnHold – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_ICE_IntervalPriceLimitsOnHold	QuantFEED® tag name.
Numeric ID	14503	QuantFEED® unique ID disseminated on the S&P Capital IQ Real-Time Solutions data stream. This is the numeric equivalent of the tag name.
Туре	Bool	Bool data type.
Format	[Exchange Specific Value]	An <b>exchange specific value</b> , indicating whether an instrument is in an IPL hold or not.
Possible Values	True	IPL hold

#### **Quotation Data Sample**

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

```
InstrumentStatusL1
-- 293/753812
       BID: 113.47
                                *NO ORDER*
       ASK: 114
                                *NO ORDER*
       LastPrice
                                        float64{114}
       LastTradeQty
                                        float64{5}
       DailyHighPrice
                                        float64{114}
                                        float64{113.49}
       DailyLowPrice
       DailyTotalVolumeTraded
                                        float64{202}
       DailyTotalAssetTraded
                                        float64{22641.4}
       LastTradePrice
                                        float64{114}
       LastTradeTimestamp
                                        Timestamp{2014-10-17 14:13:36:687}
                                        Timestamp{2014-10-17 12:24:43:611}
       InternalDailyOpenTimestamp
                                        Timestamp{2014-10-17 12:26:53:240}
        InternalDailyCloseTimestamp
        InternalPriceActivityTimestamp
                                       Timestamp{2014-10-17 12:26:53:240}
       TradingStatus
                                        18=NotAvailableForTrading
        SessionVWAPPrice
                                        float64{113.77}
       DailyOpeningPrice
                                        float64{113.49}
       DailyClosingPrice
                                        float64{114}
       DailySettlementPrice
                                        float64{113.49}
       PreviousDailyTotalVolumeTraded float64{0}
        PreviousDailyTotalAssetTraded float64{0}
        PreviousDailyClosingPrice
                                        float64{113.49}
       PreviousBusinessDay
                                        Timestamp{2014-10-16}
                                        Timestamp{2014-10-17}
        CurrentBusinessDay
       PreviousDailySettlementPrice
                                        float64{113.49}
       OpenInterest
                                        float64{135}
        LastAuctionPrice
                                        float64{113.49}
       DailyTotalOffBookVolumeTraded
                                       float64{0}
        InternalLastAuctionTimestamp
                                        Timestamp{2014-10-17 12:23:41:129}
        PriceActivityMarketTimestamp
                                        Timestamp{2014-10-17 16:00:00:107}
        SettlementPriceDate
                                        Timestamp\{2014-10-17\}
        OpenInterestDate
                                        Timestamp{2014-10-17}
        SettlementPriceType
       MARKET_ICE_IntervalPriceLimitsOnHold
                                                 bool{True}
```

# 2.3. Changes to the MBL Book Depth

Effective 2014-10-13, the **MBL Book** on the ICE LIFFE market data stream has a **5-level depth for Futures** and **10-level depth for Options**.

# 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.