S&P Capital IQ Real-Time Solutions

FeedOS™ Developer's Notice

ORION DERIVATIVES – Feed Migration from IDC to DMA

Reference n°: 20141120 - 18312 - 23138

Effective as of: 15 December 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
FeedOS™ Developer's Notice: ORION DERIVATIVES – Feed Migration from IDC to DMA
Reference 20141120 – 18312 – 23138
November 24, 2014

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To reflect the changes caused by the migration of the ORION DERIVATIVES market data stream from IDC to DMA protocol, 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	20141120 – 18312 – 23138	
Exchanges	ORION DERIVATIVES	
Concerned MICs	XHKF	
Internal Source ID	54, 136, 139, 206, 215, 218	
Effective Date	2014-12-15*	
Impact	 Update of the Referential Tags Update of the Quotation Tags Update of the Quotation Context Tags Addition of the Multi-session Kinematics Update of the MBL Book Depth 	
Action required	MANDATORY ACTION - see sections: • 2.1.1. CFICode, • 2.2.2. TradingStatus • 2.4. Addition of the Multi-session Kinematics • 2.5. Changes to the MBL Book Depth.	

2. FeedOS Technical Implementation

Effective Monday, **December 15*** **2014,** S&P Capital IQ Real-Time Solutions enhances the referential, quotation and quotation context data, introduces multi-session kinematics and updates the MBL book depth to accommodate the new information disseminated on the ORION DERIVATIVES 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
- 2.4. Addition of the Multi-session Kinematics
- 2.5. Changes to the MBL Book Depth.

2.1. Changes to the Referential Data

S&P Capital IQ Real-Time Solutions **updates** the values of the referential tags below to accommodate the information disseminated on the ORION DERIVATIVES market data stream:

Table 2 Referential tags disseminating updated values on the ORION DERIVATIVES market data stream

Tag Name	Numeric ID	Туре
CFICode	461	String

2.1.1. CFICode

The values of the referential tag **CFI Code** conveyed on the ORION DERIVATIVES market data stream are disseminated via FeedOS data stream in *Referential* to specify the standardized identification code of an instrument.

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

Table 3 CFICode – technical implementation in FeedOS

Component	Value	Description
Tag Name	CFICode	FeedOS tag name.
Numeric ID	461	FeedOS 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 , detailing the standardized identification code of an instrument.

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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 FeedOS™ project manager.

Table 3 CFICode – technical implementation in FeedOS (Continued)

Component	Value	Description
	FCECS0	Futures - Commodities - Extraction Resources - Cash - Standardized - Outright
	FFCCS0	Futures - Financial Futures - Currencies - Cash - Standardized - Outright
	FFDPSO	Futures - Financial Futures - Debt Instruments - Physical - Standardized - Outright
	FFICSO	Futures - Financial Futures - Indices - Cash - Standardized - Outright
	FFNCSO	Futures - Financial Futures - Interest Rates - Cash - Standardized - Outright
	FFSCSM	Futures - Financial Futures - Stock Equities - Cash - Standardized - Others
	FXXXX	Futures
	MRXXXX	Other - Referential Instruments
Possible Values	OCASCS	Options - Call Options - American - Stock Equities - Cash - Standardized
	OCEICS	Options - Call Options - European - Indices - Cash - Standardized
	OCXXXX	Options - Call Options
	OPASCS	Options - Put Options - American - Stock Equities - Cash - Standardized
	OPEICS	Options - Put Options - European - Indices - Cash - Standardized
	OPXXXX	Options - Put Options
	0XXXX	Options
	SOXXXX	Structured Products - Structured Products without Capital Protection
	SWSXXX	Structured Products - Structured Products with Capital Protection - Stock-Equities
	SXXXXX	Structured Products

The list below shows the possible combinations of FOSMarketIds, SecurityTypes and CFICodes, before and after the migration day:

BEFORE 2014-12-15	AFTER 2014-	12-15	
{ XHKF FUT FXXXXX }	{ XHKF FUT	FCECSO }	}
{ XHKF MLEG MRXXXX }	{ XHKF FUT	FFCCSO }	}
{ XHKF OPT OCXXXX }	{ XHKF FUT	<pre>FFDPSO }</pre>	}
{ XHKF OPT OPXXXX }	{ XHKF FUT	<pre>FFICSO }</pre>	}
{ XHKF OPT OXXXXX }	{ XHKF FUT	FFNCSO }	}
	{ XHKF FUT	<pre>FFSCSM }</pre>	}
	{ XHKF MLEG	SOXXXX }	}
	{ XHKF MLEG	SWSXXX }	}
	{ XHKF MLEG	SXXXXX }	}
	{ XHKF OPT	OCASCS }	}
	{ XHKF OPT	OCEICS }	}
	{ XHKF OPT	OPASCS }	}
	{ XHKF OPT	OPEICS }	}

Referential Data Sample

Below is an example of the referential tags implementation before and after the upgrade (tags disseminating updated values are in blue):

Referential Data before 2014-12-15

```
instr # 109/20739 = 228610307
   PriceCurrency
                               string{HKD}
                               string{HSIV4}
   Symbol
   Description
                               string{HANG SENG INDEX HSIV4}
                               string{FUT}
   SecurityType
   StdMaturity
                               string{20141030}
   FOSMarketId
                               XHKF
                               float64{50}
   Factor
   ContractMultiplier
                               float64{1}
   CFICode
                               string{FXXXXX}
   MarketSegmentID
                               string{Hang Seng Index Futures / Options}
                               Timestamp{2014-10-29 02:36:00:695}
   InternalCreationDate
   InternalModificationDate
                               Timestamp{2014-10-29 08:05:31:003}
   InternalEntitlementId
                               int32{1039}
   LocalCodeStr
                               string{HSIV4}
   ForeignFOSMarketId
                               XHKF
   ForeignMarketId
                               string{XHKF}
   PriceIncrement_static
                               float64{1}
   MaturityYear
                               uint16{2014}
   MaturityMonth
                               uint8{10}
   MaturityDay
                               uint8{30}
   OperatingMIC
                               string{XHKF}
```

Referential Data after 2014-12-15

```
instr # 109/1617 = 228591185
   PriceCurrency
                               string{HKD}
   Symbol
                               string{HSIH5}
   Description
                               string{HANG SENG INDEX HSIH5}
   SecurityType
                               string{FUT}
   StdMaturity
                               string{20150330}
   FOSMarketId
                               XHKF
   Factor
                               float64{50}
   ContractMultiplier
                               float64{1}
   CFICode
                               string{FFICSO}
   InternalCreationDate
   MarketSegmentID
                               string{Hang Seng Index Futures / Options}
                               Timestamp{2014-11-03 15:17:53:926}
   InternalModificationDate
                               Timestamp{2014-11-04 16:01:12:593}
   InternalSourceId
                               uint16{73}
   InternalEntitlementId
                               int32{1039}
   LocalCodeStr
                               string{HSIH5}
   ForeignFOSMarketId
                               XHKF
   ForeignMarketId
                               string{XHKF}
   PriceIncrement_static
                               float64{1}
   MaturityYear
                               uint16{2015}
   MaturityMonth
                               uint8{3}
   MaturityDay
                               uint8{30}
   OperatingMIC
                               string{XHKF}
```

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 ORION DERIVATIVES market data stream:

Table 4 Quotation tags added on the ORION DERIVATIVES market data stream

Tag Name	Numeric ID	Туре
MARKET_HK_TradingState	15010	String

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

Table 5 Quotation tags disseminating updated values on the ORION DERIVATIVES market data stream

Tag Name	Numeric ID	Туре
TradingStatus	9100	Enum

2.2.1. MARKET_HK_TradingState

The values of the quotation tag MARKET_HK_TradingState conveyed on the ORION DERIVATIVES market data stream are disseminated via FeedOS data stream in *Other Values* to indicate the original trading state value sent by the exchange:

- 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.

FeedOS implementation of the tag MARKET_HK_TradingState is described in the following table:

Table 6 MARKET_HK_TradingState – technical implementation in QuantFEED®

Component	Value	Description	
Tag Name	MARKET_HK_TradingState	FeedOS tag name.	
Numeric ID	15010	FeedOS 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	Timestamp data type.	
Format	[Exchange Specific Value]	An exchange specific value , indicating the original trading state value sent by the exchange.	
	OPENALLOC	Open Allocation Session – Markets with Pre-market Opening Period	
-	CLOSE	Market Closed – Markets not tradable in T+1 Session	
	OPEN	Market Open – All markets	
	PREOPEN	PreOpen Session – Markets with Pre-market Opening Period	
Possible	PREOPENALLOC	PreOpen Allocation Session – Markets with Pre-market Opening Period	
Values	PAUSE	Market Pause – All markets	
	PRE_MKT_ACT	PreMarket Activities – Markets without Pre-market Opening Period	
	CL_START	Clearing Session Start – Markets tradable in T+1 Session	
	CL_CLOSE	Clearing Session Close – All markets	
	AHT_CLOSE	AHFT Market Closed – Markets tradable in T+1 Session	
	AHT_CLR_INFO	AHFT Reset Price Information – Markets tradable in T+1 Session	

Table 6 MARKET_HK_TradingState – technical implementation in QuantFEED® (Continued)

Component	Value	Description
	AHT_INACT_T_ ORDER	AHFT Inactive Non T+1 Order – Markets tradable in T+1 Session
	AHT_NEXT_DA Y	AHFT Reset Price Information for the Next Business Day – Markets tradable in T+1 Session
	AHT_OPEN	AHFT Market Open – Markets tradable in T+1 Session
	AHT_OPEN_PL	AHFT Market Open – Markets tradable in T+1 Session with price limit control enabled
Possible Values	AHT_PRE_MKT_ACT	AHFT PreMarket Activities – Markets tradable in T+1 Session
	OPEN_PL	Market Open – Markets enabled with price limit control
	CLOSE_TODAY	Market Closed for Today Trading – Markets tradable in T+1 Session
	OPEN_DPL	Market Open – Markets enabled with dynamic price banding mechanism
	FAILOVER	Site Failover – All markets

2.2.2. TradingStatus

Each time a modification of the trading status occurs, the values of the quotation tag **TradingStatus** conveyed on the ORION DERIVATIVES market data stream are disseminated via FeedOS data stream in *Other Values*:

- 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.

FeedOS implementation of the tag TradingStatus is described in the following table (newly added values are in green):

Table 7 Trading Status of the ORION DERIVATIVES market data stream – technical implementation in FeedOS

Component	Value	Description
Tag Name	TradingStatus	FeedOS tag name.
Numeric ID	9100	FeedOS unique ID broadcast on the S&P Capital IQ Real- Time Solutions data stream. It is the numeric equivalent of the tag name.
Туре	Enum	Enumeration data type.
Format	[Exchange Specific Value]	An exchange specific value , as described below, concerning the characteristics of the trading status.
	2	Trading Halt
	16	Trade Dissemination Time
Possible Values	17	Ready to Trade
	18	Not Available for Trading
	21	Pre-Open

Quotation Data Sample

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

Quotation Data before 2014-12-15

```
InstrumentStatusL1
-- 109/20739
                                  @1
        BID: 24590
                                  @1
        ASK: 24630
                          1
                                        float64{24592}
        LastPrice
        LastTradeQty
                                        float64{1}
        DailyHighPrice
                                        float64{24621}
        DailyLowPrice
                                        float64{24590}
        DailyTotalVolumeTraded
                                        float64{340}
        DailyTotalAssetTraded
                                        float64{516719}
        LastTradePrice
                                        float64{24592}
                                        Timestamp{2014-09-11 14:59:01}
        LastTradeTimestamp
        InternalDailyOpenTimestamp
                                        Timestamp{2014-10-29 09:32:36:494}
                                        Timestamp{2014-10-29 09:26:58:859}
        InternalDailyCloseTimestamp
        InternalDailyHighTimestamp
                                        Timestamp{2014-10-29 09:32:37:021}
        InternalDailyLowTimestamp
                                        Timestamp{2014-10-29 09:59:58:970}
        InternalPriceActivityTimestamp
                                        Timestamp{2014-10-29 10:17:37:609}
        TradingStatus
                                        18=NotAvailableForTrading
        TradingSessionId
                                        int8{1}
        LastOffBookTradePrice
                                        float64{24600}
        LastOffBookTradeQty
                                        float64{200}
        LastOffBookTradeTimestamp
                                        Timestamp{2014-09-11 05:45:27}
        SessionTotalOffBookAssetTraded float64{0}
        SessionTotalOffBookVolumeTraded float64{0}
        SessionTotalVolumeTraded
                                        float64{21}
        SessionOpeningPrice
                                        float64{24676}
        PreviousSessionClosingPrice
                                        float64{24630}
        SessionHighPrice
                                        float64{24621}
        SessionLowPrice
                                        float64{24590}
        SessionTotalAssetTraded
                                        float64{516719}
        SessionClosingPrice
                                        float64{24592}
        DailyOpeningPrice
                                        float64{24619}
        DailySettlementPrice
                                        float64{24630}
        PreviousDailyTotalVolumeTraded float64{319}
        PreviousDailyTotalAssetTraded
                                        float64{8377708}
        PreviousDailyClosingPrice
                                        float64{24630}
        PreviousBusinessDay
                                        Timestamp{2014-10-29}
                                        Timestamp{2014-10-29}
        CurrentBusinessDay
        PreviousDailySettlementPrice
                                        float64{24547}
        DailyTotalOffBookVolumeTraded
                                        float64{0}
        DailyTotalOffBookAssetTraded
                                        float64{0}
        OpenInterest
                                        float64{4198}
        PriceActivityMarketTimestamp
                                        Timestamp{2014-09-11 15:00:00:050}
        SettlementPriceDate
                                        Timestamp{2014-10-29}
        OpenInterestDate
                                        Timestamp{2014-10-29}
        SettlementPriceType
                                        char{a}
```

Quotation Data after 2014-12-15:

```
InstrumentStatusL1
-- 109/20738
        BID: 24582
                                @1
        ASK: 24656
                                @1
       LastPrice
                                         float64{24615}
                                         float64{1}
       LastTradeQty
        DailyHighPrice
                                         float64{24649}
        DailyLowPrice
                                         float64{24586}
        DailyTotalVolumeTraded
                                         float64{44815}
        DailyTotalAssetTraded
                                         float64{48475741}
       LastTradePrice
                                        float64{24615}
                                        Timestamp{2014-09-11 14:59:58}
        LastTradeTimestamp
        InternalDailyOpenTimestamp
                                        Timestamp{2014-10-29 03:45:10:293}
        InternalDailyCloseTimestamp
                                        Timestamp{2014-10-29 03:40:40:188}
        InternalDailyHighTimestamp
                                        Timestamp{2014-10-29 03:50:27:877}
        InternalDailyLowTimestamp
                                        Timestamp{2014-10-29 04:19:03:556}
        InternalPriceActivityTimestamp
                                        Timestamp{2014-10-29 05:34:01:647}
       TradingStatus
                                         2=TradingHalt
       TradingSessionId
                                         int8{1}
        LastOffBookTradePrice
                                         float64{24625}
        LastOffBookTradeQty
                                         float64{12}
        LastOffBookTradeTimestamp
                                        Timestamp{2014-09-11 08:10:37}
       SessionTotalOffBookAssetTraded float64{0}
        SessionTotalOffBookVolumeTraded float64{0}
        SessionTotalVolumeTraded
                                         float64{1969}
        SessionOpeningPrice
                                         float64{24637}
        PreviousSessionClosingPrice
                                         float64{24648}
        SessionHighPrice
                                         float64{24649}
        SessionLowPrice
                                         float64{24586}
        SessionTotalAssetTraded
                                         float64{48475741}
        DailyOpeningPrice
                                         float64{24637}
        DailySettlementPrice
                                         float64{24648}
        PreviousDailyTotalVolumeTraded
                                        float64{42846}
        PreviousDailyTotalAssetTraded
                                         float64{1056144833}
        PreviousDailyClosingPrice
                                        float64{24648}
                                        Timestamp{2014-10-29}
        PreviousBusinessDay
        CurrentBusinessDay
                                        Timestamp{2014-10-29}
        DailyTotalOffBookVolumeTraded
                                        float64{0}
        DailyTotalOffBookAssetTraded
                                        float64{0}
        OpenInterest
                                         float64{40980}
                                        Timestamp{2014-10-29 03:20:38:480}
        InternalLastAuctionTimestamp
        PriceActivityMarketTimestamp
                                        Timestamp{2014-09-11 21:04:47:741}
        SettlementPriceDate
                                        Timestamp{2014-10-29}
        OpenInterestDate
                                        Timestamp{2014-10-29}
        SettlementPriceType
                                         char{a}
        MARKET_HK_TradingState
                                         string{CL_Start}
```

2.3. Changes to the Quotation Context Data

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

Table 8 Quotation context tags disseminating updated values on the ORION DERIVATIVES market data stream

Tag Name	Numeric ID	Туре
TradeCondition	277	String

2.3.1. TradeCondition

Each time a trade occurs, the values of the quotation tag **TradeCondition** conveyed on the ORION DERIVATIVES market data stream are disseminated via FeedOS data stream in *Context* to identify the particular condition applicable to a trade:

- 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.

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

Table 9 TradeCondition – technical implementation in FeedOS

Component	Value	Description
Tag Name	TradeCondition	FeedOS tag name.
Numeric ID	277	FeedOS unique ID broadcast 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 , detailing the particular condition applicable to a trade.
Possible Values	х	Cross Trade

Quotation Context Data Sample

Below is an example showing the newly added (in green) quotation context tags:

```
"TE (TradeEvent): MARKET_TIME INSTRUMENT LAST_PRICE TRADE_QTY BID_PRICE BID_QTY ASK_PRICE ASK_QTY *CONTENT_MASK* *FLAGS*"

"VU (ValuesUpdate): SERVER_TIME INSTRUMENT VALUES..."

VU 06:39:59:114 228610522 TradingStatus=17

TE 06:39:59:114 228610522 0.99 1.04 0.99 10102@1 0.89 9616@1 L

TradeCondition=X
```

2.4. Addition of the Multi-session Kinematics

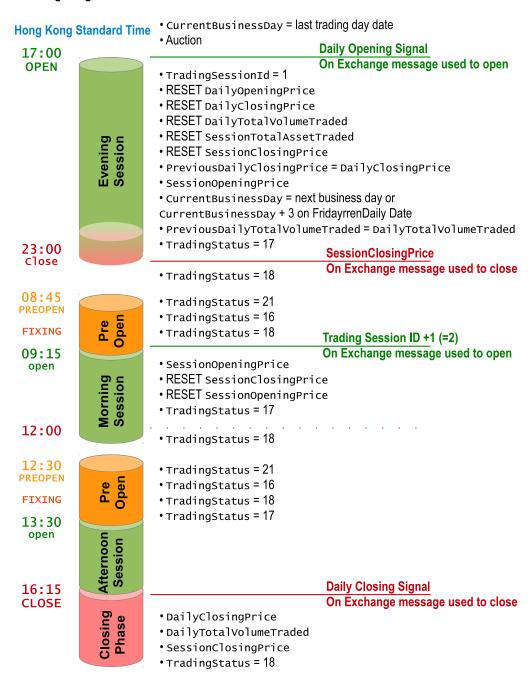
The following segments have now multi-session kinematics:

- HangSengIndexFuturesAndOptions
- HSharesIndexFuturesAndOptions

- MiniHangSengIndexFuturesAndOptions
- RenminbiCurrencyFutures
- AsiaCommoditiesFutures
- ThermalCoalFutures.

The diagram below describes the main trading phases and the update mechanism of the tags available for a HSI Future available on the ORION DERIVATIVES market data stream:

Figure 9-1 Example of tags update mechanism for a HSI Future on the ORION DERIVATIVES market data stream in Hong Kong Standard Time



2.5. Changes to the MBL Book Depth*

Effective 2014-12-15, the MBL Book on the ORION DERIVATIVES market data stream has a 10-level depth.

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.

The MBL data may not be included by default in your Level1 data subscription, but sold separately. Depending on your contract, additional terms, conditions and fees may apply. For more details about the subscription options, please contact S&P Capital IQ Real-Time Solutions.