

## **Summary of OMD-D Changes Orion Derivatives Platform (“ODP”) Migration**

This summary highlights the interface, message handling and network changes in OMD-D to be implemented in the Orion Derivatives Platform (“ODP”) Migration, aiming to facilitate OMD-D clients in locating the difference between the current production version and the version of OMD-D under ODP more efficiently.

Please note that Interface Specification (v2.1), OMD-D Developers Guide (v2.0) and OMD-D Connectivity Guide (v2.0) are used in compiling this summary. The information provided in this summary would be changed in case of any updates on the aforementioned OMD-D technical documents in the future.

OMD-D Clients should always refer to the OMD-D technical documents for the details and all OMD-D technical documents can be found in the [OMD-D web corner](#).

**OMD-D Interface Change - Message Level**

Change Category	OMD-D Message	Remarks
<b>New Message</b>	VCM Trigger (324)	
	THM Trigger (325)	
	Aggregate Implied Quantity (337)	
<b>Removal of Existing Message</b>	Series Definition Extended (304)	
	Series Statistics (363)	
<b>Rename &amp; Restructure Existing Message</b>	Instrument Definition (303)	Merged with Series Definition Extended (304)
	Instrument Status (321)	Rename from "Series" to "Instrument"
	Commodity & Class Status (322)	Include the class status

**OMD-D Interface Change - Message Field Level**

Message Category	OMD-D Message	New Message Fields	Removal of Existing Fields	Change of Existing Field Length	Change of Existing Field Format
Reference Data	Commodity Definition (301)	<i>UnderlyingIssuer</i>	<i>UnderlyingPriceUnit</i>	<i>CommodityCode</i>	<i>UnderlyingType</i>
		<i>CACreated</i>	<i>ISINCode</i>	<i>CommodityName</i>	
			<i>NominalValue</i>		
	Class Definition (302)	<i>InstrumentClassKey</i>	<i>Country</i>	<i>InstrumentGroup</i>	<i>PriceQuotationFactor</i>
		<i>Exchange</i>	<i>DecimalInPremium</i>	<i>CommodityCode</i>	
		<i>DecimalInPrice</i>	<i>RankingType</i>	<i>DecimalInStrikePrice</i>	
			<i>PremiumUnit4Price</i>	<i>DecimalInContractSize</i>	
			<i>IsFractions</i>	<i>InstrumentClassName</i>	
				<i>SettlementCurrencyID</i>	

Message Category	OMD-D Message	New Message Fields	Removal of Existing Fields	Change of Existing Field Length	Change of Existing Field Format
	<b>Instrument Definition (303)</b>  *Merge with existing Series Definition Extended (304)	<i>InstrumentClassKey</i>	<i>ExpirationDate</i>	<i>StrikePrice</i>	
		<i>Exchange</i>	<i>NumberOfDecimalsPrice</i>	<i>DecimalInStrikePrice</i>	
		<i>Market</i>			
		<i>InstrumentGroup</i>			
		<i>Modifier</i>			
		<i>CommodityCode</i>			
		<i>DateTimeLastTrading</i>			
		<i>EffectiveLastTradingDate</i>			
		<i>DateTimeFirstTrading</i>			
		<i>InstrumentStatus</i>			
		<i>DecimalInPrice</i>			
		<i>ContractSize</i>			
<i>PriceQuotationFactor</i>					

Message Category	OMD-D Message	New Message Fields	Removal of Existing Fields	Change of Existing Field Length	Change of Existing Field Format
		<i>VCM Flag</i>			
		<i>ISINCode</i>			
		<i>EffectiveTomorrow</i>			
Status Data	Market Status (320)	<i>InstrumentClassKey</i>	<i>OrderBookID</i>	<i>StateLevel</i>	<i>StateLevel</i>
		<i>TradingSession</i>	<i>SecondsToStateChange</i>	<i>Market</i>	
			<i>Priority</i>	<i>InstrumentGroup</i>	
				<i>CommodityCode</i>	
	Commodity & Class Status (322)	<i>InstrumentClassKey</i>	<i>Locked</i>	<i>CommodityCode</i>	
Order Book Data	Add Order (330)			<i>Price</i>	
				<i>OrderType</i>	
	Modify Order (331)			<i>Price</i>	
				<i>OrderType</i>	

Message Category	OMD-D Message	New Message Fields	Removal of Existing Fields	Change of Existing Field Length	Change of Existing Field Format	
	Aggregate Order Book Update (353)	<i>AggregateImpQuantity</i>		<i>AggregateQuantity</i>		
				<i>Price</i>		
				<i>NumberOfOrders</i>		
Trade and Price Data	Trade (350)	<i>MatchID</i>	<i>ComboGroupID</i>	<i>Price</i>		
		<i>MatchType</i>	<i>DealType</i>	<i>Quantity</i>		
		<i>TradeType</i>	<i>TradeCondition</i>			
		<i>TradeSubtype</i>	<i>DealInfo</i>			
	Trade Amendment (356)	<i>OrderbookID</i>	<i>ComboGroupID</i>	<i>Price</i>		
		<i>AmendmentExecutionTime</i>	<i>TradeTime</i>	<i>Quantity</i>		
	Trade Statistics (360)			<i>DealSource</i>	<i>LastPrice</i>	
				<i>AggregateQuantity</i>	<i>OpenPrice</i>	
				<i>DealCount</i>	<i>HighPrice</i>	
					<i>LowPrice</i>	

Message Category	OMD-D Message	New Message Fields	Removal of Existing Fields	Change of Existing Field Length	Change of Existing Field Format
	Calculated Opening Price (364)			<i>CalculatedOpeningPrice</i>	
News	Market Alert (323)			<i>AlertID</i>	
Clearing Information	Open Interest (366)		<i>DealCount</i>	<i>SettlementPrice</i>	
			<i>Turnover</i>		

**OMD-D Message Handling and Network Change**

<b>Change Category</b>	<b>Datafeed Related</b>	<b>Current Production Version of OMD-D</b>	<b>ODP Version of OMD-D</b>
<b>Linkage Between Class Definition Other Messages</b>	All datafeeds	Use "Market", "InstrumentGroup" and "Commodity Code" to form an unique key to link with other messages, e.g. Series Definition Extended (304).	While retaining the existing linkage method, a short-cut key "InstrumentClassKey" can be used to link between Class Definition (302) message with other messages, e.g. Instrument Definition (303) and Market Status (320).
<b>Decimal of Price field Determination</b>	All datafeeds	Use "DecimalInPremium" in Class Definition (302) message and "NumberOfDecimalsPrice" in Series Definition Base (303) message to determine the decimal of different price fields.	Use one standardized field, "DecimalInPrice" in Class Definition (302) message, to determine the decimal of different price fields, e.g. order price and trade price.
<b>Market Status</b>	All datafeeds	Identify Active Instrument State (AIS) from Trading Session State (TSS) and Instrument Session state (ISS) by comparing their priority..	ISS concept and priority determination are no longer applicable.



Change Category	Datafeed Related	Current Production Version of OMD-D	ODP Version of OMD-D
<b>Volatility Control Mechanism (VCM) Triggering</b>	All datafeeds	Provide VCM triggering and the relevant information via Market Status (320) and Market Alert (323) messages.	Provide VCM triggering and the relevant information via a dedicated message, VCM Trigger (324).
<b>Trading Halt Mechanism (THM) Triggering</b>	All datafeeds	Provide THM triggering information via Market Status (320) message.	Provide THM triggering information via a dedicated message, THM Trigger (325).
<b>Aggregate Order Book Management</b>	D-Lite, DS and DP	The field "AggregateQuantity" consists of quantity of both normal order and implied order.	Two fields "AggregateQuantity" and "AggregateImpQuantity" separately indicate the aggregate quantity of normal order and implied order.
		Message with "NumberOfOrders" = 0 is not expected.	Possible to have "NumberOfOrders" = 0 when only implied quantity is presented, but no normal order, at the particular price level.  "NumberOfOrders" represents the count of normal order only.
	DP	Providing 11+ price level.	No longer provide 11+ price level.

Change Category	Datafeed Related	Current Production Version of OMD-D	ODP Version of OMD-D
<b>Full Order Book Management</b>	DF	Implied order is provided via Add Order (330) and Delete Order (332) messages, and is identified in the field "OrderType".	All order book related messages only provide normal order information.  Quantity of all implied orders at the particular price level are aggregated and provided via Aggregate Implied Quantity (337) message.
		Modify Order (331) message is not in use.	Modify Order (331) message is expected to be use.
		Trade (350) message is required to use in building the full order book.	Both Modify Order (331) and Delete Order (332) messages are disseminated to indicate the change and deletion of the order.
<b>Trade and Trade Amendment</b>	DP, DF and DT	Trade time precision is up to 1/100 <sup>th</sup> second.	Trade time precision is up to 1/10000 <sup>th</sup> second.
		No direct linkage to which instrument in Trade Amendment (356) message.	OrderBookID is available in Trade Amendment (356) message for linking to the corresponding instrument.

Change Category	Datafeed Related	Current Production Version of OMD-D	ODP Version of OMD-D
<b>Statistics</b>	D-Lite, DS and DP	Both Series Statistics (363) and Trade Statistics (360) messages are in snapshot basis.	Trade Statistics (360) message is in streaming basis in DP. Trade Statistics (360) message is in snapshot basis in D-Lite and DS, according to their dissemination frequency.  * Series Statistics (363) is obsoleted
<b>Multicast Channels</b>	All datafeeds	3 partitions.	6 partitions.