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CONNECTIVITY GUIDE

HKEX Orion Market Data Platform
OMD-D Connectivity Guide

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1. Overview

The target readers of this document are the technical personnel of Market Data Vendors, End-Users, Application Service Providers (“ASPs”) and Independent Software Vendors (“ISVs”) of HKEX Orion Market Data Platform – Derivatives Market ("OMD-D").

This document aims to provide network configuration information and guidance to assist clients in setting up their networks for making connection to OMD-D testing and production environments.

This document contains:

- Configuration information, i.e. IP addresses of the channels assigned for each of the OMD datafeed products in OMD Production environment and Open/Readiness Test environment
- Guidelines / policies for SDNet/2 and HSN connection

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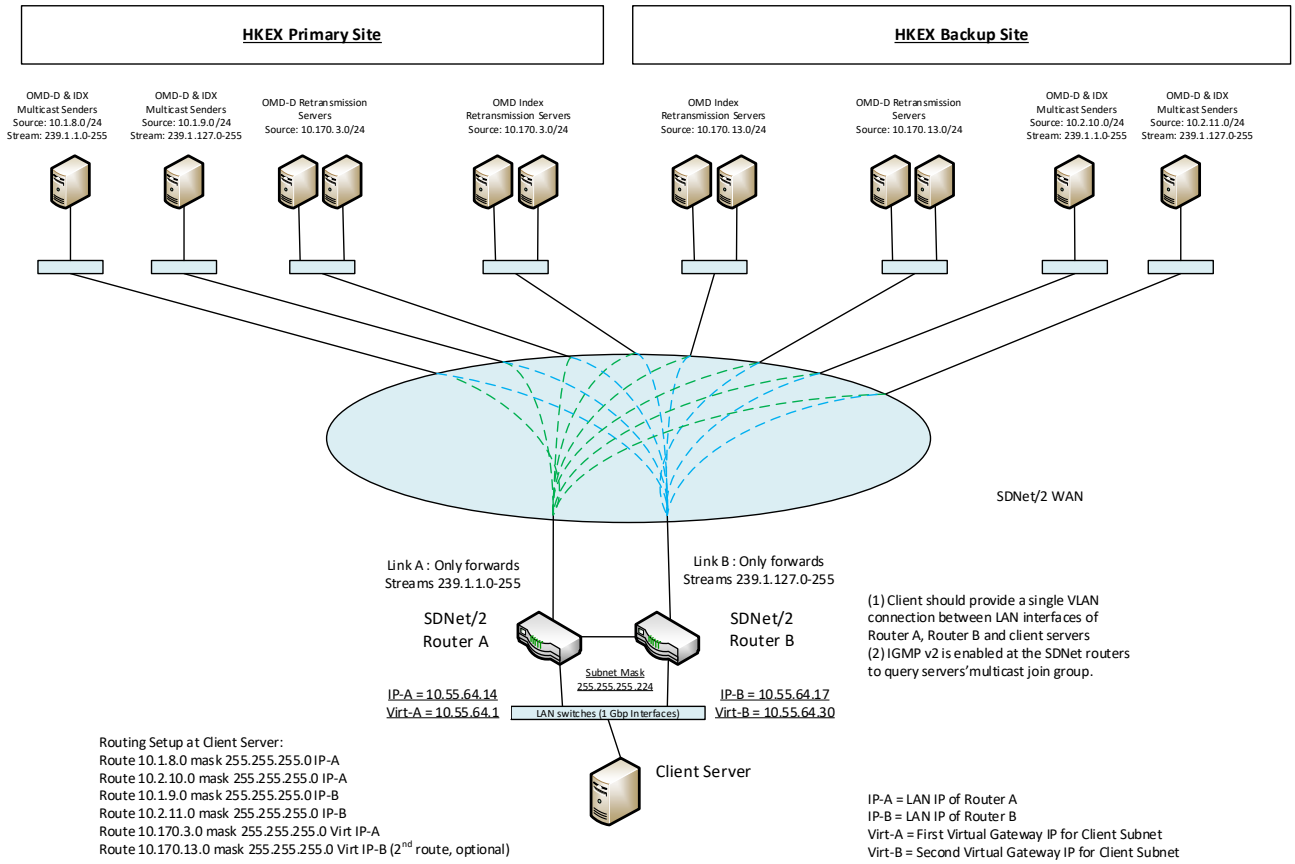
2. Configuration Information

OMD adopts multicast transmission protocol for real-time data transmission with retransmission recovery service running on Unicast. Clients are required to set correct network configurations in order to establish proper connection to the corresponding OMD multicast server and retransmission server. Below is a sample connection diagram which provides an overview of SDNet/2 network connection to OMD for reference.



OMD Network Setup with SDNet/2

For OMD connection via SDNet/2, a client system has to set up routing to the HKEX host subnets as the diagram depicted. To receive multicast stream, IGMP version 2 is employed at the SDNet/2 routers to query the multicast groups which the client system subscribes. The client system should enable the IGMP function and issue join messages to the SDNet/2 routers for the entitled multicast groups.

For OMD connection by co-location at HKEX Host Data Centre (HDC), clients are required to provide their own routers to connect to the HKEX network. The protocols used in HDC network are BGP4 and Multicast PIM sparse mode. For details, please refer to the Interface Specification on Connectivity Services and Timing Service of HKEX Hosting or contact HKEX Hosting Services team via email hostingservices@hkex.com.hk .

Since the physical speed of an SDNet/2 circuit is 1Gbps, the interface of a client end LAN switch and the client end server has to be 1Gbps in order to prevent packet drops in case of multicast packet burst. To connect with SDNet/2 routers, interface of the LAN switch should be configured with speed as "auto-sense" and duplex mode as "auto-sense" and "auto-negotiation". Then, when the link comes up, the corresponding interface of the LAN switch should learn 1Gbps and full duplex.

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The client systems are required to subscribe to the multicast addresses and port IDs for the subscribed OMD products according to multicast channel subscriptions as listed in Section 2.1 for production environment or as listed in Section 2.2 for Test environment. Clients should not subscribe to other multicast addresses and port IDs not specified in this Connectivity Guide, otherwise it will result in receiving non OMD packets.

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2.1 OMD-D Production Environment Connectivity Details

Note 1 :

In OMD-D, partition assignment follows the exact arrangement in HKATS. The partition number would base on the Market ID as below:

Partition Number	Markets ID
1	1 – 20
2	21 - 105
3	106 - 255

The above partitioning is subject to change by market operation development.

Note 2:

The below glossary applies to the following sections

SOM	Stock Option Market
Non-SOM	Non-Stock Option Market
COP	Calculated Opening Price

2.1.1 OMD Derivatives Lite (non-SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.128:51001 B: 239.1.127.128:51001	603	A: 239.1.1.154:51001 B: 239.1.127.154:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.128:51002 B: 239.1.127.128:51002	703	A: 239.1.1.154:51002 B: 239.1.127.154:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.128:51006 B: 239.1.127.128:51006	803	A: 239.1.1.154:51006 B: 239.1.127.154:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.128:51003 B: 239.1.127.128:51003	653	A: 239.1.1.154:51003 B: 239.1.127.154:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.128:51004 B: 239.1.127.128:51004	663	A: 239.1.1.154:51004 B: 239.1.127.154:51004

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Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.128:51005 B: 239.1.127.128:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.150:51000 B: 239.1.127.150:51000	696	A: 239.1.1.178:51000 B: 239.1.127.178:51000
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	137	A: 239.1.1.151:51001 B: 239.1.127.151:51001	637	A: 239.1.1.176:51001 B: 239.1.127.176:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	237	A: 239.1.1.151:51002 B: 239.1.127.151:51002	737	A: 239.1.1.176:51002 B: 239.1.127.176:51002
Derivatives Non-SOM Trade Statistic **Channel**	Trade Statistic (360)	179	A: 239.1.1.151:51003 B: 239.1.127.151:51003	679	A: 239.1.1.176:51003 B: 239.1.127.176:51003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.2 OMD Derivatives Lite (SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.133:51001 B: 239.1.127.133:51001	604	A: 239.1.1.159:51001 B: 239.1.127.159:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.133:51006 B: 239.1.127.133:51006	804	A: 239.1.1.159:51006 B: 239.1.127.159:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.133:51003 B: 239.1.127.133:51003	654	A: 239.1.1.159:51003 B: 239.1.127.159:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.133:51004 B: 239.1.127.133:51004	664	A: 239.1.1.159:51004 B: 239.1.127.159:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.133:51005 B: 239.1.127.133:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.149:51000 B: 239.1.127.149:51000	697	A: 239.1.1.179:51000 B: 239.1.127.179:51000
Derivatives SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	138	A: 239.1.1.152:51001 B: 239.1.127.152:51001	638	A: 239.1.1.177:51001 B: 239.1.127.177:51001
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	238	A: 239.1.1.152:51002 B: 239.1.127.152:51002	738	A: 239.1.1.177:51002 B: 239.1.127.177:51002
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	180	A: 239.1.1.152:51003 B: 239.1.127.152:51003	680	A: 239.1.1.177:51003 B: 239.1.127.177:51003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.3 OMD Derivatives Lite – Order Feed (snapshot)

		Snapshot Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Order Feed (Partition 1) Channel	Add Order (330)	639	A:239.1.1.180:51001 B:239.1.127.180:51001		
Derivatives Order Feed (Partition 2) Channel	Add Order (330)	739	A:239.1.1.180:51002 B:239.1.127.180:51002		
Derivatives Order Feed (Partition 3) Channel	Add Order (330)	839	A:239.1.1.180:51003 B:239.1.127.180:51003		

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2.1.4 OMD Derivatives Standard (non-SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.128:51001 B: 239.1.127.128:51001	601	A: 239.1.1.153:51001 B: 239.1.127.153:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.128:51002 B: 239.1.127.128:51002	701	A: 239.1.1.153:51002 B: 239.1.127.153:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.128:51006 B: 239.1.127.128:51006	801	A: 239.1.1.153:51006 B: 239.1.127.153:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.128:51003 B: 239.1.127.128:51003	651	A: 239.1.1.153:51003 B: 239.1.127.153:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.128:51004 B: 239.1.127.128:51004	661	A: 239.1.1.153:51004 B: 239.1.127.153:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.128:51005 B: 239.1.127.128:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.150:51000 B: 239.1.127.150:51000	691	A: 239.1.1.175:51000 B: 239.1.127.175:51000
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	134	A: 239.1.1.132:51001 B: 239.1.127.132:51001	634	A: 239.1.1.157:51001 B: 239.1.127.157:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	234	A: 239.1.1.132:51002 B: 239.1.127.132:51002	734	A: 239.1.1.157:51002 B: 239.1.127.157:51002

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Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	171	A: 239.1.1.132:51003 B: 239.1.127.132:51003	671	A: 239.1.1.157:51003 B: 239.1.127.157:51003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.5 OMD Derivatives Standard (SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.133:51001 B: 239.1.127.133:51001	602	A: 239.1.1.158:51001 B: 239.1.127.158:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.133:51006 B: 239.1.127.133:51006	802	A: 239.1.1.158:51006 B: 239.1.127.158:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.133:51003 B: 239.1.127.133:51003	652	A: 239.1.1.158:51003 B: 239.1.127.158:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.133:51004 B: 239.1.127.133:51004	662	A: 239.1.1.158:51004 B: 239.1.127.158:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.133:51005 B: 239.1.127.133:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.149:51000 B: 239.1.127.149:51000	692	A: 239.1.1.174:51000 B: 239.1.127.174:51000
Derivatives SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	135	A: 239.1.1.137:51001 B: 239.1.127.137:51001	635	A: 239.1.1.162:51001 B: 239.1.127.162:51001
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	235	A: 239.1.1.137:51002 B: 239.1.127.137:51002	735	A: 239.1.1.162:51002 B: 239.1.127.162:51002
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	172	A: 239.1.1.137:51003 B: 239.1.127.137:51003	672	A: 239.1.1.162:51003 B: 239.1.127.162:51003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.6 OMD Derivatives Premium (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.128:51001 B: 239.1.127.128:51001	601	A: 239.1.1.153:51001 B: 239.1.127.153:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.128:51002 B: 239.1.127.128:51002	701	A: 239.1.1.153:51002 B: 239.1.127.153:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.128:51006 B: 239.1.127.128:51006	801	A: 239.1.1.153:51006 B: 239.1.127.153:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.128:51003 B: 239.1.127.128:51003	651	A: 239.1.1.153:51003 B: 239.1.127.153:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.128:51004 B: 239.1.127.128:51004	661	A: 239.1.1.153:51004 B: 239.1.127.153:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.128:51005 B: 239.1.127.128:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.150:51000 B: 239.1.127.150:51000	691	A: 239.1.1.175:51000 B: 239.1.127.175: 51000
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 1)	Calculated Opening Price (364) Aggregate Order Book Update (353)	131	A: 239.1.1.131:51001 B: 239.1.127.131:51001	631	A: 239.1.1.156:51001 B: 239.1.127.156:51001

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Channel	Trade (350)				
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 2) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	231	A: 239.1.1.131:51002 B: 239.1.127.131:51002	731	A: 239.1.1.156:51002 B: 239.1.127.156:51002
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 3) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	331	A: 239.1.1.131:51003 B: 239.1.127.131:51003	831	A: 239.1.1.156:51003 B: 239.1.127.156:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.139:51000 B: 239.1.127.139:51000		
Derivatives Non-SOM Series Statistic **Channel**	Series Statistics (363)	174	A: 239.1.1.141:51001 B: 239.1.127.141:51001	674	A: 239.1.1.166:51001 B: 239.1.127.166:51001
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Implied Volatility **Channel**	Implied Volatility (367)	194	A: 239.1.1.141:51000 B: 239.1.127.141:51000	694	A: 239.1.1.166:51000 B: 239.1.127.166:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.7 OMD Derivatives Premium (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.133:51001 B: 239.1.127.133:51001	602	A: 239.1.1.158:51001 B: 239.1.127.158:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.133:51006 B: 239.1.127.133:51006	802	A: 239.1.1.158:51006 B: 239.1.127.158:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.133:51003 B: 239.1.127.133:51003	652	A: 239.1.1.158:51003 B: 239.1.127.158:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.133:51004 B: 239.1.127.133:51004	662	A: 239.1.1.158:51004 B: 239.1.127.158:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.133:51005 B: 239.1.127.133:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.149:51000 B: 239.1.127.149:51000	692	A: 239.1.1.174:51000 B: 239.1.127.174:51000
Derivatives SOM Level 2 Price, COP and Trade (Partition 1) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	132	A: 239.1.1.136:51001 B: 239.1.127.136:51001	632	A: 239.1.1.161:51001 B: 239.1.127.161:51001
Derivatives SOM Level 2 Price, COP and Trade (Partition 3) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	332	A: 239.1.1.136:51003 B: 239.1.127.136:51003	832	A: 239.1.1.161:51003 B: 239.1.127.161:51003
Derivatives SOM Trade	Trade (350)	168	A: 239.1.1.140:51000 B: 239.1.127.140:51000		

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Adjustment Channel	Trade Amendment (356)				
Derivatives SOM Series Statistic Channel	Series Statistics (363)	175	A: 239.1.1.142:51001 B: 239.1.127.142:51001	675	A: 239.1.1.167:51001 B: 239.1.127.167:51001
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Implied Volatility Channel	Implied Volatility (367)	195	A: 239.1.1.142:51000 B: 239.1.127.142:51000	695	A: 239.1.1.167:51000 B: 239.1.127.167:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.8 OMD Derivatives Full Tick (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.128:51001 B: 239.1.127.128:51001	601	A: 239.1.1.153:51001 B: 239.1.127.153:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.128:51002 B: 239.1.127.128:51002	701	A: 239.1.1.153:51002 B: 239.1.127.153:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.128:51006 B: 239.1.127.128:51006	801	A: 239.1.1.153:51006 B: 239.1.127.153:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.128:51003 B: 239.1.127.128:51003	651	A: 239.1.1.153:51003 B: 239.1.127.153:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.128:51004 B: 239.1.127.128:51004	661	A: 239.1.1.153:51004 B: 239.1.127.153:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.128:51005 B: 239.1.127.128:51005		
Derivatives Non-SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331)	121	A: 239.1.1.130:51001 B: 239.1.127.130:51001	621	A: 239.1.1.155:51001 B: 239.1.127.155:51001

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	Delete Order (332) Orderbook Clear (335) Trade (350)				
Derivatives Non-SOM Order, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	221	A: 239.1.1.130:51002 B: 239.1.127.130:51002	721	A: 239.1.1.155:51002 B: 239.1.127.155:51002
Derivatives Non-SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	321	A: 239.1.1.130:51003 B: 239.1.127.130:51003	821	A: 239.1.1.155:51003 B: 239.1.127.155:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.139:51000 B: 239.1.127.139:51000		
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.9 OMD Derivatives Full Tick (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.133:51001 B: 239.1.127.133:51001	602	A: 239.1.1.158:51001 B: 239.1.127.158:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.133:51006 B: 239.1.127.133:51006	802	A: 239.1.1.158:51006 B: 239.1.127.158:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.133:51003 B: 239.1.127.133:51003	652	A: 239.1.1.158:51003 B: 239.1.127.158:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.133:51004 B: 239.1.127.133:51004	662	A: 239.1.1.158:51004 B: 239.1.127.158:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.133:51005 B: 239.1.127.133:51005		
Derivatives SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	122	A: 239.1.1.135:51001 B: 239.1.127.135:51001	622	A: 239.1.1.160:51001 B: 239.1.127.160:51001
Derivatives SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330)	322	A: 239.1.1.135:51003 B: 239.1.127.135:51003	822	A: 239.1.1.160:51003 B: 239.1.127.160:51003

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	Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)				
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.140:51000 B: 239.1.127.140:51000		
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.144:51000 B: 239.1.127.144:51000	677	A: 239.1.1.169:51000 B: 239.1.127.169:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.144:51006 B: 239.1.127.144:51006		

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2.1.10 OMD Derivatives Trade (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Trade Channel (Partition 1)	Trade (350)	111	A: 239.1.1.129:51001 B: 239.1.127.129:51001		
Derivatives Non-SOM Trade Channel (Partition 2)	Trade (350)	211	A: 239.1.1.129:51002 B: 239.1.127.129:51002		
Derivatives Non-SOM Trade Channel (Partition 3)	Trade (350)	311	A: 239.1.1.129:51003 B: 239.1.127.129:51003		
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.139:51000 B: 239.1.127.139:51000		

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2.1.11 OMD Derivatives Trade (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Trade Channel (Partition 1)	Trade (350)	112	A: 239.1.1.134:51001 B: 239.1.127.134:51001		
Derivatives SOM Trade Channel (Partition 3)	Trade (350)	312	A: 239.1.1.134:51003 B: 239.1.127.134:51003		
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.140:51000 B: 239.1.127.140:51000		

2.1.12 OMD Index (Streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
HKEX Indices Channel	Index Definition (70) Index Data (71)	40	A: 239.1.1.7:51001 B: 239.1.127.7:51001	540	A: 239.1.1.17:51001 B: 239. 1.127.17:51001
HSI Index Channel	Index Definition (70) Index Data (71)	41	A: 239.1.1.5:51000 B: 239.1.127.5:51000	541	A: 239.1.1.15:51000 B: 239.1.127.15:51000
CSI Index Channel	Index Definition (70) Index Data (71)	42	A: 239.1.1.6:51000 B: 239.1.127.6:51000	542	A: 239.1.1.16:51000 B: 239.1.127.16:51000
S&P Index Channel	Index Definition (70) Index Data (71)	43	A: 239.1.1.7:51000 B: 239.1.127.7:51000	543	A: 239.1.1.17:51000 B: 239. 1.127.17:51000
Index DR Signal Channel	Disaster Recovery Signal (105)	49	A: 239.1.1.7:51008 B: 239.1.127.7:51008		

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2.1.13 HKEX OMD Retransmission Unicast Connectivity (For All Non-Index Channels)

A Retransmission Service is provided to recover multicast packet loss in all Non-Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **OMD-D production environment**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.121:55455
Secondary server in primary site	10.170.3.122:55455
Primary server in DR site *	10.170.13.121:55455
Secondary server in DR site *	10.170.13.122:55455

* Two servers located in DR site are also active and available for connection. Clients may connect any one of those four retransmission servers, but not concurrently.

2.1.14 HKEX OMD Index Retransmission Unicast Connectivity (For All Index Channels)

A Retransmission Service for Index is provided to recover multicast packet loss in all Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **OMD-Index Production Environment**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.61:55455
Secondary server in primary site	10.170.3.62:55455
Primary server in DR site*	10.170.13.61:55455
Secondary server in DR site*	10.170.13.62:55455

* Two servers located in DR site are also active and available for connection. Clients may connect any one of those four retransmission servers, but not concurrently.

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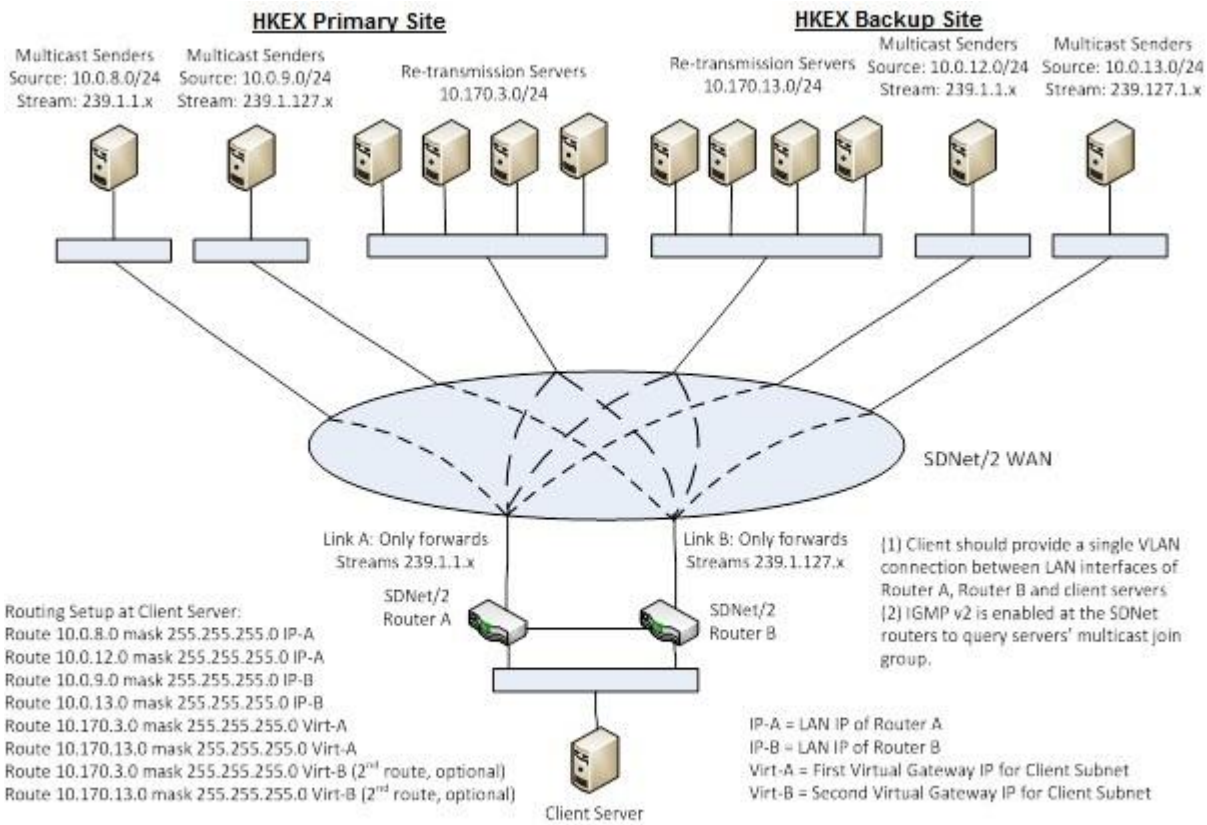
2.2 OMD-D Test Environment Connectivity Details

There are three types of OMD-D Test Environments available:

1. **OMD-D Readiness Test Environment ("OMD-D RT Environment")**
   - For OMD-D clients to perform OMD-D Readiness Test.
2. **HKATS Testing Environment (Env. 647 and Env. 641)**
   - OMD-D is available in HKATS Testing Env. 647 and Env. 641 to enable OMD-D EP clients to perform loop test with the HKATS, the HKEX Derivatives Market Trading System.
   - Clients should not connect to both HKATS Testing Env. 647 and Env. 641 concurrently unless the bandwidth of their testing connections are sufficient to support both testing environment
3. **HKATS Certification Test Environment**
   - OMD-D is available in this environment to provide market data for EP clients to perform the certification test for HKATS, the HKEX Derivatives Market Trading System.

For OMD-D Test Environments, the network configuration is basically the same as the Production Environment described in session 2.1 except that the multicast source IP segments are 10.0.8.0/24, 10.0.9.0/24, 10.0.12.0/24 and 10.0.13.0/24. The diagram of the network is shown below:



Network Configuration for Open Test Environment

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2.2.1 OMD-D Readiness Test Environment

2.2.1.1 OMD Derivatives Lite (non-SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.180:51001 B: 239.1.127.180:51001	603	A: 239.1.1.211:51051 B: 239.1.127.211:51051
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.180:51002 B: 239.1.127.180:51002	703	A: 239.1.1.211:51052 B: 239.1.127.211:51052
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.180:51006 B: 239.1.127.180:51006	803	A: 239.1.1.211:51062 B: 239.1.127.211:51062
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.180:51003 B: 239.1.127.180:51003	653	A: 239.1.1.211:51053 B: 239.1.127.211:51053
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.180:51004 B: 239.1.127.180:51004	663	A: 239.1.1.211:51054 B: 239.1.127.211:51054
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.180:51005 B: 239.1.127.180:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.189:51001 B: 239.1.127.189:51001	696	A: 239.1.1.211:51055 B: 239.1.127.211:51055
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	137	A: 239.1.1.190:51056 B: 239.1.127.190:51056	637	A: 239.1.1.211:51056 B: 239.1.127.211:51056
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3)	Calculated Opening Price (364) Aggregate Order Book Update (353)	237	A: 239.1.1.190:51057 B: 239.1.127.190:51057	737	A: 239.1.1.211:51057 B: 239.1.127.211:51057

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Channel (Compressed)					
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	179	A: 239.1.1.190:51058 B: 239.1.127.190:51058	679	A: 239.1.1.211:51058 B: 239.1.127.211:51058
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

2.2.1.2 OMD Derivatives Lite (SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.179:51001 B: 239.1.127.179:51001	604	A: 239.1.1.209:51051 B: 239.1.127.209:51051
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.179:51006 B: 239.1.127.179:51006	804	A: 239.1.1.209:51059 B: 239.1.127.209:51059
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.179:51003 B: 239.1.127.179:51003	654	A: 239.1.1.209:51053 B: 239.1.127.209:51053
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.179:51004 B: 239.1.127.179:51004	664	A: 239.1.1.209:51054 B: 239.1.127.209:51054
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.179:51005 B: 239.1.127.179:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.187:51001 B: 239.1.127.187:51001	697	A: 239.1.1.209:51055 B: 239.1.127.209:51055
Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	138	A: 239.1.1.188:51056 B: 239.1.127.188:51056	638	A: 239.1.1.209:51056 B: 239.1.127.209:51056

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Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	238	A: 239.1.1.188:51057 B: 239.1.127.188:51057	738	A: 239.1.1.209:51057 B: 239.1.127.209:51057
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	180	A: 239.1.1.188:51058 B: 239.1.127.188:51058	680	A: 239.1.1.209:51058 B: 239.1.127.209:51058
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

2.2.1.3 OMD Derivatives Lite – Order Feed (snapshot)

		Snapshot Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Market Order Feed (Partition 1) Channel	Add Order (330)	639	A: 239.1.1.211:51059 B: 239.1.127.211:51059		
Derivatives Non-SOM Market Order Feed (Partition 2) Channel	Add Order (330)	739	A: 239.1.1.211:51060 B: 239.1.127.211:51060		
Derivatives Non-SOM Market Order Feed (Partition 3) Channel	Add Order (330)	839	A: 239.1.1.211:51061 B: 239.1.127.211:51061		

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2.2.1.4 OMD Derivatives Standard (non-SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.180:51001 B: 239.1.127.180:51001	601	A: 239.1.1.201:51001 B: 239.1.127.201:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.180:51002 B: 239.1.127.180:51002	701	A: 239.1.1.201:51002 B: 239.1.127.201:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.180:51006 B: 239.1.127.180:51006	801	A: 239.1.1.201:51006 B: 239.1.127.201:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.180:51003 B: 239.1.127.180:51003	651	A: 239.1.1.201:51003 B: 239.1.127.201:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.180:51004 B: 239.1.127.180:51004	661	A: 239.1.1.201:51004 B: 239.1.127.201:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.180:51005 B: 239.1.127.180:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.189:51001 B: 239.1.127.189:51001	691	A: 239.1.1.210:51001 B: 239.1.127.210:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	134	A: 239.1.1.182:51001 B: 239.1.127.182:51001	634	A: 239.1.1.203:51001 B: 239.1.127.203:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	234	A: 239.1.1.182:51002 B: 239.1.127.182:51002	734	A: 239.1.1.203:51002 B: 239.1.127.203:51002
Derivatives Non-SOM Trade Statistic **Channel**	Trade Statistic (360)	171	A: 239.1.1.182:51003 B: 239.1.127.182:51003	671	A: 239.1.1.203:51003 B: 239.1.127.203:51003

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Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

2.2.1.5 OMD Derivatives Standard (SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.179:51001 B: 239.1.127.179:51001	602	A: 239.1.1.200:51001 B: 239.1.127.200:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.179:51006 B: 239.1.127.179:51006	802	A: 239.1.1.200:51006 B: 239.1.127.200:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.179:51003 B: 239.1.127.179:51003	652	A: 239.1.1.200:51003 B: 239.1.127.200:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.179:51004 B: 239.1.127.179:51004	662	A: 239.1.1.200:51004 B: 239.1.127.200:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.179:51005 B: 239.1.127.179:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.187:51001 B: 239.1.127.187:51001	692	A: 239.1.1.208:51001 B: 239.1.127.208:51001
Derivatives SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	135	A: 239.1.1.181:51001 B: 239.1.127.181:51001	635	A: 239.1.1.202:51001 B: 239.1.127.202:51001
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	235	A: 239.1.1.181:51002 B: 239.1.127.181:51002	735	A: 239.1.1.202:51002 B: 239.1.127.202:51002

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Derivatives SOM Trade Statistic Channel	Trade Statistic (360)	172	A: 239.1.1.181:51003 B: 239.1.127.181:51003	672	A: 239.1.1.202:51003 B: 239.1.127.202:51003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

2.2.1.6 OMD Derivatives Premium (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.180:51001 B: 239.1.127.180:51001	601	A: 239.1.1.201:51001 B: 239.1.127.201:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.180:51002 B: 239.1.127.180:51002	701	A: 239.1.1.201:51002 B: 239.1.127.201:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.180:51006 B: 239.1.127.180:51006	801	A: 239.1.1.201:51006 B: 239.1.127.201:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.180:51003 B: 239.1.127.180:51003	651	A: 239.1.1.201:51003 B: 239.1.127.201:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.180:51004 B: 239.1.127.180:51004	661	A: 239.1.1.201:51004 B: 239.1.127.201:51004
Derivatives Non-SOM	Quote Request (336)	164	A: 239.1.1.180:51005 B: 239.1.127.180:51005		

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Quote Request Channel					
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.189:51001 B: 239.1.127.189:51001	691	A: 239.1.1.210:51001 B: 239.1.127.210:51001
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	131	A: 239.1.1.186:51001 B: 239.1.127.186:51001	631	A: 239.1.1.207:51001 B: 239.1.127.207:51001
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	231	A: 239.1.1.186:51002 B: 239.1.127.186:51002	731	A: 239.1.1.207:51002 B: 239.1.127.207:51002
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	331	A: 239.1.1.186:51003 B: 239.1.127.186:51003	831	A: 239.1.1.207:51003 B: 239.1.127.207:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.198:51000 B: 239.1.127.198:51000		
Derivatives Non-SOM Series Statistic Channel	Series Statistics (363)	174	A: 239.1.1.193:51001 B: 239.1.127.193:51001	674	A: 239.1.1.214:51001 B: 239.1.127.214:51001
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Implied Volatility Channel	Implied Volatility (367)	194	A: 239.1.1.193:51000 B: 239.1.127.193:51000	694	A: 239.1.1.214:51000 B: 239.1.127.214:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

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2.2.1.7 OMD Derivatives Premium (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.179:51001 B: 239.1.127.179:51001	602	A: 239.1.1.200:51001 B: 239.1.127.200:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.179:51006 B: 239.1.127.179:51006	802	A: 239.1.1.200:51006 B: 239.1.127.200:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.179:51003 B: 239.1.127.179:51003	652	A: 239.1.1.200:51003 B: 239.1.127.200:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.179:51004 B: 239.1.127.179:51004	662	A: 239.1.1.200:51004 B: 239.1.127.200:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.179:51005 B: 239.1.127.179:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.187:51001 B: 239.1.127.187:51001	692	A: 239.1.1.208:51001 B: 239.1.127.208:51001
Derivatives SOM Level 2 Price and COP (Partition 1) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	132	A: 239.1.1.185:51001 B: 239.1.127.185:51001	632	A: 239.1.1.206:51001 B: 239.1.127.206:51001
Derivatives SOM Level 2 Price and COP (Partition 3) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	332	A: 239.1.1.185:51003 B: 239.1.127.185:51003	832	A: 239.1.1.206:51003 B: 239.1.127.206:51003

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Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.197:51000 B: 239.1.127.197:51000		
Derivatives SOM Series Statistic Channel	Series Statistics (363)	175	A: 239.1.1.192:51001 B: 239.1.127.192:51001	675	A: 239.1.1.213:51001 B: 239.1.127.213:51001
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Implied Volatility Channel	Implied Volatility (367)	195	A: 239.1.1.192:51000 B: 239.1.127.192:51000	695	A: 239.1.1.213:51000 B: 239.1.127.213:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

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2.2.1.8 OMD Derivatives Full Tick (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.180:51001 B: 239.1.127.180:51001	601	A: 239.1.1.201:51001 B: 239.1.127.201:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.180:51002 B: 239.1.127.180:51002	701	A: 239.1.1.201:51002 B: 239.1.127.201:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.180:51006 B: 239.1.127.180:51006	801	A: 239.1.1.201:51006 B: 239.1.127.201:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.180:51003 B: 239.1.127.180:51003	651	A: 239.1.1.201:51003 B: 239.1.127.201:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.180:51004 B: 239.1.127.180:51004	661	A: 239.1.1.201:51004 B: 239.1.127.201:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.180:51005 B: 239.1.127.180:51005		
Derivatives Non-SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332)	121	A: 239.1.1.184:51001 B: 239.1.127.184:51001	621	A: 239.1.1.205:51001 B: 239.1.127.205:51001

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	Orderbook Clear (335) Trade (350)				
Derivatives Non-SOM Order, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	221	A: 239.1.1.184:51002 B: 239.1.127.184:51002	721	A: 239.1.1.205:51002 B: 239.1.127.205:51002
Derivatives Non-SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	321	A: 239.1.1.184:51003 B: 239.1.127.184:51003	821	A: 239.1.1.205:51003 B: 239.1.127.205:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.198:51000 B: 239.1.127.198:51000		
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

2.2.1.9 OMD Derivatives Full Tick (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.179:51001 B: 239.1.127.179:51001	602	A: 239.1.1.200:51001 B: 239.1.127.200:51001

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Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.179:51006 B: 239.1.127.179:51006	802	A: 239.1.1.200:51006 B: 239.1.127.200:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.179:51003 B: 239.1.127.179:51003	652	A: 239.1.1.200:51003 B: 239.1.127.200:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.179:51004 B: 239.1.127.179:51004	662	A: 239.1.1.200:51004 B: 239.1.127.200:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.179:51005 B: 239.1.127.179:51005		
Derivatives SOM Order, COP and Trade (Partition 1)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	122	A: 239.1.1.183:51001 B: 239.1.127.183:51001	622	A: 239.1.1.204:51001 B: 239.1.127.204:51001
Derivatives SOM Order, COP and Trade (Partition 3)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	322	A: 239.1.1.183:51003 B: 239.1.127.183:51003	822	A: 239.1.1.204:51003 B: 239.1.127.204:51003
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.197:51000 B: 239.1.127.197:51000		

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Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.194:51000 B: 239.1.127.194:51000	677	A: 239.1.1.215:51000 B: 239.1.127.215:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.194:51006 B: 239.1.127.194:51006		

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2.2.1.10 OMD Derivatives Trade (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Trade Channel (Partition 1)	Trade (350)	111	A: 239.1.1.196:51001 B: 239.1.127.196:51001		
Derivatives Non-SOM Trade Channel (Partition 2)	Trade (350)	211	A: 239.1.1.196:51002 B: 239.1.127.196:51002		
Derivatives Non-SOM Trade Channel (Partition 3)	Trade (350)	311	A: 239.1.1.196:51003 B: 239.1.127.196:51003		
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.198:51000 B: 239.1.127.198:51000		

2.2.1.11 OMD Derivatives Trade (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Trade Channel (Partition 1)	Trade (350)	112	A: 239.1.1.195:51001 B: 239.1.127.195:51001		
Derivatives SOM Trade Channel (Partition 3)	Trade (350)	312	A: 239.1.1.195:51003 B: 239.1.127.195:51003		
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.197:51000 B: 239.1.127.197:51000		

2.2.1.12 OMD Index (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
HKEX Indices Channel	Index Definition (70) Index Data (71)	40	A: 239.1.1.27:51001 B: 239.1.127.27:51001	540	A: 239.1.1.37:51001 B: 239.1.127.37:51001
HSI Index Channel	Index Definition (70) Index Data (71)	41	A: 239.1.1.25:51000 B: 239.1.127.25:51000	541	A: 239.1.1.35:51000 B: 239.1.127.35:51000
CSI Index Channel	Index Definition (70) Index Data (71)	42	A: 239.1.1.26:51000 B: 239.1.127.26:51000	542	A: 239.1.1.36:51000 B: 239.1.127.36:51000

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S&P Index Channel	Index Definition (70) Index Data (71)	43	A: 239.1.1.27:51000 B: 239.1.127.27:51000	543	A: 239.1.1.37:51000 B: 239.1.127.37:51000
Index DR Signal Channel	Disaster Recovery Signal (105)	49	A: 239.1.1.27:51008 B: 239.1.127.27:51008		

2.2.1.13 HKEX OMD Retransmission Unicast Connectivity (For All Non-Index Channels)

A Retransmission Service is provided to recover multicast packet loss in all Non-Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **OMD-D Readiness Test environment**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.141:55455
Secondary server in primary site	10.170.3.142:55455
Primary server in DR site *	10.170.13.141:55455
Secondary server in DR site *	10.170.13.142:55455

* Two servers located in DR site are only active and available for connection in DR site failover scenario.

2.2.1.14 HKEX OMD Index Retransmission Unicast Connectivity (For All Index Channels)

A Retransmission Service for Index is provided to recover multicast packet loss in all Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **OMD-Index Readiness Test Environment**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.36:55455
Primary server in DR site	10.170.13.36:55455

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2.2.2 HKATS Testing Environment (Env. 647)

2.2.2.1 OMD Derivatives Lite (non-SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:52001 B: 239.1.127.218:52001	603	A: 239.1.1.249:52051 B: 239.1.127.249:52051
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:52002 B: 239.1.127.218:52002	703	A: 239.1.1.249:52052 B: 239.1.127.249:52052
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:52006 B: 239.1.127.218:52006	803	A: 239.1.1.249:52062 B: 239.1.127.249:52062
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:52003 B: 239.1.127.218:52003	653	A: 239.1.1.249:52053 B: 239.1.127.249:52053
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:52004 B: 239.1.127.218:52004	663	A: 239.1.1.249:52054 B: 239.1.127.249:52054
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:52005 B: 239.1.127.218:52005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:52001 B: 239.1.127.227:52001	696	A: 239.1.1.249:52055 B: 239.1.127.249:52055
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	137	A: 239.1.1.228:52056 B: 239.1.127.228:52056	637	A: 239.1.1.249:52056 B: 239.1.127.249:52056

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Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	237	A: 239.1.1.228:52057 B: 239.1.127.228:52057	737	A: 239.1.1.249:52057 B: 239.1.127.249:52057
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	179	A: 239.1.1.228:52058 B: 239.1.127.228:52058	679	A: 239.1.1.249:52058 B: 239.1.127.249:52058
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

2.2.2.2 OMD Derivatives Lite (SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:52001 B: 239.1.127.217:52001	604	A: 239.1.1.247:52051 B: 239.1.127.247:52051
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:52006 B: 239.1.127.217:52006	804	A: 239.1.1.247:52059 B: 239.1.127.247:52059
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:52003 B: 239.1.127.217:52003	654	A: 239.1.1.247:52053 B: 239.1.127.247:52053
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:52004 B: 239.1.127.217:52004	664	A: 239.1.1.247:52054 B: 239.1.127.247:52054
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:52005 B: 239.1.127.217:52005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:52001 B: 239.1.127.225:52001	697	A: 239.1.1.247:52055 B: 239.1.127.247:52055

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Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	138	A: 239.1.1.226:52056 B: 239.1.127.226:52056	638	A: 239.1.1.247:52056 B: 239.1.127.247:52056
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	238	A: 239.1.1.226:52057 B: 239.1.127.226:52057	738	A: 239.1.1.247:52057 B: 239.1.127.247:52057
Derivatives SOM Trade Statistic Channel	Trade Statistic (360)	180	A: 239.1.1.226:52058 B: 239.1.127.226:52058	680	A: 239.1.1.247:52058 B: 239.1.127.247:52058
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

2.2.2.3 OMD Derivatives Lite – Order Feed (snapshot)

		Snapshot Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Market Order Feed (Partition 1) Channel	Add Order (330)	639	A: 239.1.1.249:52059 B: 239.1.127.249:52059		
Derivatives Non-SOM Market Order Feed (Partition 2) Channel	Add Order (330)	739	A: 239.1.1.249:52060 B: 239.1.127.249:52060		
Derivatives Non-SOM Market Order Feed (Partition 3) Channel	Add Order (330)	839	A: 239.1.1.249:52061 B: 239.1.127.249:52061		

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2.2.2.4 OMD Derivatives Standard (non-SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:52001 B: 239.1.127.218:52001	601	A: 239.1.1.239:52001 B: 239.1.127.239:52001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:52002 B: 239.1.127.218:52002	701	A: 239.1.1.239:52002 B: 239.1.127.239:52002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:52006 B: 239.1.127.218:52006	801	A: 239.1.1.239:52006 B: 239.1.127.239:52006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:52003 B: 239.1.127.218:52003	651	A: 239.1.1.239:52003 B: 239.1.127.239:52003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:52004 B: 239.1.127.218:52004	661	A: 239.1.1.239:52004 B: 239.1.127.239:52004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:52005 B: 239.1.127.218:52005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:52001 B: 239.1.127.227:52001	691	A: 239.1.1.248:52001 B: 239.1.127.248:52001
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	134	A: 239.1.1.220:52001 B: 239.1.127.220:52001	634	A: 239.1.1.241:52001 B: 239.1.127.241:52001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	234	A: 239.1.1.220:52002 B: 239.1.127.220:52002	734	A: 239.1.1.241:52002 B: 239.1.127.241:52002

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Channel					
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	171	A: 239.1.1.220:52003 B: 239.1.127.220:52003	671	A: 239.1.1.241:52003 B: 239.1.127.241:52003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

2.2.2.5 OMD Derivatives Standard (SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:52001 B: 239.1.127.217:52001	602	A: 239.1.1.238:52001 B: 239.1.127.238:52001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:52006 B: 239.1.127.217:52006	802	A: 239.1.1.238:52006 B: 239.1.127.238:52006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:52003 B: 239.1.127.217:52003	652	A: 239.1.1.238:52003 B: 239.1.127.238:52003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:52004 B: 239.1.127.217:52004	662	A: 239.1.1.238:52004 B: 239.1.127.238:52004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:52005 B: 239.1.127.217:52005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:52001 B: 239.1.127.225:52001	692	A: 239.1.1.246:52001 B: 239.1.127.246:52001
Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	135	A: 239.1.1.219:52001 B: 239.1.127.219:52001	635	A: 239.1.1.240:52001 B: 239.1.127.240:52001

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Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	235	A: 239.1.1.219:52002 B: 239.1.127.219:52002	735	A: 239.1.1.240:52002 B: 239.1.127.240:52002
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	172	A: 239.1.1.219:52003 B: 239.1.127.219:52003	672	A: 239.1.1.240:52003 B: 239.1.127.240:52003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

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2.2.2.6 OMD Derivatives Premium (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:52001 B: 239.1.127.218: 52001	601	A: 239.1.1.239:52001 B: 239.1.127.239:52001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:52002 B: 239.1.127.218:52002	701	A: 239.1.1.239:52002 B: 239.1.127.239:52002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:52006 B: 239.1.127.218:52006	801	A: 239.1.1.239:52006 B: 239.1.127.239:52006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:52003 B: 239.1.127.218:52003	651	A: 239.1.1.239:52003 B: 239.1.127.239:52003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:52004 B: 239.1.127.218:52004	661	A: 239.1.1.239:52004 B: 239.1.127.239:52004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:52005 B: 239.1.127.218:52005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:52001 B: 239.1.127.227:52001	691	A: 239.1.1.248:52001 B: 239.1.127.248:52001
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353)	131	A: 239.1.1.224:52001 B: 239.1.127.224:52001	631	A: 239.1.1.245:52001 B: 239.1.127.245:52001

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	Trade (350)				
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	231	A: 239.1.1.224:52002 B: 239.1.127.224:52002	731	A: 239.1.1.245:52002 B: 239.1.127.245:52002
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	331	A: 239.1.1.224:52003 B: 239.1.127.224:52003	831	A: 239.1.1.245:52003 B: 239.1.127.245:52003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:52000 B: 239.1.127.236:52000		
Derivatives Non-SOM Series Statistic Channel	Series Statistics (363)	174	A: 239.1.1.231: 52001 B: 239.1.127.231:52001	674	A: 239.1.1.252:52001 B: 239.1.127.252:52001
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Implied Volatility Channel	Implied Volatility (367)	194	A: 239.1.1.231:52000 B: 239.1.127.231:52000	694	A: 239.1.1.252:52000 B: 239.1.127.252:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

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2.2.2.7 OMD Derivatives Premium (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:52001 B: 239.1.127.217:52001	602	A: 239.1.1.238:52001 B: 239.1.127.238:52001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:52006 B: 239.1.127.217:52006	802	A: 239.1.1.238:52006 B: 239.1.127.238:52006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:52003 B: 239.1.127.217:52003	652	A: 239.1.1.238:52003 B: 239.1.127.238:52003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:52004 B: 239.1.127.217:52004	662	A: 239.1.1.238:52004 B: 239.1.127.238:52004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:52005 B: 239.1.127.217:52005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:52001 B: 239.1.127.225:52001	692	A: 239.1.1.246:52001 B: 239.1.127.246:52001
Derivatives SOM Level 2 Price, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	132	A: 239.1.1.223:52001 B: 239.1.127.223:52001	632	A: 239.1.1.244:52001 B: 239.1.127.244:52001
Derivatives SOM Level 2 Price, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	332	A: 239.1.1.223:52003 B: 239.1.127.223:52003	832	A: 239.1.1.244:52003 B: 239.1.127.244:52003

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Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:52000 B: 239.1.127.235:52000		
Derivatives SOM Series Statistic Channel	Series Statistics (363)	175	A: 239.1.1.230:52001 B: 239.1.127. 230:52001	675	A: 239.1.1.251:52001 B: 239.1.127.251:52001
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Implied Volatility Channel	Implied Volatility (367)	195	A: 239.1. 1.230:52000 B: 239.1.127.230:52000	695	A: 239.1.1.251:52000 B: 239.1.127.251:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

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2.2.2.8 OMD Derivatives Full Tick (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:52001 B: 239.1.127.218:52001	601	A: 239.1.1.239:52001 B: 239.1.127.239:52001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:52002 B: 239.1.127.218:52002	701	A: 239.1.1.239:52002 B: 239.1.127.239:52002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:52006 B: 239.1.127.218:52006	801	A: 239.1.1.239:52006 B: 239.1.127.239:52006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:52003 B: 239.1.127.218:52003	651	A: 239.1.1.239:52003 B: 239.1.127.239:52003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:52004 B: 239.1.127.218:52004	661	A: 239.1.1.239:52004 B: 239.1.127.239:52004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:52005 B: 239.1.127.218:52005		
Derivatives Non-SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332)	121	A: 239.1.1.222:52001 B: 239.1.127.222:52001	621	A: 239.1.1.243:52001 B: 239.1.127.243:52001

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	Orderbook Clear (335) Trade (350)				
Derivatives Non-SOM Order, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	221	A: 239.1.1.222:52002 B: 239.1.127.222:52002	721	A: 239.1.1.243:52002 B: 239.1.127.243:52002
Derivatives Non-SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	321	A: 239.1.1.222:52003 B: 239.1.127.222:52003	821	A: 239.1.1.243:52003 B: 239.1.127.243:52003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:52000 B: 239.1.127.236:52000		
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

2.2.2.9 OMD Derivatives Full Tick (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:52001 B: 239.1.127.217:52001	602	A: 239.1.1.238:52001 B: 239.1.127.238:52001

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Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:52006 B: 239.1.127.217:52006	802	A: 239.1.1.238:52006 B: 239.1.127.238:52006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:52003 B: 239.1.127.217:52003	652	A: 239.1.1.238:52003 B: 239.1.127.238:52003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:52004 B: 239.1.127.217:52004	662	A: 239.1.1.238:52004 B: 239.1.127.238:52004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:52005 B: 239.1.127.217:52005		
Derivatives SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	122	A: 239.1.1.221:52001 B: 239.1.127.221:52001	622	A: 239.1.1.242:52001 B: 239.1.127.242:52001
Derivatives SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	322	A: 239.1.1.221:52003 B: 239.1.127.221:52003	822	A: 239.1.1.242:52003 B: 239.1.127.242:52003
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:52000 B: 239.1.127.235:52000		

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Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:52000 B: 239.1.127.232:52000	677	A: 239.1.1.253:52000 B: 239.1.127.253:52000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:52006 B: 239.1.127.232:52006		

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2.2.2.10 OMD Derivatives Trade (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Trade Channel (Partition 1)	Trade (350)	111	A: 239.1.1.234:52001 B: 239.1.127.234:52001		
Derivatives Non-SOM Trade Channel (Partition 2)	Trade (350)	211	A: 239.1.1.234:52002 B: 239.1.127.234:52002		
Derivatives Non-SOM Trade Channel (Partition 3)	Trade (350)	311	A: 239.1.1.234:52003 B: 239.1.127.234:52003		
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:52000 B: 239.1.127.236:52000		

2.2.2.11 OMD Derivatives Trade (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Trade Channel (Partition 1)	Trade (350)	112	A: 239.1.1.233:52001 B: 239.1.127.233:52001		
Derivatives SOM Trade Channel (Partition 3)	Trade (350)	312	A: 239.1.1.233:52003 B: 239.1.127.233:52003		
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:52000 B: 239.1.127.235:52000		

2.2.2.12 OMD Index (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
HKEX Indices Channel	Index Definition (70) Index Data (71)	40	A: 239.1.1.87:53551 B: 239.1.127.87:53551	540	A: 239.1.1.87:63551 B: 239.1.127.87:63551
HSI Index Channel	Index Definition (70) Index Data (71)	41	A: 239.1.1.85:53550 B: 239.1.127.85:53550	541	A: 239.1.1.85:63550 B: 239.1.127.85:63550
CSI Index Channel	Index Definition (70) Index Data (71)	42	A: 239.1.1.86:53550 B: 239.1.127.86:53550	542	A: 239.1.1.86:63550 B: 239.1.127.86:63550

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S&P Index Channel	Index Definition (70) Index Data (71)	43	A: 239.1.1.87:53550 B: 239.1.127.87:53550	543	A: 239.1.1.87:63550 B: 239.1.127.87:63550
Index DR Signal Channel	Disaster Recovery Signal (105)	49	A: 239.1.1.87:53558 B: 239.1.127.87:53558		

2.2.2.13 HKEX OMD Retransmission Unicast Connectivity

A Retransmission Service is provided to recover multicast packet loss in all Non-Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **HKATS Testing environment (Env. 647)**.

OMD-D at HKATS Testing Environment - *for EPs to perform End-to-end Loop Test with HKATS*	
Primary server in primary site	10.170.3.140:55455

2.2.2.14 HKEX OMD Index Retransmission Unicast Connectivity (For All Index Channels)

A Retransmission Service for Index is provided to recover multicast packet loss in all Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **HKATS Testing environment (Env. 647)**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.37:55455

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2.2.3 HKATS Testing Environment (Env. 641)

2.2.3.1 OMD Derivatives Lite (non-SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:51001 B: 239.1.127.218:51001	603	A: 239.1.1.249:51051 B: 239.1.127.249:51051
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:51002 B: 239.1.127.218:51002	703	A: 239.1.1.249:51052 B: 239.1.127.249:51052
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:51006 B: 239.1.127.218:51006	803	A: 239.1.1.249:51062 B: 239.1.127.249:51062
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:51003 B: 239.1.127.218:51003	653	A: 239.1.1.249:51053 B: 239.1.127.249:51053
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:51004 B: 239.1.127.218:51004	663	A: 239.1.1.249:51054 B: 239.1.127.249:51054
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:51005 B: 239.1.127.218:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:51001 B: 239.1.127.227:51001	696	A: 239.1.1.249:51055 B: 239.1.127.249:51055
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	137	A: 239.1.1.228:51056 B: 239.1.127.228:51056	637	A: 239.1.1.249:51056 B: 239.1.127.249:51056

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Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	237	A: 239. 1.1.228:51057 B: 239.1.127.228:51057	737	A: 239.1.1.249:51057 B: 239.1.127.249:51057
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	179	A: 239.1.1.228:51058 B: 239.1.127.228:51058	679	A: 239.1.1.249:51058 B: 239.1.127.249:51058
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

2.2.3.2 OMD Derivatives Lite (SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:51001 B: 239.1.127.217:51001	604	A: 239.1.1.247:51051 B: 239.1.127.247:51051
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:51006 B: 239.1.127.217:51006	804	A: 239.1.1.247:51059 B: 239.1.127.247:51059
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:51003 B: 239.1.127.217:51003	654	A: 239.1.1.247:51053 B: 239.1.127.247:51053
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:51004 B: 239.1.127.217:51004	664	A: 239.1.1.247:51054 B: 239.1.127.247:51054
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:51005 B: 239.1.127.217:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:51001 B: 239.1.127.225:51001	697	A: 239.1.1.247:51055 B: 239.1.127.247:51055

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Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	138	A: 239.1.1.226:51056 B: 239.1.127.226:51056	638	A: 239.1.1.247:51056 B: 239.1.127.247:51056
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	238	A: 239.1.1.226:51057 B: 239.1.127.226:51057	738	A: 239.1.1.247:51057 B: 239.1.127.247:51057
Derivatives SOM Trade Statistic Channel	Trade Statistic (360)	180	A: 239.1.1.226:51058 B: 239.1.127.226:51058	680	A: 239.1.1.247:51058 B: 239.1.127.247:51058
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

2.2.3.3 OMD Derivatives Lite – Order Feed (snapshot)

		Snapshot Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Market Order Feed (Partition 1) Channel	Add Order (330)	639	A: 239.1.1.249:51059 B: 239.1.127.249:51059		
Derivatives Non-SOM Market Order Feed (Partition 2) Channel	Add Order (330)	739	A: 239.1.1.249:51060 B: 239.1.127.249:51060		
Derivatives Non-SOM Market Order Feed (Partition 3) Channel	Add Order (330)	839	A: 239.1.1.249:51061 B: 239.1.127.249:51061		

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2.2.3.4 OMD Derivatives Standard (non-SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:51001 B: 239.1.127.218:51001	601	A: 239.1.1.239:51001 B: 239.1.127.239:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:51002 B: 239.1.127.218:51002	701	A: 239.1.1.239:51002 B: 239.1.127.239:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:51006 B: 239.1.127.218:51006	801	A: 239.1.1.239:51006 B: 239.1.127.239:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:51003 B: 239.1.127.218:51003	651	A: 239.1.1.239:51003 B: 239.1.127.239:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:51004 B: 239.1.127.218:51004	661	A: 239.1.1.239:51004 B: 239.1.127.239:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:51005 B: 239.1.127.218:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:51001 B: 239.1.127.227:51001	691	A: 239.1.1.248:51001 B: 239.1.127.248:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	134	A: 239.1.1.220:51001 B: 239.1.127.220:51001	634	A: 239.1.1.241:51001 B: 239.1.127.241:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	234	A: 239.1.1.220:51002 B: 239.1.127.220:51002	734	A: 239.1.1.241:51002 B: 239.1.127.241:51002

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Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	171	A: 239.1.1.220:51003 B: 239.1.127.220:51003	671	A: 239.1.1.241:51003 B: 239.1.127.241:51003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

2.2.3.5 OMD Derivatives Standard (SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:51001 B: 239.1.127.217:51001	602	A: 239.1.1.238:51001 B: 239.1.127.238:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:51006 B: 239.1.127.217:51006	802	A: 239.1.1.238:51006 B: 239.1.127.238:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:51003 B: 239.1.127.217:51003	652	A: 239.1.1.238:51003 B: 239.1.127.238:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:51004 B: 239.1.127.217:51004	662	A: 239.1.1.238:51004 B: 239.1.127.238:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:51005 B: 239.1.127.217:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:51001 B: 239.1.127.225:51001	692	A: 239.1.1.246:51001 B: 239.1.127.246:51001
Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	135	A: 239.1.1.219:51001 B: 239.1.127.219:51001	635	A: 239.1.1.240:51001 B: 239.1.127.240:51001
Derivatives SOM Level 2 Price and	Calculated Opening Price (364)	235	A: 239.1.1.219:51002 B: 239.1.127.219:51002	735	A: 239.1.1.240:51002 B: 239.1.127.240:51002

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COP (Partition 2 & 3) **Channel (Compressed)**	Aggregate Order Book Update (353)				
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	172	A: 239.1.1.219:51003 B: 239.1.127.219:51003	672	A: 239.1.1.240:51003 B: 239.1.127.240:51003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239. 1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

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2.2.3.6 OMD Derivatives Premium (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:51001 B: 239.1.127.218:51001	601	A: 239.1.1.239:51001 B: 239.1.127.239:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:51002 B: 239.1.127.218:51002	701	A: 239.1.1.239:51002 B: 239.1.127.239:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:51006 B: 239.1.127.218:51006	801	A: 239.1.1.239:51006 B: 239.1.127.239:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:51003 B: 239.1.127.218:51003	651	A: 239.1.1.239:51003 B: 239.1.127.239:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:51004 B: 239.1.127.218:51004	661	A: 239.1.1.239:51004 B: 239.1.127.239:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:51005 B: 239.1.127.218:51005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:51001 B: 239.1.127.227:51001	691	A: 239.1.1.248:51001 B: 239.1.127.248:51001
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	131	A: 239.1.1.224:51001 B: 239.1.127.224:51001	631	A: 239.1.1.245:51001 B: 239.1.127.245:51001

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Derivatives Non-SOM Level 2 Price and COP (Partition 2) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	231	A: 239.1.1.224:51002 B: 239.1.127.224:51002	731	A: 239.1.1.245:51002 B: 239.1.127.245:51002
Derivatives Non-SOM Level 2 Price and COP (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	331	A: 239.1.1.224:51003 B: 239.1.127.224:51003	831	A: 239.1.1.245:51003 B: 239.1.127.245:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:51000 B: 239.1.127.236:51000		
Derivatives Non-SOM Series Statistic Channel	Series Statistics (363)	174	A: 239.1.1.231:51001 B: 239.1.127.231:51001	674	A: 239.1.1.252:51001 B: 239.1.127.252:51001
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Implied Volatility Channel	Implied Volatility (367)	194	A: 239.1.1.231:51000 B: 239.1.127.231:51000	694	A: 239.1.1.252:51000 B: 239.1.127.252:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

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2.2.3.7 OMD Derivatives Premium (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:51001 B: 239.1.127.217:51001	602	A: 239.1.1.238:51001 B: 239.1.127.238:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:51006 B: 239.1.127.217:51006	802	A: 239.1.1.238:51006 B: 239.1.127.238:51006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:51003 B: 239.1.127.217:51003	652	A: 239.1.1.238:51003 B: 239.1.127.238:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:51004 B: 239.1.127.217:51004	662	A: 239.1.1.238:51004 B: 239.1.127.238:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:51005 B: 239.1.127.217:51005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:51001 B: 239.1.127.225:51001	692	A: 239.1.1.246:51001 B: 239.1.127.246:51001
Derivatives SOM Level 2 Price and COP (Partition 1) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	132	A: 239.1.1.223:51001 B: 239.1.127.223:51001	632	A: 239.1.1.244:51001 B: 239.1.127.244:51001
Derivatives SOM Level 2 Price and COP (Partition 3) **Channel**	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	332	A: 239.1.1.223:51003 B: 239.1.127.223:51003	832	A: 239.1.1.244:51003 B: 239.1.127.244:51003

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Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:51000 B: 239.1.127.235:51000		
Derivatives SOM Series Statistic Channel	Series Statistics (363)	175	A: 239.1.1.230:51001 B: 239.1.127.230:51001	675	A: 239.1.1.251:51001 B: 239.1.127.251:51001
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Implied Volatility Channel	Implied Volatility (367)	195	A: 239.1. 1.230:51000 B: 239.1.127.230:51000	695	A: 239.1.1.251:51000 B: 239.1.127.251:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

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2.2.3.8 OMD Derivatives Full Tick (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:51001 B: 239.1.127.218:51001	601	A: 239.1.1.239:51001 B: 239.1.127.239:51001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:51002 B: 239.1.127.218:51002	701	A: 239.1.1.239:51002 B: 239.1.127.239:51002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:51006 B: 239.1.127.218:51006	801	A: 239.1.1.239:51006 B: 239.1.127.239:51006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:51003 B: 239.1.127.218:51003	651	A: 239.1.1.239:51003 B: 239.1.127.239:51003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:51004 B: 239.1.127.218:51004	661	A: 239.1.1.239:51004 B: 239.1.127.239:51004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:51005 B: 239.1.127.218:51005		
Derivatives Non-SOM Order, COP and Trade (Partition 1)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	121	A: 239.1.1.222:51001 B: 239.1.127.222:51001	621	A: 239.1.1.243:51001 B: 239.1.127.243:51001

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Derivatives Non-SOM Order, COP and Trade (Partition 2)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	221	A: 239.1.1.222:51002 B: 239.1.127.222:51002	721	A: 239.1.1.243:51002 B: 239.1.127.243:51002
Derivatives Non-SOM Order, COP and Trade (Partition 3)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	321	A: 239.1.1.222:51003 B: 239.1.127.222:51003	821	A: 239.1.1.243:51003 B: 239.1.127.243:51003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:51000 B: 239.1.127.236:51000		
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

2.2.3.9 OMD Derivatives Full Tick (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:51001 B: 239.1.127.217:51001	602	A: 239.1.1.238:51001 B: 239.1.127.238:51001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:51006 B: 239.1.127.217:51006	802	A: 239.1.1.238:51006 B: 239.1.127.238:51006

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Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:51003 B: 239.1.127.217:51003	652	A: 239.1.1.238:51003 B: 239.1.127.238:51003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:51004 B: 239.1.127.217:51004	662	A: 239.1.1.238:51004 B: 239.1.127.238:51004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:51005 B: 239.1.127.217:51005		
Derivatives SOM Order, COP and Trade (Partition 1)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	122	A: 239.1.1.221:51001 B: 239.1.127.221:51001	622	A: 239.1.1.242:51001 B: 239.1.127.242:51001
Derivatives SOM Order, COP and Trade (Partition 3)	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	322	A: 239.1.1.221:51003 B: 239.1.127.221:51003	822	A: 239.1.1.242:51003 B: 239.1.127.242:51003
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:51000 B: 239.1.127.235:51000		
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:51000 B: 239.1.127.232:51000	677	A: 239.1.1.253:51000 B: 239.1.127.253:51000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:51006 B: 239.1.127.232:51006		

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2.2.3.10 OMD Derivatives Trade (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Trade Channel (Partition 1)	Trade (350)	111	A: 239.1.1.234:51001 B: 239.1.127.234:51001		
Derivatives Non-SOM Trade Channel (Partition 2)	Trade (350)	211	A: 239.1.1.234:51002 B: 239.1.127.234:51002		
Derivatives Non-SOM Trade Channel (Partition 3)	Trade (350)	311	A: 239.1.1.234:51003 B: 239.1.127.234:51003		
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:51000 B: 239.1.127.236:51000		

2.2.3.11 OMD Derivatives Trade (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Trade Channel (Partition 1)	Trade (350)	112	A: 239.1.1.233:51001 B: 239.1.127.233:51001		
Derivatives SOM Trade Channel (Partition 3)	Trade (350)	312	A: 239.1.1.233:51003 B: 239.1.127.233:51003		
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:51000 B: 239.1.127.235:51000		

2.2.3.12 OMD Index (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
HKEX Indices Channel	Index Definition (70) Index Data (71)	40	A: 239.1.1.87:53551 B: 239.1.127.87:53551	540	A: 239.1.1.87:63551 B: 239.1.127.87:63551
HSI Index Channel	Index Definition (70) Index Data (71)	41	A: 239.1.1.85:53550 B: 239.1.127.85:53550	541	A: 239.1.1.85:63550 B: 239.1.127.85:63550
CSI Index Channel	Index Definition (70) Index Data (71)	42	A: 239.1.1.86:53550 B: 239.1.127.86:53550	542	A: 239.1.1.86:63550 B: 239.1.127.86:63550

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S&P Index Channel	Index Definition (70) Index Data (71)	43	A: 239.1.1.87:53550 B: 239.1.127.87:53550	543	A: 239.1.1.87:63550 B: 239.1.127.87:63550
Index DR Signal Channel	Disaster Recovery Signal (105)	49	A: 239.1.1.87:53558 B: 239.1.127.87:53558		

2.2.3.13 HKEX OMD Retransmission Unicast Connectivity

A Retransmission Service is provided to recover multicast packet loss in all Non-Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **HKATS Testing environment (Env. 641)**.

OMD-D at HKATS Testing Environment - *for EPs to perform End-to-end Loop Test with HKATS*	
Primary server in primary site	10.170.3.145:55455

2.2.3.14 HKEX OMD Index Retransmission Unicast Connectivity (For All Index Channels)

A Retransmission Service for Index is provided to recover multicast packet loss in all Index Channels. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **HKATS Testing environment (Env. 641)**.

Retransmission Server	IP Unicast Address
Primary server in primary site	10.170.3.37:55455

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2.2.4 HKATS Certification Test Environment

2.2.4.1 OMD Derivatives Lite (non-SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:53001 B: 239.1.127.218:53001	603	A: 239.1.1. 249:53051 B: 239.1.127.249:53051
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:53002 B: 239.1.127.218:53002	703	A: 239.1.1.249:53052 B: 239.1.127.249:53052
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1. 218:53006 B: 239.1.127.218:53006	803	A: 239.1.1.249:53062 B: 239.1.127.249:53062
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:53003 B: 239.1.127.218:53003	653	A: 239.1.1.249:53053 B: 239.1.127.249:53053
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:53004 B: 239.1.127.218:53004	663	A: 239.1.1.249:53054 B: 239. 1.127.249:53054
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:53005 B: 239.1.127.218:53005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:53001 B: 239.1.127.227:53001	696	A: 239.1.1.249:53055 B: 239.1.127.249:53055
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	137	A: 239.1.1.228:53056 B: 239.1.127.228:53056	637	A: 239.1.1.249:53056 B: 239.1.127.249:53056

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Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	237	A: 239.1.1.228:53057 B: 239.1.127.228:53057	737	A: 239.1.1.249:53057 B: 239.1.127.249:53057
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	179	A: 239.1.1.228:53058 B: 239.1.127.228:53058	679	A: 239.1.1.249:53058 B: 239.1.127.249:53058
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239. 1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

2.2.4.2 OMD Derivatives Lite (SOM) – Price Depth Feed (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:53001 B: 239.1.127.217:53001	604	A: 239.1.1.247:53051 B: 239.1.127.247:53051
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:53006 B: 239.1.127.217:53006	804	A: 239.1.1.247:53059 B: 239.1.127.247:53059
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:53003 B: 239.1.127.217:53003	654	A: 239.1.1.247:53053 B: 239.1.127.247:53053
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:53004 B: 239.1.127.217:53004	664	A: 239. 1.1.247:53054 B: 239.1.127.247:53054
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:53005 B: 239.1.127.217:53005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:53001 B: 239.1.127.225:53001	697	A: 239.1.1.247:53055 B: 239.1.127.247:53055

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Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	138	A: 239.1.1.226:53056 B: 239.1.127.226:53056	638	A: 239.1.1.247:53056 B: 239.1.127.247:53056
Derivatives SOM Level 2 Price and COP (Partition 2 & 3) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	238	A: 239.1.1.226:53057 B: 239.1.127.226:53057	738	A: 239.1.1.247:53057 B: 239.1.127.247:53057
Derivatives SOM Trade Statistic Channel	Trade Statistic (360)	180	A: 239.1.1.226:53058 B: 239.1.127.226:53058	680	A: 239.1.1.247:53058 B: 239.1.127.247:53058
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

2.2.4.3 OMD Derivatives Lite – Order Feed (snapshot)

		Snapshot Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Market Order Feed (Partition 1) Channel	Add Order (330)	639	A: 239.1.1.249:53059 B: 239.1.127.249:53059		
Derivatives Non-SOM Market Order Feed (Partition 2) Channel	Add Order (330)	739	A: 239.1.1.249:53060 B: 239.1.127.249:53060		
Derivatives Non-SOM Market Order Feed (Partition 3) Channel	Add Order (330)	839	A: 239.1.1.249:53061 B: 239.1.127.249:53061		

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2.2.4.4 OMD Derivatives Standard (non-SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:53001 B: 239.1.127.218:53001	601	A: 239.1.1.239:53001 B: 239.1.127.239:53001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:53002 B: 239.1.127.218:53002	701	A: 239.1.1.239:53002 B: 239.1.127.239:53002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:53006 B: 239.1.127.218:53006	801	A: 239.1.1.239:53006 B: 239.1.127.239:53006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:53003 B: 239.1.127.218:53003	651	A: 239.1.1.239:53003 B: 239.1.127.239:53003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:53004 B: 239.1.127.218:53004	661	A: 239.1.1.239:53004 B: 239.1.127.239:53004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:53005 B: 239.1.127.218:53005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:53001 B: 239.1.127.227:53001	691	A: 239.1.1.248:53001 B: 239.1.127.248:53001
Derivatives Non-SOM Level 2 Price and COP (Partition 1) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	134	A: 239.1.1.220:53001 B: 239.1.127.220:53001	634	A: 239.1.1.241:53001 B: 239.1.127.241:53001
Derivatives Non-SOM Level 2 Price and COP (Partition 2 & 3)	Calculated Opening Price (364) Aggregate Order Book Update (353)	234	A: 239.1.1.220:53002 B: 239.1.127.220:53002	734	A: 239.1.1.241:53002 B: 239.1.127.241:53002

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Channel (Compressed)					
Derivatives Non-SOM Trade Statistic Channel	Trade Statistic (360)	171	A: 239.1.1.220:53003 B: 239.1.127.220:53003	671	A: 239.1.1.241:53003 B: 239.1.127.241:53003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

2.2.4.5 OMD Derivatives Standard (SOM) (conflated)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:53001 B: 239.1.127.217:53001	602	A: 239.1.1.238:53001 B: 239.1.127.238:53001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:53006 B: 239.1.127.217:53006	802	A: 239.1.1.238:53006 B: 239.1.127.238:53006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:53003 B: 239.1.127.217:53003	652	A: 239.1.1.238:53003 B: 239.1.127.238:53003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:53004 B: 239.1.127.217:53004	662	A: 239.1.1.238:53004 B: 239.1.127.238:53004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:53005 B: 239.1.127.217:53005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:53001 B: 239.1.127.225:53001	692	A: 239.1.1.246:53001 B: 239.1.127.246:53001
Derivatives SOM Level 2 Price and COP (Partition 1) Channel (Compressed)	Calculated Opening Price (364) Aggregate Order Book Update (353)	135	A: 239.1.1.219:53001 B: 239.1.127.219:53001	635	A: 239.1.1.240:53001 B: 239.1.127.240:53001

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Derivatives SOM Level 2 Price and COP (Partition 2 & 3) **Channel (Compressed)**	Calculated Opening Price (364) Aggregate Order Book Update (353)	235	A: 239.1.1.219:53002 B: 239.1.127.219:53002	735	A: 239.1.1.240:53002 B: 239.1.127.240:53002
Derivatives SOM Trade Statistic **Channel**	Trade Statistic (360)	172	A: 239.1.1.219:53003 B: 239.1.127.219:53003	672	A: 239.1.1.240:53003 B: 239.1.127.240:53003
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

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2.2.4.6 OMD Derivatives Premium (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:53001 B: 239.1.127.218:53001	601	A: 239.1.1.239:53001 B: 239.1.127.239:53001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:53002 B: 239.1.127.218:53002	701	A: 239.1.1.239:53002 B: 239.1.127.239:53002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1.218:53006 B: 239.1.127.218: 53006	801	A: 239.1.1.239:53006 B: 239.1.127.239:53006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:53003 B: 239.1.127.218:53003	651	A: 239.1.1.239:53003 B: 239.1.127.239:53003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:53004 B: 239.1.127.218:53004	661	A: 239.1.1.239:53004 B: 239.1.127.239:53004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:53005 B: 239.1.127.218:53005		
Non-SOM Open Interest Channel	Open Interest (366)	191	A: 239.1.1.227:53001 B: 239.1.127.227:53001	691	A: 239.1.1.248:53001 B: 239.1.127.248:53001
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353)	131	A: 239.1.1.224:53001 B: 239.1.127.224:53001	631	A: 239.1.1.245:53001 B: 239.1.127.245:53001

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	Trade (350)				
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	231	A: 239.1.1.224:53002 B: 239.1.127.224:53002	731	A: 239.1.1.245:53002 B: 239.1.127.245:53002
Derivatives Non-SOM Level 2 Price, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	331	A: 239.1.1.224:53003 B: 239.1.127.224:53003	831	A: 239.1.1.245:53003 B: 239.1.127.245:53003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:53000 B: 239.1.127.236:53000		
Derivatives Non-SOM Series Statistic Channel	Series Statistics (363)	174	A: 239.1.1.231:53001 B: 239.1.127.231:53001	674	A: 239.1.1.252:53003 B: 239.1.127.252:53003
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Implied Volatility Channel	Implied Volatility (367)	194	A: 239.1.1.231:53000 B: 239.1.127.231:53000	694	A: 239.1.1.252:53000 B: 239.1.127.252:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

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2.2.4.7 OMD Derivatives Premium (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:53001 B: 239.1.127.217:53001	602	A: 239.1.1.238:53001 B: 239.1.127.238:53001
Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:53006 B: 239.1.127.217:53006	802	A: 239.1.1.238:53006 B: 239.1.127.238:53006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:53003 B: 239.1.127.217:53003	652	A: 239.1.1.238:53003 B: 239.1.127.238:53003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:53004 B: 239.1.127.217:53004	662	A: 239.1.1.238:53004 B: 239.1.127.238:53004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:53005 B: 239.1.127.217:53005		
SOM Open Interest Channel	Open Interest (366)	192	A: 239.1.1.225:53001 B: 239.1.127.225:53001	692	A: 239.1.1.246:53001 B: 239.1.127.246:53001
Derivatives SOM Level 2 Price, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	132	A: 239.1.1.223:53001 B: 239.1.127.223:53001	632	A: 239.1.1.244:53001 B: 239.1.127.244:53001
Derivatives SOM Level 2 Price, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Aggregate Order Book Update (353) Trade (350)	332	A: 239.1.1.223:53003 B: 239.1.127.223:53003	832	A: 239.1.1.244:53003 B: 239.1.127.244:53003

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Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:53000 B: 239.1.127.235:53000		
Derivatives SOM Series Statistic Channel	Series Statistics (363)	175	A: 239.1.1.230:53001 B: 239.1.127.230:53001	675	A: 239.1.1.251:53001 B: 239.1.127.251:53001
Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Implied Volatility Channel	Implied Volatility (367)	195	A: 239.1.1.230:53000 B: 239.1.127.230:53000	695	A: 239.1.1.251:53000 B: 239.1.127.251:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

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2.2.4.8 OMD Derivatives Full Tick (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	101	A: 239.1.1.218:53001 B: 239.1.127.218:53001	601	A: 239.1.1.239:53001 B: 239.1.127.239:53001
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 2)	Series Definition Base (303) Combination Definition (305)	201	A: 239.1.1.218:53002 B: 239.1.127.218:53002	701	A: 239.1.1.239:53002 B: 239.1.127.239:53002
Derivatives Non-SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	301	A: 239.1.1. 218:53006 B: 239.1.127.218:53006	801	A: 239.1.1.239:53006 B: 239.1.127.239:53006
Derivatives Non-SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	151	A: 239.1.1.218:53003 B: 239.1.127.218:53003	651	A: 239.1.1.239:53003 B: 239.1.127.239:53003
Derivatives Non-SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	161	A: 239.1.1.218:53004 B: 239.1.127.218:53004	661	A: 239.1.1.239:53004 B: 239.1.127.239:53004
Derivatives Non-SOM Quote Request Channel	Quote Request (336)	164	A: 239.1.1.218:53005 B: 239.1.127.218:53005		
Derivatives Non-SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332)	121	A: 239.1.1.222:53001 B: 239.1.127.222:53001	621	A: 239.1.1.243:53001 B: 239.1.127.243:53001

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	Orderbook Clear (335) Trade (350)				
Derivatives Non-SOM Order, COP and Trade (Partition 2) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	221	A: 239.1.1.222:53002 B: 239.1.127.222:53002	721	A: 239.1.1.243:53002 B: 239.1.127.243:53002
Derivatives Non-SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	321	A: 239.1.1.222:53003 B: 239.1.127.222:53003	821	A: 239.1.1.243:53003 B: 239.1.127.243:53003
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:53000 B: 239.1.127.236:53000		
Derivatives Non-SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

2.2.4.9 OMD Derivatives Full Tick (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Series Definition Reference Data Channel (Partition 1)	Series Definition Base (303) Combination Definition (305)	102	A: 239.1.1.217:53001 B: 239.1.127.217:53001	602	A: 239.1.1.238:53001 B: 239.1.127.238:53001

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Derivatives SOM Series Definition Reference Data Channel (Partition 3)	Series Definition Base (303) Combination Definition (305)	302	A: 239.1.1.217:53006 B: 239.1.127.217:53006	802	A: 239.1.1.238:53006 B: 239.1.127.238:53006
Derivatives SOM Series Definition Reference Data Channel	Commodity Definition (301) Class Definition (302) Series Definition Extended (304)	152	A: 239.1.1.217:53003 B: 239.1.127.217:53003	652	A: 239.1.1.238:53003 B: 239.1.127.238:53003
Derivatives SOM Series & Market Status Channel	Market Status (320) Series Status (321) Commodity Status (322)	162	A: 239.1.1.217:53004 B: 239.1.127.217:53004	662	A: 239.1.1.238:53004 B: 239.1.127.238:53004
Derivatives SOM Quote Request Channel	Quote Request (336)	165	A: 239.1.1.217:53005 B: 239.1.127.217:53005		
Derivatives SOM Order, COP and Trade (Partition 1) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	122	A: 239.1.1.221:53001 B: 239.1.127.221:53001	622	A: 239.1.1.242:53001 B: 239.1.127.242:53001
Derivatives SOM Order, COP and Trade (Partition 3) Channel	Calculated Opening Price (364) Add Order (330) Modify Order (331) Delete Order (332) Orderbook Clear (335) Trade (350)	322	A: 239.1.1.221:53003 B: 239.1.127.221:53003	822	A: 239.1.1.242:53003 B: 239.1.127.242:53003
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:53000 B: 239.1.127.235:53000		

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Derivatives SOM Market Alert Channel	Market Alert (323)	177	A: 239.1.1.232:53000 B: 239.1.127.232:53000	677	A: 239.1.1.253:53000 B: 239.1.127.253:53000
Derivatives DR Signal Channel	Disaster Recovery Signal (105)	178	A: 239.1.1.232:53006 B: 239.1.127.232:53006		

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2.2.4.10 OMD Derivatives Trade (non-SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives Non-SOM Trade Channel (Partition 1)	Trade (350)	111	A: 239.1.1.234:53001 B: 239.1.127.234:53001		
Derivatives Non-SOM Trade Channel (Partition 2)	Trade (350)	211	A: 239.1.1.234:53002 B: 239.1.127.234:53002		
Derivatives Non-SOM Trade Channel (Partition 3)	Trade (350)	311	A: 239.1.1.234:53003 B: 239.1.127.234:53003		
Derivatives Non-SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	167	A: 239.1.1.236:53000 B: 239.1.127.236:53000		

2.2.4.11 OMD Derivatives Trade (SOM) (streaming)

		Real-time Market Data Services		Refresh Snapshot Data Services	
Multicast Service	**Contents**	**Channel ID**	**Multicast Channel Subscriptions**	**Channel ID**	**Multicast Channel Subscriptions**
Derivatives SOM Trade Channel (Partition 1)	Trade (350)	112	A: 239.1.1.233:53001 B: 239.1.127.233:53001		
Derivatives SOM Trade Channel (Partition 3)	Trade (350)	312	A: 239.1.1.233:53003 B: 239.1.127.233:53003		
Derivatives SOM Trade Adjustment Channel	Trade (350) Trade Amendment (356)	168	A: 239.1.1.235:53000 B: 239.1.127.235:53000		

2.2.4.12 HKEX OMD Retransmission Unicast Connectivity

A Retransmission Service is provided to recover lost multicast packet. Functional details of the Retransmission Service are provided in the Interface Specification. Find below the Unicast Addresses to connect to the OMD Retransmission Servers in **HKATS Certification Test environment**.

OMD-D at HKATS Certification Test Environment - *for EPs to perform HKATS* Certification Test	
Primary server in primary site	10.170.3.139:55455

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2.3 Individual Client Configuration Details

Individual clients will be provided with the following configuration details for each set of product feed subscription:

- One Retransmission User ID (Username)
- The subnet and subnet mask of the client segment
- Two unicast client allowable IP addresses for connection with re-transmission servers
- Two physical IP addresses and two Virtual IP address of SDNet/2 routers
- HSRP/VRRP groups used by SDNet/2 routers

Individual client testing configuration information will be provided separately prior to the Open Test/Readiness Test whilst the client specific production configuration information will be provided upon the client's successful completion of the Readiness Test and prior to the Market Rehearsals/Post Release Test. Please refer to Appendix B for an example of Client Configuration information.

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3. Guidelines on SDNet/2 lines / HSN connection

3.1 Mode of OMD connection

- For resilience purpose, at least 2 SDNet/2 or HSN lines are required for OMD connection either for individual OMD datafeed product or sharing among different OMD datafeed products.
- The set of 2 SDNet/2 lines is required to locate in the same location. If clients require receiving OMD data in multiple locations, 1 set of 2 SDNet/2 lines is required to install in each location.

3.2 Bandwidth Requirement

Full suite of OMD datafeed products for Derivatives Market data and respective estimated bandwidth requirements are as follows.

3.2.1 Production SDNet/2 / HSN and Testing SDNet/2 / HSN for OMD-D Readiness Test

Minimum Bandwidth Allocation Between Multicast and Unicast in Each Datafeed

Datafeed	Minimum Multicast Allocation (i.e. Real Time & Refresh) with / without the Index Feed (INDEX)[1]	Minimum Unicast Allocation[2] (i.e. Retransmission)
Derivatives Lite (D-Lite) – Non-SOM	5.5 Mbps	0.5 Mbps
D-Lite – Non-SOM + Derivatives Trade (DT)[3]	7.5 Mbps	0.5 Mbps
D-Lite – SOM	7.5 Mbps	0.5 Mbps
D-Lite – SOM + DT	9.5 Mbps	0.5 Mbps
D-Lite – Order Feed	3 Mbps	Not applicable
Derivatives Standard (DS) – Non-SOM	13 Mbps	1 Mbps
DS – Non-SOM + DT	15 Mbps	1 Mbps
DS – SOM	13 Mbps	1 Mbps
DS – SOM + DT	15 Mbps	1 Mbps
Derivatives Premium (DP) – Non-SOM[4]	49 Mbps	1 Mbps
DP – SOM[4]	129 Mbps	1 Mbps

[1] Update rate of individual index depends on respective index providers
[2] If more than 1 datafeed are subscribed in Production or Readiness Test Environment, the minimum bandwidth for unicast is 1 Mbps (0.5Mbps for D-Lite only)
[3] DT is only applicable to D-Lite and DS subscribers
[4] DP and DF Clients have to subscribe to lines with High Performance Option (HPO) to avoid potential data loss in the event of bursty traffic that could happen in the production environment.

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Derivatives Full Tick (DF) – Non-SOM[4]	49 Mbps	1 Mbps
DF – SOM[4]	129 Mbps	1 Mbps

3.2.2 Testing SDNet/2 / HSN for OMD-D HKATS Testing Environment and HKATS Certification Test Environment[1]

Minimum Bandwidth Allocation Between Multicast and Unicast in Each Datafeed

Datafeed	**Minimum Multicast Allocation** (i.e. Real Time & Refresh) with Any Combination / All of the following Complimentary Datafeed(s) a) INDEX b) DT	**Minimum Unicast Allocation[2]** (i.e. Retransmission)
D-Lite – Non-SOM	1 Mbps	0.5 Mbps
D-Lite – SOM	2.5 Mbps	0.5 Mbps
D-Lite – Order Feed	3 Mbps	Not applicable
DS – Non-SOM	1 Mbps	0.5 Mbps
DS – SOM	4.5 Mbps	0.5 Mbps
DP – Non-SOM	1.5 Mbps	0.5 Mbps
DP – SOM	6.5 Mbps	0.5 Mbps
DF – Non-SOM	1 Mbps	0.5 Mbps
DF – SOM	3.5 Mbps	0.5 Mbps

[1] The bandwidth requirement listed in this section assumes that Clients connect to only one OMD-D HKATS Testing Environment (i.e. Env. 641 or Env. 647) or one HKATS Certification Test Environment at the same time. Clients are required to subscribe a sufficient bandwidth should they plan to connect to more testing environments (if available) at the same time

[2] If more than 1 datafeed is subscribed in HKATS Testing Environment and HKATS Certification Test Environment, the minimum bandwidth for unicast is 0.5 Mbps

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3.3 Sharing of SDNet/2 lines or HSN port set

Clients may opt to use separated sets or same set of SDNet/2 lines/ HSN ports for receiving data of different OMD datafeed products and other systems, e.g. HKATS CG subject to certain limitations.

Under the current multicast transmission protocol of OMD, clients are required to establish live-live connections regardless of whether they are connecting through SDNet/2 or HSN Port in HKEX's Hosting site.

Sharing of SDNet/2 lines for different OMD datafeed products and other applications, e.g. HKATS CG is allowed and clients are required to make sure the bandwidth of the SDNet/2 lines is sufficient to support the multiple applications sharing the lines and they are aware of the potential issues for sharing of lines.

Under the Hosting setup, 1 HSN Port Set contains 2 ports which can serve the live-live connections for OMD (multicast application) and live-backup connection for other unicast application, e.g. HKATS CG.

Clients who would like to establish new HSN connection for other unicast applications which are in live-live mode may need to apply for an additional set of HSN circuits, or consider another solution that meets the same resilience requirement.

In addition, clients should note the following policies on sharing of SDNet/2 or HSN lines for OMD datafeed products:

- Sharing of same set of production SDNet/2 / HSN circuits for **more than 1 OMD datafeed products of different markets** (i.e. securities market datafeed and derivatives market datafeed) **is allowed.**

- Sharing of the same SDNet/2 / HSN circuits for both product and testing purposes is **NOT ALLOWED**.

- **Exchange Participants** who would like to **share the same SDNet/2 circuits with trading traffic (orders and trades) and market data traffic** are however **only** allowed to do so if all the traffic **on** the circuits belongs to **the same market** (i.e. either securities market or derivatives market). OMD-Index, which is market neutral, can be carried on the same circuits with securities market or derivatives market. For example, Exchange Participants of derivatives market may use the same SDNet/2 circuits for their access to DS, OMD-Index and HKATS CG.

- <u>Clients should note and consider the followings if they are going to adopt shared line mode</u>:
  i) In case of failure/interruption of the shared circuits, all datafeed products using this set of circuits will be affected.
  ii) Troubleshooting for network related issues (e.g. performance, latency or packet loss etc.) will be much more difficult and time consuming and assistance from network carriers and HKEX will be limited in such troubleshooting. Clients must accept this risk in making the line sharing decision.
  iii) Due to the difference in operating hours and testing windows between securities and derivatives markets, clients should make sure any maintenance/testing of one of the systems does not affect the rest of the systems sharing the same set of circuits.

3.4 Bandwidth for shared SDNet/2 lines or HSN port set

i) Shared SDNet/2 / HSN circuits must have sufficient bandwidth to support the data transmission of multiple products/devices. Please see below examples for reference:

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Example 1: Sharing of a set of SDNet/2 lines for DS (SOM + Non-SOM) and DF (SOM) in Production Environment:
The minimum bandwidth requirements for multicast of DS (Non-SOM), DS (SOM) and DF (SOM) are 13 Mbps, 13 Mbps and 129 Mbps respectively while the minimum bandwidth requirement for unicast of multiple datafeeds is 1 Mbps, a set of SDNet/2 lines with 1 Gbps will be required. (Actual bandwidth requirement is 156 Mbps and minimum incremental bandwidth threshold over 100Mbps for SDNet/2 lines is 1Gbps)

Example 2: Sharing of a set of SDNet/2 lines for DS (SOM + Non-SOM) and OMD D-Lite (SOM + Non-SOM) + D-Lite Order feed in Production Environment:
The minimum bandwidth requirements for multicast of DS (SOM + Non-SOM) and D-Lite (SOM + Non-SOM) are 26 Mbps and 16 Mbps respectively while the , minimum bandwidth requirement for unicast of multiple datafeeds is 1 Mbps, a set of SDNet/2 lines with 50 Mbps will be required. (Actual bandwidth requirement is 43 Mbps and minimum incremental bandwidth threshold is 10 Mbps for SDNet/2 lines of 10 Mbps-100 Mbps)

Example 3: Sharing of a set of SDNet/2 lines for DF (SOM + Non-SOM) and HKATS CG in Production Environment:
The minimum bandwidth requirements for multicast of DF (SOM + Non-SOM) is 178 Mbps while the, minimum bandwidth requirement for unicast of multiple datafeeds is 1 Mbps. The bandwidth requirement for HKATS CG is 10 Mbps. Therefore, a common set of SDNet/2 lines with 1 Gbps will be required.
(Actual bandwidth requirement is 179Mbps and minimum incremental bandwidth threshold over 100Mbps for SDNet/2 lines is 1Gbps)

Example 4: Sharing of a set of SDNet/2 lines for DF (SOM + Non-SOM) and SS in OMD-C[1] in Production Environment:
The minimum bandwidth requirements for multicast of DF (SOM + Non-SOM) and SS in OMD-C are 178 Mbps and 15 Mbps respectively. Whereas the minimum bandwidth requirement for unicast of multiple datafeeds of OMD-D and SS in OMD-C are 1Mbps and 0.2 Mbps respectively. Therefore, a common set of SDNet/2 lines with 1 Gbps will be required.
(Actual bandwidth requirement is 194.2 Mbps and minimum incremental bandwidth threshold over 100Mbps for SDNet/2 lines is 1Gbps)

ii) Clients can allocate bandwidth of the shared lines to different products as they wish as long as the bandwidth allocated to each datafeed product meets the estimated bandwidth requirement specified.

3.5 SDNet/2 High Performance Option

Clients who are required to install circuits with a bandwidth of 30 Mbps or above for connecting to HKEX systems have to subscribe to lines with High Performance Option (HPO) to avoid potential data loss in the event of bursty traffic that could happen in the production environment.

High Performance Option of SDNet/2 which transmits data in relatively high packet rates is required for clients who subscribe to OMD streaming feeds, i.e. DP and DF. OMD DS provides conflated price level information, and the message rate sent for the conflation period is relatively not high, so HPO is not necessary.

Please refer to Appendix A for details on high performance options provided by different SDNet/2 providers.

[1] For OMD-C connectivity information, please refer to the Connectivity Guide for OMD Securities Market and Index Datafeed Products (OMD-C).

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4. Other Guidelines on OMD Connections

4.1 Additional Login IDs/Client IP addresses for Unicast Retransmission Service

Direct connection clients will get one set of login ID with two IP addresses for retransmission service per OMD-D datafeed subscription. That means, clients subscribing to one set of DP feed and one set of DF feed will get two login IDs each with two IP addresses. These login IDs would be generic ID where each ID can be used to recover either the DP and DF missing data rather than tied to the respective datafeed product associated with that login ID provided that the same pair of SDNet/2 or HSN circuits is used for receiving the data from both DP and DF.

Exchange Participants who are entitled to receive two sets of complimentary DS feed via two different pairs of circuits when migrating to HKATS CG would also be entitled to one complimentary login ID per set of DS feed which is also a generic ID.

To facilitate different clients' internal setup or operational requirement, an additional set of login ID and with/without IP addresses for retransmission service can be offered to clients at a cost on a per request basis.

4.2 Installation of SDNet/2 and HSN lines

4.2.1 SDNet/2 lines

Clients are required to contact the SDNet/2 Accredited Vendors for installation of SDNet/2 lines for OMD connection. Details of the SDNet/2 Accredited Vendors and reference costs charged by different SDNet/2 Accredited Vendors can be found in Appendix A.

4.2.2 HSN lines

Clients who will use HKEX's Hosting Service for OMD connection should contact our Hosting Service team directly for details on the HSN lines.

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Appendix A – SDNet/2 Accredited Vendors Information

SDNet/2 services are provided by Accredited Vendors for the provision of circuits from EP/CP/IV locations to HKEX's data centres.

To become an Accredited Vendor, the Vendor's SDNet/2 service must comply with the technical requirements set out by HKEX. The compliance of these technical requirements ensures the Accredited Vendor will deliver a stable, reliable and high quality networking services to the EPs/CPs/IVs.

Two Accredited Vendors have been selected and accredited to provide SDNet/2 network services. These vendors are (in alphabetical order):

- Hong Kong Telecommunications (HKT) Limited (also known as PCCW)
- HKBN Enterprise Solutions HK Limited (HKBNES)

For details of SDNet/2 circuit price information / technical specification / service level, please refer to Price Information / Technical Specification / Service Level of SDNet/2 posted on HKEX website.

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Appendix B Sample Client Configuration Information

Client End Network Information (Sample):

1	Network	SDNet/2
2	Client Name	*CLIENT1*
3	OMDD LAN Subnet	*10.55.64.0*
4	OMDD LAN Subnet Mask	*255.255.255.224*
5	Client Allowable IP Address 1 for retransmission	*10.55.64.2*
6	Client Allowable IP Address 2 for retransmission	*10.55.64.29*
7	Primary Circuit Number	*808311*
8	Subscriber Router A LAN IP Address (IP-A)	*10.55.64.14*
9	Secondary Circuit Number	*808312*
10	Subscriber Router B LAN IP Address (IP-B)	*10.55.64.17*
11	Subscriber OMDD LAN 1st Virtual Gateway IP Address (Virt-A)	*10.55.64.1*
12	HSRP Group Number used by SDNet/2 Router for Virt-A	*14*
13	Subscriber OMDD LAN 2nd Virtual Gateway IP Address (Virt-B)	*10.55.64.30*
14	HSRP Group Number used by SDNet/2 Router for Virt-B	*17*
15	Multicast Protocol used by SDNet/2 Routers	*IGMPv2*
16	SDNet/2 Router Physical Interface for OMDD	*Please refer to the port assignment provided by the network carrier*
17	SDNet/2 Router Port Speed for OMDD	*Auto Sense up to 1Gbps*
18	SDNet/2 Router Port Duplex Mode for OMDD	*Auto Negotiation*
19	IP address ranges usable by Clients for Multicast transmission (IP addresses outside these ranges reserved) Note: Clients can use same set of addresses for Unicast retransmission for the multicast transmission)	*10.55.64.2,* *10.55.64.9-13* *10.55.64.29,* *10.55.64.18-22*

Host End Network Information-(non-IDX and IDX source) (Sample):

1	Multicast Source Segment of Stream A in Primary Site forwarded by Client SDNet/2 Router A	*10.1.8.0/24*
2	Multicast Source Segment of Stream A in Backup Site forwarded by Client SDNet/2 Router A	*10.2.10.0/24*
3	Multicast Source Segment for multicast stream B in Primary Site forwarded by Client SDNet/2 Router B	*10.1.9.0/24*
4	Multicast Source Segment for multicast stream B in Backup Site forwarded by Client SDNet/2 Router B	*10.2.11.0/24*
5	Primary Site Primary Retransmission Server IP Address	*Please refer to the latest OMD-D Connectivity Guide for the information*
6	Primary Site Primary Retransmission Server TCP Port Number	
7	Primary Site Secondary Retransmission Server IP Address	
8	Primary Site Secondary Retransmission Server TCP Port Number	
9	Backup Site Primary Retransmission Server IP Address	
10	Backup Site Primary Retransmission Server TCP Port Number	
11	Backup Site Secondary Retransmission Server IP Address	
12	Backup Site Secondary Retransmission Server TCP Port Number	

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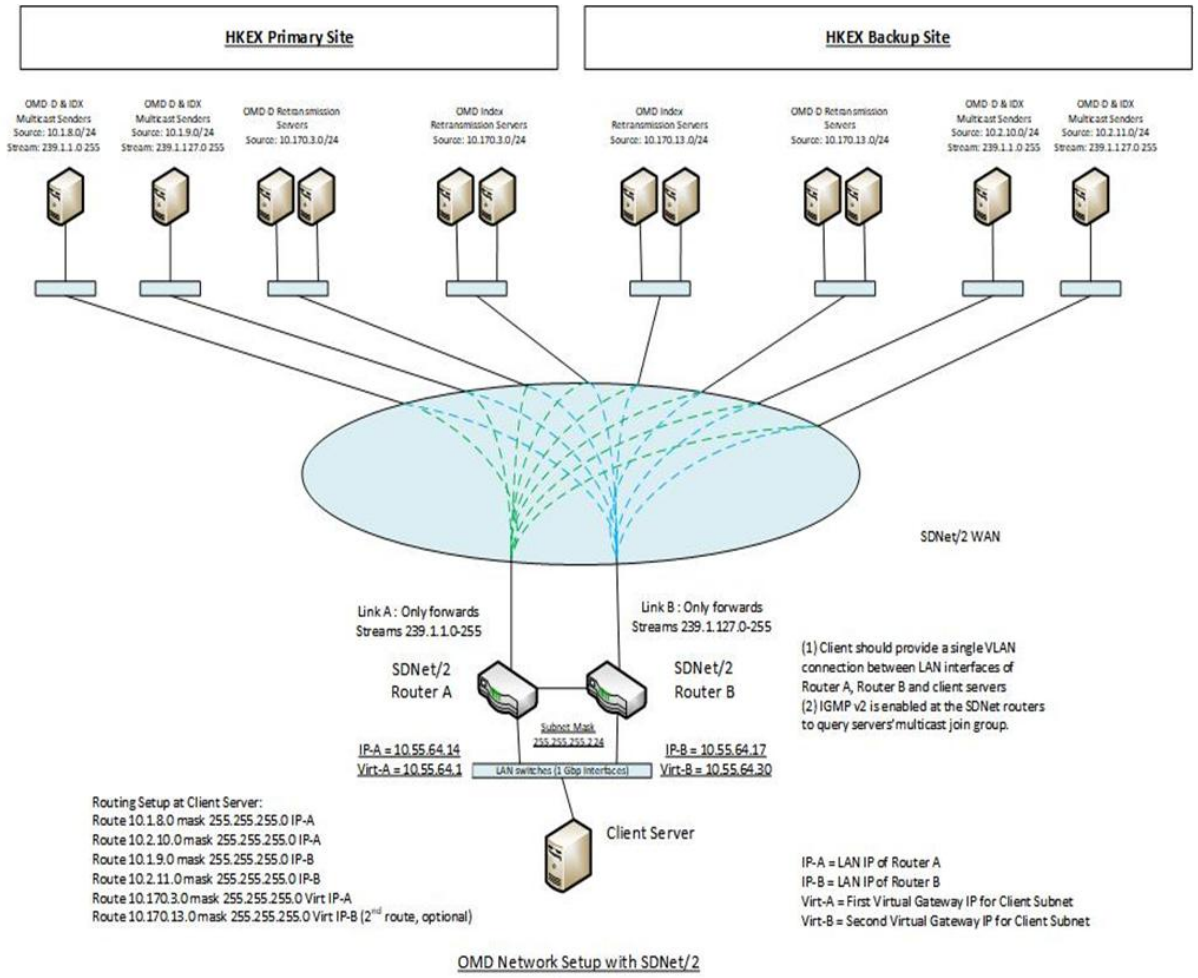

OMD Network Setup with SDNet/2

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DOCUMENT HISTORY

Document Version	Date	Change Description
1.0	2 August 2013	First issue
1.1	2 January 2014	Section 2.1.1, 2.1.2 – Remove channel assignment for Derivatives Non-SOM Trade Statistics Supplement Channel Section 2.1.3, 2.1.4 – Remove channel assignment for Derivatives Non-SOM Series Statistics Supplement Channel Section 2.2 – Add elaboration on availability of OMD-D Test Environments Section 2.2.1 to 2.2.8 – Update channel assignments Section 2.2.9 – Update IP unicast addresses Section 3.2.1, 3.2.2 – Update table for bandwidth requirements Section 3.4 – Update examples Section 3.5 – Add clarification for High Performance Option Appendix B – Update the sample for Host End Network Information
1.2	17 January 2014	Section 2.1.1 to 2.1.4 and 2.2.1 to 2.2.4 – Update channel assignments for Open Interest Channel Section 2.1.7, 2.1.8, 2.2.7, 2.2.8 – Rename OMD Derivatives Trade Tick to OMD Derivatives Trade Section 2.2.9 – Update IP unicast addresses
1.3	8 May 2014	Section 3.2.1 – Update bandwidth requirements
1.4	22 Aug 2014	Section 3.2.1 – Clarify HPO requirements Section 3.5 – Add clarification for High Performance Option
1.5	20 Oct 2015	Section 3.2.1 – Update bandwidth requirements Section 3.3 - Remove obsolete condition Section 3.4 – Updated examples Section 3.5 – Add clarification statement for HPO
1.6	15 December 2015	Appendix A – SDNet/2 Accredited Vendors Information
1.7	22 January 2016	Section 2 (across sub-sections) – Add information on the new dedicated channel for the new Disaster Recovery Signal (105) message

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<tr><th>Effective Date</th><th>Changes</th></tr>
<tr><td>1 February 2018</td><td>• Section 2.2 – Separate OMD-D Test Environment into OMD-D Readiness Test Environment, HKATS Testing Environment (Current Production Version) and HKATS Testing Environment (Phase 1 Changes to OMD-D for HKATS/DCASS Upgrade Version)
• Section 2.2 – Add connectivity details for HKATS Testing Environment for Phase 1 Changes to OMD-D for HKATS/DCASS Upgrade Version</td></tr>
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<tr><td>30 April 2018</td><td>• Remove HKATS Testing Environment (Current Production Version) in Section 2.2.2
• Rename HKATS Testing Environment (Phase 1 Changes to OMD-D for HKATS/DCASS Upgrade Version) to HKATS Testing Environment in Section 2.2.3
• Rename “Hutchison Global Communications Limited” to “HGC Global Communications Limited” and update the link in Appendix A</td></tr>
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<tr><td>15 May 2018</td><td>• Section 2.2 – Add connectivity details for HKATS Testing Environment for Phase 2 Changes to OMD-D for HKATS/DCASS Upgrade Version
• Section 2.2.2 – Update port number from “51006” to “52006” for Channel 178</td></tr>
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<tr><td>1.11</td><td>24 July 2018</td><td>
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<tr><td>24 July 2018</td><td>• Section 2.2 – Add connectivity details for HKATS Certification Test Environment (under Phase 2 Changes to OMD-D for HKATS/DCASS Upgrade Version)
• Section 3.2.1 – Add the details of bandwidth allocation between multicast and unicast in production in each datafeed</td></tr>
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<tr><td>Immediate</td><td>Update of Information
• Remove the Section of HKATS Testing Environment (Current Production Version)
• Section 3.2.1 and 3.2.2 – Provide additional information for bandwidth allocation
Section 3.4 – Revise examples for bandwidth requirement calculation
Merge with OMD-D D-Lite Connectivity Guide
• Section 2.1.1 to 2.1.3 – Add connectivity information for D-Lite in the production environment
• Section 2.2.1.1 to 2.2.1.3 – Add connectivity information for D-Lite in the Readiness Test environment</td></tr>
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		• Section 2.2.2.1 to 2.2.2.3 – Add connectivity information for D-Lite in the HKATS Testing environment • Section 2.2.3.1 to 2.2.3.3 – Add connectivity information for D-Lite in the HKATS Certification Test environment •
1.13	17 December 2019	**Effective Date**: 4 January 2020 **Changes**: **Update of Information** • Remove EAS Channel in all Sections EAS
1.14	13 May 2020	**Effective Date**: 27 Jun 2020 **Changes**: **Update Bandwidth** • Section 3.2.1 – Update the multicast bandwidth requirement for DF (Non SOM) from 24Mbps to 44Mbps • Section 3.4 – Update the bandwidth figures in examples **Effective Date**: Immediate **Changes**: **Update of Information** • Appendix A – Remove HGC Global Communciations Limited and rename Wharf T&T Limited to HKBN Enterprise Solutions HK Limited
1.15	18 Mar 2021	**Effective Date**: Upon the launch of Resilience Model Enhancement **Changes**: **Update on Resilience Model Enhancement** • Section 2.1.12 and 2.2.1.12 – Add a remark for retransmision server at DR site 2.1.12
1.16	21 May 2021	**Effective Date**: Upon the launch of additional OMD-D partitions due to additional matching engines **Changes**: **Updates on Addition of Partitions** • Section 2.1 – Revise the Note 1 for Partition assignment • Section 2.1, 2.2.1 and 2.2.4 – Introduce Partition 3 by adding multicast IP addresses and ports for D-Lite (Non-SOM), D-Lite (Order Feed), DS (Non-SOM), DP (Non-SOM), DF (Non-SOM) and DT (Non-SOM) • Section 2.1, 2.2.1 and 2.2.4 – Remove Partition 2 related multicast IP addresses and ports for D-Lite (SOM), DS (SOM), DP (SOM), DF (SOM) and DT (SOM) • Section 2.1, 2.2.1 and 2.2.4 – Revise multicast IP address and port for Channel 174, 175, 674 and 675 for DP (Non-SOM) and DP (SOM) • Section 2.2.3 - Add connectivity details for HKATS Testing Environment for Version of Additional Matching Engines in HKATS

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<tr><td>Upon the rollout date of new DP and DF minimum bandwidth requirement</td><td>Update of Information
• Section 3.2.1 - Update bandwidth requirement
• Section 3.4 – Update the bandwidth requirement in examples</td></tr>
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• Section 2.1.12, 2.2.1.12, 2.2.2.12, 2.2.3.13, 3.3 & 3.4 – Removed the wording “HKEX”
• Section 1 - Added description for target readers
• Section 3.2.2 – Footnote (1)</td></tr>
<tr><td>Immediate</td><td>Add a new section for the connectivity details for HKATS Testing Environment (Env. 641)
• Section 2.2 and 2.2.3</td></tr>
<tr><td>Immediate</td><td>Indication of Compression on Channel 135, 635, 138 and 168
• Housekeeping by adding indication of Compression for channels in Section 2.1 and 2.2</td></tr>
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<tr><td>1.20</td><td>21 May 2024</td><td>
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<tr><th>Effective Date</th><th>Changes</th></tr>
<tr><td>Upon the launch of OMD Index Feed Enhancement</td><td>Enhancement of OMD Index Datafeed
• Sections 2.1.12 - 2.1.14, 2.2.1.12 - 2.2.1.14, 2.2.2.12 - 2.2.2.14 and 2.2.3.12 - 2.2.3.14 – OMD Index multicast and retransmission connectivity details
• Appendix B – Updated OMD Index connectivity details in Sample Client Configuration Information</td></tr>
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<tr><td>1.21</td><td>22 Dec 2025</td><td>
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<tr><th>Effective Date</th><th>Changes</th></tr>
<tr><td>Upon the launch of new multicast channels in SOM datafeed</td><td>Introduction of New Multicast Channels in SOM datafeed
• Sections 2.1 and 2.2 – Add new mulicast channels in all SOM datafeeds</td></tr>
<tr><td>Upon the launch of compression mechanism in D-Lite and DS (Non-SOM)</td><td>Indication of Compression on Channels in D-Lite and DS (Non-SOM)
• Sections 2.1.1, 2.2.1.1, 2.2.2.1, 2.2.3.1 and 2.2.4.1 – Channels 137, 237, 637, 737 for D-Lite (Non-SOM)
• Sections 2.1.4, 2.2.1.4, 2.2.2.4, 2.2.3.4 and 2.2.4.4 – Channels 134, 234, 634 and 734 for DS (Non-SOM)</td></tr>
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<tr><td>1.22</td><td>30 Dec 2025</td><td>
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<tr><td>Upon the rollout date of new DP and DF minimum bandwidth requirement</td><td>Update of Information
• Section 3.2.1 - Update bandwidth requirement
• Section 3.4 – Update the bandwidth requirement in examples</td></tr>
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<tr><th>Effective Date</th><th>Changes</th></tr>
<tr><td>Immediate</td><td>Housekeeping changes:
• Section 2.2.1.14, 2.2.3.3, 2.2.3.6</td></tr>
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<tr><td>1.24</td><td>21 Aug 2026</td><td>
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<tr><td>Upon the launch of HKEX Indices</td><td>Introduction of HKEX Indices
• Sections 2.1.12, 2.2.1.12, 2.2.2.12 and 2.2.3.12 – Add Channel 40 for HKEX Indices Channel</td></tr>
<tr><td>31 Oct 2026</td><td>Removal of S&P Indices
Sections 2.1.12, 2.2.1.12, 2.2.2.12 and 2.2.3.12 – Remove Channel 43 for S&P Indices Channel</td></tr>
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<tr><td>1.25</td><td>12 Oct 2026</td><td>
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<tr><th>Effective Date</th><th>Changes</th></tr>
<tr><td>Immediate</td><td>Clarification
• Section 2.2.1.13 – Clarification on the availability of retransmission servers in DR site in Readiness Test Environment</td></tr>
<tr><td>Immediate</td><td>Retain Channel 43 and 543 for future S&P Index
• Sections 2.1.12, 2.2.1.12, 2.2.2.12 and 2.2.3.12 – Retain Channel 43 and 543 for S&P Indices Channel</td></tr>
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