



BOLTPLUS Connectivity

Manual

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1 Introduction

As an Exchange Participant, you have a range of alternatives to connect to our markets. BSE Exchange interfaces offer hardware independence, high levels of customization and flexibility. Our portfolio of connectivity alternatives is designed to meet the needs of a variety of users, from low-latency program trading users to cliental trading business models. With this broad offering, you can select which connectivity solution best suits your individual needs. Every business user has different needs, we designed a customized approach to ensure that you can choose the connectivity alternatives based on your unique business needs.

The sections below describe the Interactive interface and various market data interfaces that is offered to the market participants.

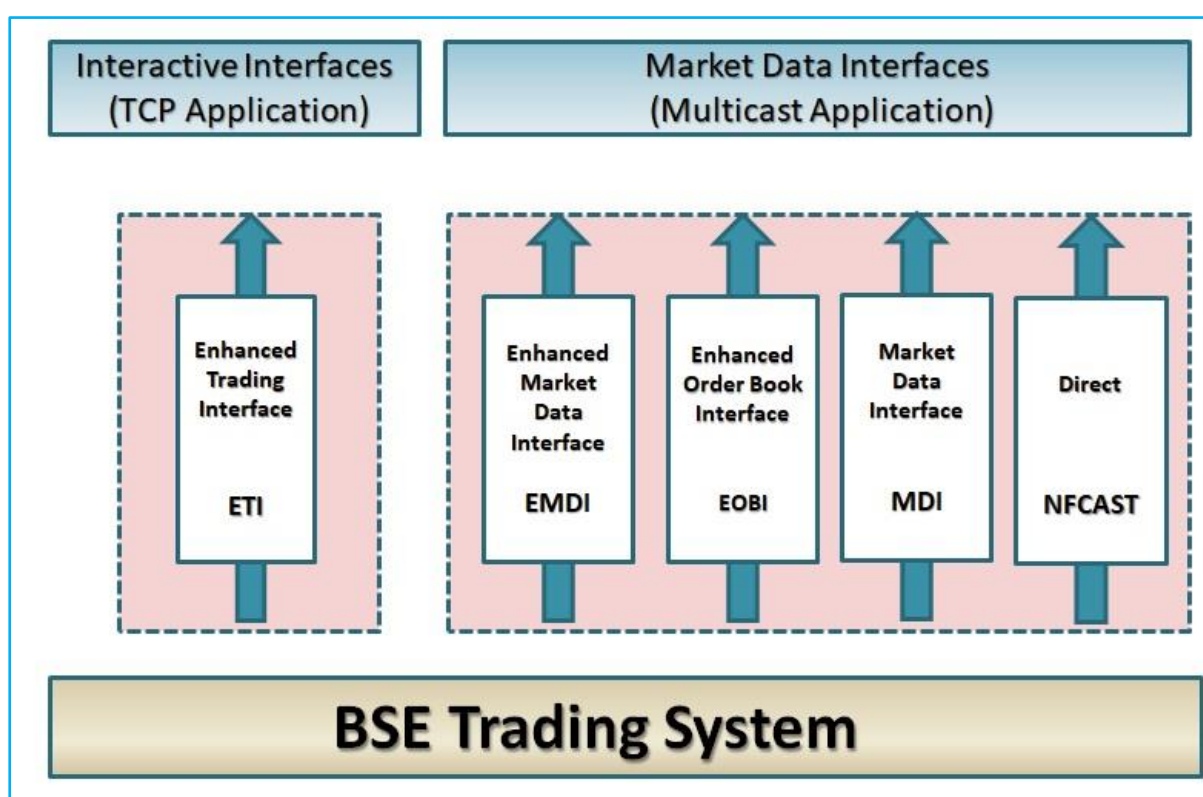


Figure 1: Trading Interface landscape

2 Interactive Interfaces

BSE offers only one interactive interface to connect to BOLTPLUS system. The interface is platform independent and offers wide flexibility in terms of implementation. **The legacy IML interface supported by exchange is discontinued.**

2.1 BSE Enhanced Trading Interface (BSE ETI)

The BSE ETI is the high-performance, low-latency trading interface designed for Participants that require optimal performance and customization. This interface supports full trading functionality, drop copy and risk alerts. The communication supported in this interface is in binary format.

The ETI is an asynchronous message-based interface. A connection between participants and exchange is established via a TCP/IP connection. The interface is session oriented. A session is established between the participants' machine and ETI gateway.

In order to establish a session with a trading gateway, a TCP/IP connection to a connection gateway must be established first. The connection gateway provides the connection parameters for the assigned primary and secondary gateway to be used for trading purposes. The connectivity to exchange is a 3-step process and the process is described below

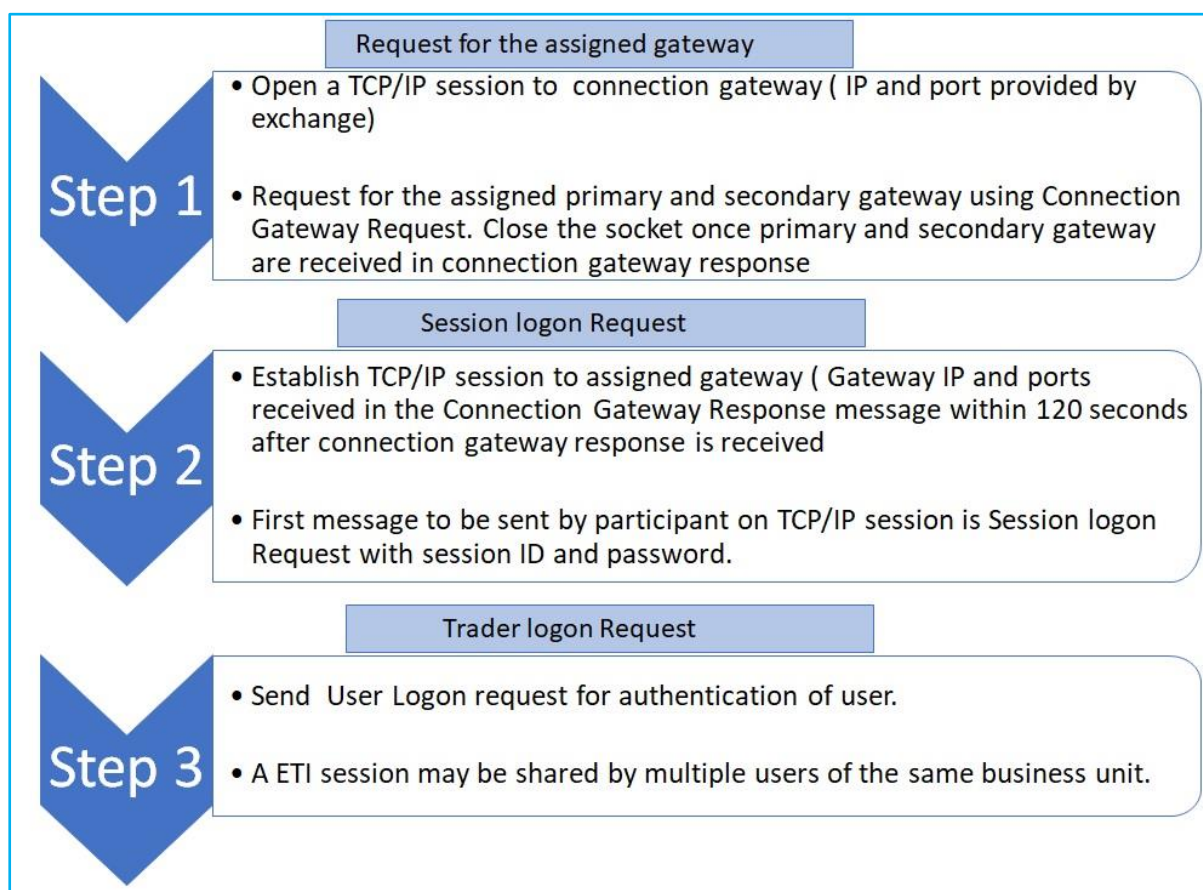


Figure 2: The TCP/IP connection flow of ETI connection

The gateway infrastructure of BSE is built redundantly with set of gateways including a connection gateway, trading gateways for low frequency (LF) sessions and trading gateways for high frequency (HF) sessions.

For each Session ID a pair of primary and secondary gateway remains constant every day. The pair of gateways are provided to each session in the Connection Gateway Response message. Though the pair remains constant the member application cannot directly connect to primary or secondary gateway. The first connection is mandatorily required to be made to the connection gateway IP published by the exchange.

The pair of primary and secondary gateway may remain constant however periodically, exchange does redistribution of connections on gateways based on the load thus the pair of primary and secondary gateway may or may not change after redistribution.

It is highly recommended that the provision for all gateways are made in member network based on the routes provided in the range provided in the section [Routes](#)

3 Market Data Streams

BSE support broadly two category of market data interfaces which are designed for low bandwidth client and high bandwidth clients.

3.1 Low Bandwidth Interfaces

The low bandwidth interfaces include market data interfaces whose bandwidth consumption is capped by exchange to less than 2MBPS. These interfaces provide netted price level data only. They include the following interfaces

3.1.1 BSE Market Data Interface (MDI)

This interface provides netted price level aggregated market data using multicast technology. The data is in FAST FIX format. The data for all partitions are provided on same feed.

3.1.2 BSE Direct NFOCAST

This interface provides netted price level aggregated market data using multicast technology. The data is in proprietary binary format. The data for all partitions are provided on same feed.

3.2 High Bandwidth Interfaces

The high bandwidth interfaces include market data interfaces whose bandwidth consumption is not capped by exchange, and it varies from 10 MBPS to 200 MBPS. The feeds are provided partition wise. Each partition will be sent on one set of feed only. These interfaces provide un-netted price level data. They include the following interfaces

3.2.1 BSE Enhanced Market Data Interface (EMDI)

This interface provides un-netted price level aggregated market data using multicast technology. The un-netted data is for a defined price level only. The data is in FAST FIX format.

3.2.2 BSE Enhanced Order Book Interface (EOBI)

This interface provides every visible order in the order book i.e., tick by tick update is sent in this stream of market data. Most of the functional concepts are like EMDI, however the data is sent in the proprietary binary format.

3.3 Reference Data Interface

3.3.1 BSE Reference Data Interface (RDI)

This interface provides reference data or the master through multicast channel. The data is continuously published on the channel throughout the day. The reference data is also provided through master data file at EOD.

3.4 Comparison Between market data streams:

Attributes	EOBI	EMDI	MDI	Direct NFOCAST
Price Level	Full depth	Depth up to configured level (5 Level)	Depth up to configured level (5 Level)	5 level
Price level Aggregation	Every tick is sent as individual update	Unnetted but price level aggregated	Netted Price level aggregated	Netted Price level aggregated
Format	Binary	FAST	FAST	Binary
Bandwidth	High (Approx. 800 MBPS)	High (Approx. 80 MBPS)	Low (Approx. 2.5 MBPS)	Low (Approx. 3 MBPS)
Usage	Algorithmic trading	Algorithmic trading	Used for Terminal based trading application	Used for Terminal based trading application
Recovery	The current pending order book is replayed & should be read again to build the book	The current snapshot up to the configured level is replayed in a separate stream and should be used in case of missed packets	The current snapshot up to the configured level is replayed at regular interval and should be used in case of missed packets	Every update sent is a complete snapshot of 5 level order book, so no separate recovery is required
Availability	Only in BSE Colocation	All networks	All networks	All networks
Composition	Partition wise feed	Partition wise feed	Single feed for all partitions	Single feed for all partitions.

4 Routes

In order to have network reachability to each of the connectivity described in the document, necessary routes need to be configured in the client network. Below the routes recommended by exchange to be configured in the client network.

4.1 Routes

Segment	Primary Site	DR site	Simulation/ Test
EQUITY	Interactive 10.255.255.1/24 Port: 12906 to 12920 Port: 15906 to 15920 Port: 18906 to 18920 Market Data 137.75.1.1/16	Interactive 10.255.241.1/24 Port: 12906 to 12920 Port: 18906 to 18920 Market Data 138.75.131.0/24	Interactive 10.255.254.1/24 Port: 11406 to 11420 Market Data 137.74.1.1/16 10.255.242.0/24
EQUITY DERIVATIVES	Interactive 10.255.255.1/24 Port: 15906 to 15920 Market Data 137.75.1.1/16	Interactive 10.255.241.1/24 Port: 15906 to 15920 Market Data 138.75.131.0/24	Interactive 10.255.254.1/24 Port: 12406 to 12420 Market Data 137.74.1.1/16 10.255.242.0/24
EQUITY SHORTAGE AUCTION	10.1.101.36 Port: 1001	10.1.101.194 Port:1001	10.1.101.105 Port:1000
CURRENCY DERIVATIVES	Interactive 10.255.255.1/24 Port: 13906 to 13920 Market Data 137.75.1.1/16	Interactive 10.255.241.1/24 Port: 13906 to 13920 Market Data 138.75.131.0/24	Interactive 10.255.254.1/24 Port: 10406 to 10420 Market Data 137.75.1.1/16 10.255.242.0/24

COMMODITY DERIVATIVES & ELECTRONIC GOLD RECIPTS (EGR)	Interactive	Interactive	Interactive
	10.255.255.1/26	10.255.241.1/26	10.255.254.1/26
	Port: 14906 to 14920	Port: 14906 to 14920	Port: 15406 to 15420
	Market Data	Market Data	Market Data
	137.75.1.1/16	138.75.131.0/24	137.75.1.1/16 10.255.242.0/24
Additional Route for members having servers in BSE Colocation	Interactive	Not applicable	Not applicable
	10.255.253.1/24		
	Port: 15906 to 15920		
	Port: 18906 to 18920		
	Market Data		
	10.255.225.1/24		

It is highly recommended that the client should allow the above-mentioned routes in their **network**. The subnet is kept wide enough to provision any new server in future that will be incorporated in the exchange farm **without impacting the settings done at client side**. Also note that the exchange may add a new server in the defined range without prior intimation as well.

5 Connection Parameters

The Various Connection parameter for Interactive and market data feed is mentioned below. The Below section provides all the parameters associated with trading and various set-up such Production, Simulation/ Test and Disaster Recovery.

5.1 Production: Equity

Interactive Interfaces				Reference Data Interface																								
<div>Connection Gateway</div> <table><tr><td></td><td>Host IP</td><td>Port</td></tr><tr><td>Primary</td><td>10.255.255.6</td><td>18909</td></tr><tr><td>Secondary</td><td>10.255.255.7</td><td>18909</td></tr></table>					Host IP	Port	Primary	10.255.255.6	18909	Secondary	10.255.255.7	18909	<div>RDI</div> <table><tr><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>227.0.0.11</td><td>227.0.0.12</td><td>227.0.0.13</td><td>227.0.0.14</td></tr><tr><td>12984</td><td>12985</td><td>12986</td><td>12987</td></tr></table>				Incremental		Snapshot		227.0.0.11	227.0.0.12	227.0.0.13	227.0.0.14	12984	12985	12986	12987
					Host IP	Port																						
				Primary	10.255.255.6	18909																						
				Secondary	10.255.255.7	18909																						
Incremental		Snapshot																										
227.0.0.11	227.0.0.12	227.0.0.13	227.0.0.14																									
12984	12985	12986	12987																									
Market Data Interfaces (Low Bandwidth)																												
<div>MDI</div> <table><tr><td>Service A</td><td>Service B</td></tr><tr><td>227.0.0.19</td><td>227.0.0.20</td></tr><tr><td>12994</td><td>12995</td></tr></table>		Service A	Service B	227.0.0.19	227.0.0.20	12994	12995	<div>NFCAST</div> <table><tr><td>Equity</td></tr><tr><td>227.0.0.21</td></tr><tr><td>12996</td></tr></table>		Equity	227.0.0.21	12996																
		Service A	Service B																									
		227.0.0.19	227.0.0.20																									
		12994	12995																									
Equity																												
227.0.0.21																												
12996																												
Market Data Interfaces (High Bandwidth)																												
<div>EMDI</div>		Incremental		Snapshot																								
		Service A	Service B	Service A	Service B																							
	Partition 1	227.0.0.23	227.0.0.24	227.0.0.25	227.0.0.26																							
		12923	12924	12925	12926																							
	Partition 2	227.0.0.27	227.0.0.28	227.0.0.29	227.0.0.30																							
		12927	12928	12929	12930																							
	Partition 3	227.0.0.31	227.0.0.32	227.0.0.33	227.0.0.34																							
		12931	12932	12933	12934																							
	Partition 4	227.0.0.35	227.0.0.36	227.0.0.37	227.0.0.38																							
		12935	12936	12937	12938																							
Indices	227.0.0.15	227.0.0.16	--	--																								
	12988	12989	--	--																								
<div>EOBI</div>		Incremental		Snapshot																								
		Service A	Service B	Service A	Service B																							
	Partition 1	237.0.0.1	237.0.0.2	237.0.0.3	237.0.0.4																							
		12901	12902	12903	12904																							
	Partition 2	237.0.0.5	237.0.0.6	237.0.0.7	237.0.0.8																							
		12905	12906	12907	12908																							
	Partition 3	237.0.0.9	237.0.0.10	237.0.0.11	237.0.0.12																							
		12909	12910	12911	12912																							
	Partition 4	237.0.0.13	237.0.0.14	237.0.0.15	237.0.0.16																							
		12913	12914	12915	12916																							

Interactive Interfaces				Reference Data Interface				
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot	
	Primary	10.255.255.46	15910		228.0.0.3	228.0.0.4	228.0.0.5	228.0.0.6
	Secondary	10.255.255.47	15910		15903	15904	15905	15906
Market Data Interfaces (Low Bandwidth)								
MDI	Service A	Service B	NFC		Equity Derivatives	LPP	Equity Derivatives	
	228.0.0.7	228.0.0.8					228.0.0.11	
	15907	15908					15911	
Market Data Interfaces (High Bandwidth)								

		Incremental		Snapshot	
		Service A	Service B	Service A	Service B
EMDI	Partition 1	228.0.0.13	228.0.0.14	228.0.0.15	228.0.0.16
		15913	15914	15915	15916
	Partition 2	228.0.0.17	228.0.0.18	228.0.0.19	228.0.0.20
		15917	15918	15919	15920
	Partition 3	228.0.0.21	228.0.0.22	228.0.0.23	228.0.0.24
		15921	15922	15923	15924
	Partition 4	228.0.0.25	228.0.0.26	228.0.0.27	228.0.0.28
		15925	15926	15927	15928
	Partition 5	228.0.0.29	228.0.0.30	228.0.0.31	228.0.0.32
		15929	15930	15931	15932
	Partition 6	228.0.0.33	228.0.0.34	228.0.0.35	228.0.0.36
		15933	15934	15935	15936
	Partition 7	228.0.0.37	228.0.0.38	228.0.0.39	228.0.0.40
		15937	15938	15939	15940
	Partition 8	228.0.0.41	228.0.0.42	228.0.0.43	228.0.0.44
		15941	15942	15943	15944
	Partition 9	228.0.0.45	228.0.0.46	228.0.0.47	228.0.0.48
		15945	15946	15947	15948
	Partition 10	228.0.0.49	228.0.0.50	228.0.0.51	228.0.0.52
		15949	15950	15951	15952
	Partition 11	228.0.0.53	228.0.0.54	228.0.0.55	228.0.0.56
		15953	15954	15955	15956
	Partition 12	228.0.0.57	228.0.0.58	228.0.0.59	228.0.0.60
		15957	15958	15959	15960
	Others	228.0.0.9	228.0.0.10	--	--
		15909	15910	--	--

		Incremental		Snapshot	
		Service A	Service B	Service A	Service B
EOBI	Partition 1	238.0.0.1	238.0.0.2	238.0.0.3	238.0.0.4
		15901	15902	15903	15904
	Partition 2	238.0.0.5	238.0.0.6	238.0.0.7	238.0.0.8
		15905	15906	15907	15908
	Partition 3	238.0.0.9	238.0.0.10	238.0.0.11	238.0.0.12
		15909	15910	15911	15912
	Partition 4	238.0.0.13	238.0.0.14	238.0.0.15	238.0.0.16
		15913	15914	15915	15916
	Partition 5	238.0.0.17	238.0.0.18	238.0.0.19	238.0.0.20
		15917	15918	15919	15920
	Partition 6	238.0.0.21	238.0.0.22	238.0.0.23	238.0.0.24
		15921	15922	15923	15924
	Partition 7	238.0.0.25	238.0.0.26	238.0.0.27	238.0.0.28
		15925	15926	15927	15928
	Partition 8	238.0.0.29	238.0.0.30	238.0.0.31	238.0.0.32
		15929	15930	15931	15932
	Partition 9	238.0.0.33	238.0.0.34	238.0.0.35	238.0.0.36
		15933	15934	15935	15936
	Partition 10	238.0.0.37	238.0.0.38	238.0.0.39	238.0.0.40
		15937	15938	15939	15940
	Partition 11	238.0.0.41	238.0.0.42	238.0.0.43	238.0.0.44
		15941	15942	15943	15944
	Partition 12	238.0.0.45	238.0.0.46	238.0.0.47	238.0.0.48
		15945	15946	15947	15948

Interactive Interfaces				Reference Data Interface				
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot	
	Primary	10.255.255.13	13910		229.0.0.11	229.0.0.12	229.0.0.13	229.0.0.14
	Secondary	10.255.255.12	13910		10984	10985	10986	10987
Market Data Interfaces (Low Bandwidth)								
MDI	Service A	Service B	NFCAST					
	229.0.0.19	229.0.0.20						
	10994	10995						
					Currency			
					229.0.0.21			
					10996			
Market Data Interfaces (High Bandwidth)								
EMDI		Incremental		Snapshot				
		Service A	Service B	Service A	Service B			
		229.0.0.23	229.0.0.24	229.0.0.25	229.0.0.26			
		10923	10924	10925	10926			
EOBI	Partition 1	Incremental		Snapshot				
		Service A	Service B	Service A	Service B			
		236.0.0.1	236.0.0.2	236.0.0.3	236.0.0.4			
		10901	10902	10903	10904			

Interactive Interfaces				Reference Data Interface					
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot		
	Primary	10.255.255.12	14910		229.0.0.69	229.0.0.70	229.0.0.71	229.0.0.72	
	Secondary	10.255.255.13	14910		14969	14970	14971	14972	
Market Data Interfaces (Low Bandwidth)									
MDI	Service A	Service B							
	229.0.0.67	229.0.0.68							
	14967	14968							
				NFCAS	Commodity	EGR			
					229.0.0.65	229.0.0.66			
					14965	14966			
Market Data Interfaces (High Bandwidth)									
EMDI	Partition 1	Incremental		Snapshot					
		Service A	Service B	Service A	Service B				
		229.0.0.73	229.0.0.74	229.0.0.75	229.0.0.76				
		14973	14974	14975	14976				

Interactive Interfaces				Reference Data Interface																								
<div>Connection Gateway</div> <table><tr><td></td><td>Host IP</td><td>Port</td></tr><tr><td>Primary</td><td>10.255.241.10</td><td>18909</td></tr><tr><td>Secondary</td><td>10.255.241.11</td><td>18909</td></tr></table>					Host IP	Port	Primary	10.255.241.10	18909	Secondary	10.255.241.11	18909	<div>RDI</div> <table><tr><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>227.0.0.11</td><td>227.0.0.12</td><td>227.0.0.13</td><td>227.0.0.14</td></tr><tr><td>12984</td><td>12985</td><td>12986</td><td>12987</td></tr></table>				Incremental		Snapshot		227.0.0.11	227.0.0.12	227.0.0.13	227.0.0.14	12984	12985	12986	12987
					Host IP	Port																						
				Primary	10.255.241.10	18909																						
				Secondary	10.255.241.11	18909																						
Incremental		Snapshot																										
227.0.0.11	227.0.0.12	227.0.0.13	227.0.0.14																									
12984	12985	12986	12987																									
Market Data Interfaces (Low Bandwidth)																												
<div>MDI</div> <table><tr><td>Service A</td><td>Service B</td></tr><tr><td>227.0.0.19</td><td>227.0.0.20</td></tr><tr><td>12994</td><td>12995</td></tr></table>		Service A	Service B	227.0.0.19	227.0.0.20	12994	12995	<div>NFCAST</div> <table><tr><td>Equity</td></tr><tr><td>227.0.0.21</td></tr><tr><td>12996</td></tr></table>		Equity	227.0.0.21	12996																
		Service A	Service B																									
		227.0.0.19	227.0.0.20																									
		12994	12995																									
Equity																												
227.0.0.21																												
12996																												
Market Data Interfaces (High Bandwidth)																												
<div>EMDI</div>		Incremental		Snapshot																								
		Service A	Service B	Service A	Service B																							
	Partition 1	227.0.0.23	227.0.0.24	227.0.0.25	227.0.0.26																							
		12923	12924	12925	12926																							
	Partition 2	227.0.0.27	227.0.0.28	227.0.0.29	227.0.0.30																							
		12927	12928	12929	12930																							
	Partition 3	227.0.0.31	227.0.0.32	227.0.0.33	227.0.0.34																							
		12931	12932	12933	12934																							
	Partition 4	227.0.0.35	227.0.0.36	227.0.0.37	227.0.0.38																							
		12935	12936	12937	12938																							
Indices	227.0.0.15	227.0.0.16	--	--																								
	12915	12916	--	--																								
<div>EOBI</div>		Incremental		Snapshot																								
		Service A	Service B	Service A	Service B																							
	Partition 1	237.0.0.1	237.0.0.2	237.0.0.3	237.0.0.4																							
		12901	12902	12903	12904																							
	Partition 2	237.0.0.5	237.0.0.6	237.0.0.7	237.0.0.8																							
		12905	12906	12907	12908																							
	Partition 3	237.0.0.9	237.0.0.10	237.0.0.11	237.0.0.12																							
		12909	12910	12911	12912																							
	Partition 4	237.0.0.13	237.0.0.14	237.0.0.15	237.0.0.16																							
		12913	12914	12915	12916																							

Interactive Interfaces				Reference Data Interface																																																																																																																																																						
<div>Connection Gateway</div> <table><tr><td></td><td>Host IP</td><td>Port</td></tr><tr><td>Primary</td><td>10.255.241.16</td><td>15910</td></tr><tr><td>Secondary</td><td>10.255.241.17</td><td>15910</td></tr></table>					Host IP	Port	Primary	10.255.241.16	15910	Secondary	10.255.241.17	15910	<div>RDI</div> <table><tr><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>228.0.0.3</td><td>228.0.0.4</td><td>228.0.0.5</td><td>228.0.0.6</td></tr><tr><td>15903</td><td>15904</td><td>15905</td><td>15906</td></tr></table>				Incremental		Snapshot		228.0.0.3	228.0.0.4	228.0.0.5	228.0.0.6	15903	15904	15905	15906																																																																																																																														
					Host IP	Port																																																																																																																																																				
				Primary	10.255.241.16	15910																																																																																																																																																				
				Secondary	10.255.241.17	15910																																																																																																																																																				
Incremental		Snapshot																																																																																																																																																								
228.0.0.3	228.0.0.4	228.0.0.5	228.0.0.6																																																																																																																																																							
15903	15904	15905	15906																																																																																																																																																							
Market Data Interfaces (Low Bandwidth)								<div>MDI</div> <table><tr><td>Service A</td><td>Service B</td></tr><tr><td>228.0.0.7</td><td>228.0.0.8</td></tr><tr><td>15907</td><td>15908</td></tr></table>			Service A	Service B	228.0.0.7	228.0.0.8	15907	15908	<div>NFCAST</div> <table><tr><td>Equity Derivatives</td></tr><tr><td>228.0.0.1</td></tr><tr><td>15901</td></tr></table> <div>LPP</div> <table><tr><td>Equity Derivatives</td></tr><tr><td>228.0.0.11</td></tr><tr><td>15911</td></tr></table>					Equity Derivatives	228.0.0.1	15901	Equity Derivatives	228.0.0.11	15911	Market Data Interfaces (High Bandwidth)								EMDI		Incremental		Snapshot			Service A	Service B	Service A	Service B	Partition 1	228.0.0.13	228.0.0.14	228.0.0.15	228.0.0.16	15913	15914	15915	15916	Partition 2	228.0.0.17	228.0.0.18	228.0.0.19	228.0.0.20	15917	15918	15919	15920	Partition 3	228.0.0.21	228.0.0.22	228.0.0.23	228.0.0.24	15921	15922	15923	15924	Partition 4	228.0.0.25	228.0.0.26	228.0.0.27	228.0.0.28	15925	15926	15927	15928	Partition 5	228.0.0.29	228.0.0.30	228.0.0.31	228.0.0.32	15929	15930	15931	15932	Partition 6	228.0.0.33	228.0.0.34	228.0.0.35	228.0.0.36	15933	15934	15935	15936	Partition 7	228.0.0.37	228.0.0.38	228.0.0.39	228.0.0.40	15937	15938	15939	15940	Partition 8	228.0.0.41	228.0.0.42	228.0.0.43	228.0.0.44	15941	15942	15943	15944	Partition 9	228.0.0.45	228.0.0.46	228.0.0.47	228.0.0.48	15945	15946	15947	15948	Partition 10	228.0.0.49	228.0.0.50	228.0.0.51	228.0.0.52	15949	15950	15951	15952	Partition 11	228.0.0.53	228.0.0.54	228.0.0.55	228.0.0.56	15953	15954	15955	15956	Partition 12	228.0.0.57	228.0.0.58	228.0.0.59	228.0.0.60	15957	15958	15959	15960
Market Data Interfaces (Low Bandwidth)																																																																																																																																																										
<div>MDI</div> <table><tr><td>Service A</td><td>Service B</td></tr><tr><td>228.0.0.7</td><td>228.0.0.8</td></tr><tr><td>15907</td><td>15908</td></tr></table>			Service A	Service B	228.0.0.7	228.0.0.8	15907	15908	<div>NFCAST</div> <table><tr><td>Equity Derivatives</td></tr><tr><td>228.0.0.1</td></tr><tr><td>15901</td></tr></table> <div>LPP</div> <table><tr><td>Equity Derivatives</td></tr><tr><td>228.0.0.11</td></tr><tr><td>15911</td></tr></table>					Equity Derivatives	228.0.0.1	15901	Equity Derivatives	228.0.0.11	15911																																																																																																																																							
			Service A	Service B																																																																																																																																																						
			228.0.0.7	228.0.0.8																																																																																																																																																						
			15907	15908																																																																																																																																																						
Equity Derivatives																																																																																																																																																										
228.0.0.1																																																																																																																																																										
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Equity Derivatives																																																																																																																																																										
228.0.0.11																																																																																																																																																										
15911																																																																																																																																																										
Market Data Interfaces (High Bandwidth)								EMDI		Incremental		Snapshot			Service A	Service B	Service A	Service B	Partition 1	228.0.0.13	228.0.0.14	228.0.0.15	228.0.0.16	15913	15914	15915	15916	Partition 2	228.0.0.17	228.0.0.18	228.0.0.19	228.0.0.20	15917	15918	15919		15920	Partition 3	228.0.0.21	228.0.0.22	228.0.0.23		228.0.0.24	15921	15922	15923	15924	Partition 4	228.0.0.25	228.0.0.26	228.0.0.27	228.0.0.28	15925	15926	15927	15928	Partition 5	228.0.0.29	228.0.0.30	228.0.0.31	228.0.0.32	15929	15930	15931	15932	Partition 6	228.0.0.33	228.0.0.34	228.0.0.35	228.0.0.36	15933	15934	15935	15936	Partition 7	228.0.0.37	228.0.0.38	228.0.0.39	228.0.0.40	15937	15938	15939	15940	Partition 8	228.0.0.41	228.0.0.42	228.0.0.43	228.0.0.44	15941	15942	15943	15944	Partition 9	228.0.0.45	228.0.0.46	228.0.0.47	228.0.0.48	15945	15946	15947	15948	Partition 10	228.0.0.49	228.0.0.50	228.0.0.51	228.0.0.52	15949	15950	15951	15952	Partition 11	228.0.0.53	228.0.0.54	228.0.0.55	228.0.0.56	15953	15954	15955	15956	Partition 12	228.0.0.57	228.0.0.58	228.0.0.59	228.0.0.60	15957	15958	15959	15960																										
Market Data Interfaces (High Bandwidth)																																																																																																																																																										
EMDI		Incremental		Snapshot																																																																																																																																																						
		Service A	Service B	Service A	Service B																																																																																																																																																					
	Partition 1	228.0.0.13	228.0.0.14	228.0.0.15	228.0.0.16																																																																																																																																																					
		15913	15914	15915	15916																																																																																																																																																					
	Partition 2	228.0.0.17	228.0.0.18	228.0.0.19	228.0.0.20																																																																																																																																																					
		15917	15918	15919	15920																																																																																																																																																					
	Partition 3	228.0.0.21	228.0.0.22	228.0.0.23	228.0.0.24																																																																																																																																																					
		15921	15922	15923	15924																																																																																																																																																					
	Partition 4	228.0.0.25	228.0.0.26	228.0.0.27	228.0.0.28																																																																																																																																																					
		15925	15926	15927	15928																																																																																																																																																					
	Partition 5	228.0.0.29	228.0.0.30	228.0.0.31	228.0.0.32																																																																																																																																																					
		15929	15930	15931	15932																																																																																																																																																					
	Partition 6	228.0.0.33	228.0.0.34	228.0.0.35	228.0.0.36																																																																																																																																																					
		15933	15934	15935	15936																																																																																																																																																					
	Partition 7	228.0.0.37	228.0.0.38	228.0.0.39	228.0.0.40																																																																																																																																																					
		15937	15938	15939	15940																																																																																																																																																					
	Partition 8	228.0.0.41	228.0.0.42	228.0.0.43	228.0.0.44																																																																																																																																																					
		15941	15942	15943	15944																																																																																																																																																					
	Partition 9	228.0.0.45	228.0.0.46	228.0.0.47	228.0.0.48																																																																																																																																																					
		15945	15946	15947	15948																																																																																																																																																					
	Partition 10	228.0.0.49	228.0.0.50	228.0.0.51	228.0.0.52																																																																																																																																																					
		15949	15950	15951	15952																																																																																																																																																					
	Partition 11	228.0.0.53	228.0.0.54	228.0.0.55	228.0.0.56																																																																																																																																																					
		15953	15954	15955	15956																																																																																																																																																					
	Partition 12	228.0.0.57	228.0.0.58	228.0.0.59	228.0.0.60																																																																																																																																																					
		15957	15958	15959	15960																																																																																																																																																					

		Others	228.0.0.9	228.0.0.10	--	--
			15909	15910	--	--
EOBI		Incremental		Snapshot		
		Service A	Service B	Service A	Service B	
	Partition 1	238.0.0.1	238.0.0.2	238.0.0.3	238.0.0.4	
		15901	15902	15903	15904	
	Partition 2	238.0.0.5	238.0.0.6	238.0.0.7	238.0.0.8	
		15905	15906	15907	15908	
	Partition 3	238.0.0.9	238.0.0.10	238.0.0.11	238.0.0.12	
		15909	15910	15911	15912	
	Partition 4	238.0.0.13	238.0.0.14	238.0.0.15	238.0.0.16	
		15913	15914	15915	15916	
	Partition 5	238.0.0.17	238.0.0.18	238.0.0.19	238.0.0.20	
		15917	15918	15919	15920	
	Partition 6	238.0.0.21	238.0.0.22	238.0.0.23	238.0.0.24	
		15921	15922	15923	15924	
	Partition 7	238.0.0.25	238.0.0.26	238.0.0.27	238.0.0.28	
		15925	15926	15927	15928	
	Partition 8	238.0.0.29	238.0.0.30	238.0.0.31	238.0.0.32	
		15929	15930	15931	15932	
	Partition 9	238.0.0.33	238.0.0.34	238.0.0.35	238.0.0.36	
		15933	15934	15935	15936	
	Partition 10	238.0.0.37	238.0.0.38	238.0.0.39	238.0.0.40	
		15937	15938	15939	15940	
	Partition 11	238.0.0.41	238.0.0.42	238.0.0.43	238.0.0.44	
		15941	15942	15943	15944	
	Partition 12	238.0.0.45	238.0.0.46	238.0.0.47	238.0.0.48	
		15945	15946	15947	15948	

Interactive Interfaces				Reference Data Interface																								
<div>Connection Gateway</div> <table><tr><td></td><td>Host IP</td><td>Port</td></tr><tr><td>Primary</td><td>10.255.241.26</td><td>13910</td></tr><tr><td>Secondary</td><td>10.255.241.27</td><td>13910</td></tr></table>					Host IP	Port	Primary	10.255.241.26	13910	Secondary	10.255.241.27	13910	<div>RDI</div> <table><tr><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>229.0.0.11</td><td>229.0.0.12</td><td>229.0.0.13</td><td>229.0.0.14</td></tr><tr><td>10984</td><td>10985</td><td>10986</td><td>10987</td></tr></table>				Incremental		Snapshot		229.0.0.11	229.0.0.12	229.0.0.13	229.0.0.14	10984	10985	10986	10987
					Host IP	Port																						
				Primary	10.255.241.26	13910																						
Secondary	10.255.241.27	13910																										
Incremental		Snapshot																										
229.0.0.11	229.0.0.12	229.0.0.13	229.0.0.14																									
10984	10985	10986	10987																									
Market Data Interfaces (Low Bandwidth)																												
<div>MDI</div> <table><tr><td>Service A</td><td>Service B</td></tr><tr><td>229.0.0.19</td><td>229.0.0.20</td></tr><tr><td>10994</td><td>10995</td></tr></table>				Service A	Service B	229.0.0.19	229.0.0.20	10994	10995	<div>NFCAST</div> <table><tr><td>Currency</td></tr><tr><td>229.0.0.21</td></tr><tr><td>10996</td></tr></table>				Currency	229.0.0.21	10996												
				Service A	Service B																							
				229.0.0.19	229.0.0.20																							
10994	10995																											
Currency																												
229.0.0.21																												
10996																												
Market Data Interfaces (High Bandwidth)																												
<div>EMDI</div> <table><tr><td rowspan="3"></td><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>Service A</td><td>Service B</td><td>Service A</td><td>Service B</td></tr><tr><td>229.0.0.23</td><td>229.0.0.24</td><td>229.0.0.25</td><td>229.0.0.26</td></tr><tr><td>Partition 1</td><td>10923</td><td>10924</td><td>10925</td><td>10926</td></tr></table>							Incremental		Snapshot		Service A	Service B	Service A	Service B	229.0.0.23	229.0.0.24	229.0.0.25	229.0.0.26	Partition 1	10923	10924	10925	10926					
								Incremental		Snapshot																		
								Service A	Service B	Service A	Service B																	
						229.0.0.23		229.0.0.24	229.0.0.25	229.0.0.26																		
Partition 1	10923	10924	10925	10926																								
<div>EOBI</div> <table><tr><td rowspan="3"></td><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>Service A</td><td>Service B</td><td>Service A</td><td>Service B</td></tr><tr><td>236.0.0.1</td><td>236.0.0.2</td><td>236.0.0.3</td><td>236.0.0.4</td></tr><tr><td>Partition 1</td><td>10901</td><td>10902</td><td>10903</td><td>10904</td></tr></table>							Incremental		Snapshot		Service A	Service B	Service A	Service B	236.0.0.1	236.0.0.2	236.0.0.3	236.0.0.4	Partition 1	10901	10902	10903	10904					
								Incremental		Snapshot																		
								Service A	Service B	Service A	Service B																	
						236.0.0.1		236.0.0.2	236.0.0.3	236.0.0.4																		
Partition 1	10901	10902	10903	10904																								

5.8 Disaster Recovery: Commodities Derivatives & Electronic Gold Receipts (EGR)

Interactive Interfaces				Reference Data Interface				
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot	
	Primary	10.255.241.27	14910		229.0.0.69	229.0.0.70	229.0.0.71	229.0.0.72
	Secondary	10.255.241.26	14910		14969	14970	14971	14972
Market Data Interfaces (Low Bandwidth)								
MDI	Service A	Service B	NFCAST					
	229.0.0.67	229.0.0.68						
	14967	14968						
Market Data Interfaces (High Bandwidth)								
EMDI	Partition 1	Incremental		Snapshot				
		Service A	Service B	Service A	Service B			
		229.0.0.73	229.0.0.74	229.0.0.75	229.0.0.76			
		14973	14974	14975	14976			

Interactive Interfaces				Reference Data Interface				
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot	
	Primary	10.255.254.6	11407		226.1.0.5	226.1.0.6	226.1.0.7	226.1.0.8
	Secondary	10.255.254.40	11407		11405	11406	11407	11408
Market Data Interfaces (Low Bandwidth)								
Equity								
MDI	Service A	Service B	NFCAST	Equity				
	226.1.0.2	226.1.0.3		226.1.0.1				
	11402	11403		11401				
Market Data Interfaces (High Bandwidth)								
EMDI		Incremental		Snapshot				
		Service A	Service B	Service A	Service B			
	Partition 1	226.1.0.13	226.1.0.14	226.1.0.15	226.1.0.16			
		11413	11414	11415	11416			
	Partition 2	226.1.0.17	226.1.0.18	226.1.0.19	226.1.0.20			
		11417	11418	11419	11420			
	Partition 3	226.1.0.21	226.1.0.22	226.1.0.23	226.1.0.24			
		11421	11422	11423	11424			
	Partition 4	226.1.0.25	226.1.0.26	226.1.0.27	226.1.0.28			
		11425	11426	11427	11428			
	Indices	226.1.0.9	226.1.0.10	--	--			
		11409	11410	--	--			
EOBI		Incremental		Snapshot				
		Service A	Service B	Service A	Service B			
	Partition 1	226.1.0.45	226.1.0.46	226.1.0.47	226.1.0.48			
		11445	11446	11447	11448			
	Partition 2	226.1.0.49	226.1.0.50	226.1.0.51	226.1.0.52			
		11449	11450	11451	11452			
	Partition 3	226.1.0.53	226.1.0.54	226.1.0.55	226.1.0.56			
		11453	11454	11455	11456			
	Partition 4	226.1.0.57	226.1.0.58	226.1.0.59	226.1.0.60			
		11457	11458	11459	11460			

Interactive Interfaces				Reference Data Interface																										
<table><tr><td rowspan="3">Connection Gateway</td><td></td><td>Host IP</td><td>Port</td></tr><tr><td>Primary</td><td>10.255.254.40</td><td>12410</td></tr><tr><td>Secondary</td><td>10.255.254.6</td><td>12410</td></tr></table>				Connection Gateway		Host IP	Port	Primary	10.255.254.40	12410	Secondary	10.255.254.6	12410	<table><tr><td rowspan="3">RDI</td><td colspan="2">Incremental</td><td colspan="2">Snapshot</td></tr><tr><td>226.1.1.5</td><td>226.1.1.6</td><td>226.1.1.7</td><td>226.1.1.8</td></tr><tr><td>12405</td><td>12406</td><td>12407</td><td>12408</td></tr></table>				RDI	Incremental		Snapshot		226.1.1.5	226.1.1.6	226.1.1.7	226.1.1.8	12405	12406	12407	12408
Connection Gateway		Host IP	Port																											
	Primary	10.255.254.40	12410																											
	Secondary	10.255.254.6	12410																											
RDI	Incremental		Snapshot																											
	226.1.1.5	226.1.1.6	226.1.1.7	226.1.1.8																										
	12405	12406	12407	12408																										
Market Data Interfaces (Low Bandwidth)																														
<table><tr><td rowspan="3">MDI</td><td>Service A</td><td>Service B</td></tr><tr><td>226.1.1.2</td><td>226.1.1.3</td></tr><tr><td>12402</td><td>12403</td></tr></table>			MDI	Service A	Service B	226.1.1.2	226.1.1.3	12402	12403	<table><tr><td rowspan="3">NFCAST</td><td>Equity Derv</td></tr><tr><td>226.1.1.1</td></tr><tr><td>12401</td></tr></table> <table><tr><td rowspan="3">LPP</td><td>Equity Derv</td></tr><tr><td>226.1.3.61</td></tr><tr><td>11461</td></tr></table>					NFCAST	Equity Derv	226.1.1.1	12401	LPP	Equity Derv	226.1.3.61	11461								
MDI	Service A	Service B																												
	226.1.1.2	226.1.1.3																												
	12402	12403																												
NFCAST	Equity Derv																													
	226.1.1.1																													
	12401																													
LPP	Equity Derv																													
	226.1.3.61																													
	11461																													
Market Data Interfaces (High Bandwidth)																														

		Incremental		Snapshot	
		Service A	Service B	Service A	Service B
EMDI	Partition 1	226.1.1.9	226.1.1.10	226.1.1.11	226.1.1.12
		12409	12410	12411	12412
	Partition 2	226.1.1.13	226.1.1.14	226.1.1.15	226.1.1.16
		12413	12414	12415	12416
	Partition 3	226.1.1.17	226.1.1.18	226.1.1.19	226.1.1.20
		12417	12418	12419	12420
	Partition 4	226.1.1.21	226.1.1.22	226.1.1.23	226.1.1.24
		12421	12422	12423	12424
	Partition 5	226.1.1.25	226.1.1.26	226.1.1.27	226.1.1.28
		12425	12426	12427	12428
	Partition 6	226.1.1.29	226.1.1.30	226.1.1.31	226.1.1.32
		12429	12430	12431	12432
	Partition 7	226.1.1.33	226.1.1.34	226.1.1.35	226.1.1.36
		12433	12434	12435	12436
	Partition 8	226.1.1.37	226.1.1.38	226.1.1.39	226.1.1.40
		12437	12438	12439	12440
	Partition 9	226.1.1.41	226.1.1.42	226.1.1.43	226.1.1.44
		12441	12442	12443	12444
	Partition 10	226.1.1.45	226.1.1.46	226.1.1.47	226.1.1.48
		12445	12446	12447	12448
	Partition 11	226.1.1.49	226.1.1.50	226.1.1.51	226.1.1.52
		12449	12450	12451	12452
	Partition 12	226.1.1.53	226.1.1.54	226.1.1.55	226.1.1.56
		12453	12454	12455	12456

EOBI		Incremental		Snapshot	
		Service A	Service B	Service A	Service B
	Partition 1	226.1.1.62	226.1.1.63	226.1.1.64	226.1.1.65
		12462	12463	12464	12465
	Partition 2	226.1.1.66	226.1.1.67	226.1.1.68	226.1.1.69
		12466	12467	12468	12469
	Partition 3	226.1.1.70	226.1.1.71	226.1.1.72	226.1.1.73
		12470	12471	12472	12473
	Partition 4	226.1.1.74	226.1.1.75	226.1.1.76	226.1.1.77
		12474	12475	12476	12477
	Partition 5	226.1.1.78	226.1.1.79	226.1.1.80	226.1.1.81
		12478	12479	12480	12481
	Partition 6	226.1.1.82	226.1.1.83	226.1.1.84	226.1.1.85
		12482	12483	12484	12485
	Partition 7	226.1.1.86	226.1.1.87	226.1.1.88	226.1.1.89
		12486	12487	12488	12489
	Partition 8	226.1.1.90	226.1.1.91	226.1.1.92	226.1.1.93
		12490	12491	12492	12494
	Partition 9	226.1.1.94	226.1.1.95	226.1.1.96	226.1.1.97
		12494	12495	12496	12497
	Partition 10	226.1.1.98	226.1.1.99	226.1.1.100	226.1.1.101
		12498	12499	22400	22401
	Partition 11	226.1.1.102	226.1.1.103	226.1.1.104	226.1.1.105
		22402	22403	22404	22405
	Partition 12	226.1.1.106	226.1.1.107	226.1.1.108	226.1.1.109
		22406	22407	22408	22409

Interactive Interfaces				Reference Data Interface				
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot	
	Primary	10.255.254.6	10408		226.1.3.5	226.1.3.6	226.1.3.7	226.1.3.8
	Secondary	10.255.254.6	10409		10405	10406	10407	10408

Market Data Interfaces (Low Bandwidth)							
MDI	Service A	Service B		NFCAST	Currency		
226.1.3.2	226.1.3.3		226.1.3.1				
10402	10403		10401				
Market Data Interfaces (High Bandwidth)							
EMDI		Incremental		Snapshot			
Service A	Service B	Service A	Service B				
226.1.3.13	226.1.3.14	226.1.3.15	226.1.3.16				
10413	10414	10415	10416				
EOBI		Incremental		Snapshot			
Service A	Service B	Service A	Service B				
226.1.3.33	226.1.3.34	226.1.3.35	226.1.3.36				
10433	10434	10435	10436				

5.12 Simulation/ Test: Commodities Derivatives & Electronic Gold Receipts (EGR)

Interactive Interfaces				Reference Data Interface					
Connection Gateway		Host IP	Port	RDI	Incremental		Snapshot		
	Primary	10.255.254.6	15408		226.1.2.5	226.1.2.6	226.1.2.7	226.1.2.8	
	Secondary	10.255.254.6	15409		15405	15406	15407	15408	
Market Data Interfaces (Low Bandwidth)									
MDI	Service A	Service B		NFCAST	Commodity		EGR		
	226.1.2.3	226.1.2.4			226.1.2.1		226.1.2.2		
	15403	15404			15401		15402		
Market Data Interfaces (High Bandwidth)									
EMDI	Partition 1	Incremental		Snapshot					
		Service A	Service B	Service A	Service B				
		226.1.2.9	226.1.2.10	226.1.2.11	226.1.2.12				
		15409	15410	15411	15412				

6 Change Log

Sr. No.	Version	Date	Description				
1.	1.0	25 th September 2020	Original Document				
2.	1.1	13 th November 2021	New Multicast IP 227.0.0.17 and 227.0.0.18 added for Equity Derivative segment in MDI Feed.				
3.	1.2	1 st April 2022	<div>Production: New Multicast IP 228.0.0.21 added for EGR in commodities derivatives segment.</div> <div>Simulation/ Test: New Multicast IP 226.1.1.2 added for EGR in commodities derivatives segment.</div> <div>Simulation/ Test Secondary Connection Gateway IP changed as follows for all segments.</div> <table><tr><th>OLD IP</th><th>New IP</th></tr><tr><td>10.255.254.7</td><td>10.255.254.40</td></tr></table>	OLD IP	New IP	10.255.254.7	10.255.254.40
OLD IP	New IP						
10.255.254.7	10.255.254.40						
4	1.3	16 th May 2023	<div>The Generic route section is removed.</div> <div>The section Specific routes renamed as Routes and range of each route updated.</div>				
5	1.4	10 th July 2023	Partition 5 and 6 multicast Ip ports added for EOBI and EMDI in Equity and Equity Derivatives segment in Production, Simulation/ Test, and Disaster Recovery				
6	1.5	10 th August 2023	Partition 7 and 8 multicast Ip ports added for EOBI and EMDI in Equity and Equity Derivatives segment in Production, Simulation/ Test, and Disaster Recovery				
7	1.6	10 th October 2023	<div>Segregation of equity and equity derivatives segment. Changes in following sections</div> <div>(a) Section 4.1 Routes: Routes added for equity derivatives segment.</div> <div>(b) Section 5.3 Production: Equity Derivatives Section 5.6 Disaster Recovery: Equity Derivatives Section 5.10: Simulation/ Test: Equity Derivatives</div>				

			<p>New sections added for IP ports of equity derivatives segment in Production, DR and Simulation/ Test.</p> <p>Multicast IP and ports change in production and DR for Commodities derivatives and EGR segment.</p> <p>Section 5.4 and section 5.8</p>
8	1.7	27 th Nov 2023	(Section 5.2) Change in IP of MDI Service B low bandwidth (Section 5.6) Connection Gateway parameters for DR Equity Derivatives
9	1.8	6 th Dec 2023	(Section 4.1) Change in Routes of Simulation/ Test Equity and Derivatives (Section 5.9, Section 5.10) Connection Gateway Parameters change for Equity and Derivatives in Simulation/ Test
10	1.9	15 th Dec 2023	(Section 5.7, Section 5.8) Connection Gateway Parameters change for Currency Derivatives and Commodities derivatives and EGR in Disaster Recovery.
11	1.10	10 th Jun 2024	Partition 9 and 10 multicast IP ports added for EOBI and EMDI in Equity Derivatives segment in Production, Simulation/ Test, and Disaster Recovery
12	1.11	8 th July 2024	Connection gateway parameters revised for Encryption channel in all segments.
13	1.12	1 st Oct 2024	Connection gateway ports revised for DR Currency and Simulation/ Test all segments
14	1.12.1	4 th Nov 2024	EMDI ports updated to 12988 and 12989 respectively Equity production
15	1.12.2	18 th Nov 2024	LPP multicast parameters have been added to Equity Derivatives sections
16	1.13	16 th December 2024	<p>a. Partition 11 and 12 multicast Ip ports added for EOBI and EMDI in equity and equity derivatives segment in production, Simulation/ Test, and Disaster Recovery.</p> <p>b. Updated Routes for DR and Simulation in Section 4.1</p>
17	1.14	10 th July 2025	Introduced Multicast IP for Indices in Simulation/ Test: Equity
18	1.14.1	5 th Aug 2025	Connection gateway parameters revised in Simulation/ Test for Currency and Commodity segments