

National Stock Exchange of India Limited

Circular

Department: MEMBER SERVICE DEPARTMENT	
Download Ref No: NSE/MSD/53358	Date: August 19, 2022
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All Members,

Market Data – Introduction of Additional Streams in Futures & Options Segment

This circular is in continuation to Exchange consolidated NSE/MSD/50475 for Market data broadcast dated December 01, 2021, circulars NSE/MSD/50965 dated January 07, 2022 and NSE/MSD/51686 dated March 21, 2022 for Market Data - Introduction of Additional Streams in Futures & Options Segment.

Members may kindly note that contracts available for trading are being redistributed across 16 streams in FO segment. Members may refer the following annexure for access details and setup required on their systems in order to receive the market data broadcast:

Sr. No.	Market Type Data	Change	Change Description
1	Price volume (5 depth 1 second refresh), other related data, master updates, market open/close status message broadcast etc. on streams broadcast available in FO segment	FO segment Broadcast Streams Q are being introduced	Table B (additional streams in FO segment – 1 second frequency 5 depth data) of Annexure 1 of circular 51686
2	Tick by Tick order and trade data via Multicast (MTBT) on streams available in FO segment	Broadcast Streams 16 being introduced.	Section B - FO Multicast Tick-by-Tick broadcast parameters of Annexure 2 of circular 51686
3	Order Book Snapshot recovery	Additional 1 stream ID shall be made available i.e. 16	Queue names as mentioned in circular 51686

As mentioned in the consolidated circular, Members are required to refer the Master Files for MTBT in FO segment i.e. fo_contract_stream_info.csv and fo_spd_contract_stream_info.csv for details regarding tokens broadcasted in the individual stream.

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The changes shall be **effective from mock of September 03, 2022** and will be available in the live environment with effect from September 05, 2022.

Below are the updated annexures for details regarding the parameters of the respective streams / Stream Id's and order snapshot recovery for MTBT.

For and on behalf of
National Stock Exchange of India Limited

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Annexure 1 – Updated Table B

Price volume (5 depth 1 second refresh), other related data, master updates, market open/close status message broadcast etc. on additional streams in FO segment

Stream	Stream ID	Security / Contracts *	(Source 1)		(Source 2)		Approx. bandwidth utilization
			Multicast IP	Port	Multicast IP	Port	
FO Stream B	1	As per master stream file	239.50.51.21	15021	239.50.51.121	15121	0.15 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream C	2	As per master stream file	239.50.51.22	15022	239.50.51.122	15122	0.15 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream D	3	As per master stream file	239.50.51.23	15023	239.50.51.123	15123	0.4 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream E	4	As per master stream file	239.50.51.24	15024	239.50.51.124	15124	0.9 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream F	5	As per master stream file	239.50.51.25	15025	239.50.51.125	15125	0.4 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream G	6	As per master stream file	239.50.51.26	15026	239.50.51.126	15126	0.1 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream H	7	As per master stream file	239.50.51.27	15027	239.50.51.127	15127	0.1 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream I	8	As per master stream file	239.50.51.28	15028	239.50.51.128	15128	0.1 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream J	9	As per master stream file	239.50.51.29	15029	239.50.51.129	15129	0.1 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream K	10	As per master stream file	239.50.51.30	15030	239.50.51.130	15130	0.6 Mbps
			239.50.51.20	15020	239.50.51.20	15020	

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FO Stream L	11	As per master stream file	239.50.51.31	15031	239.50.51.131	15131	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream M	12	As per master stream file	239.50.51.32	15032	239.50.51.132	15132	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream N	13	As per master stream file	239.50.51.33	15033	239.50.51.133	15133	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream O	14	As per master stream file	239.50.51.34	15034	239.50.51.134	15134	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream P	15	As per master stream file	239.50.51.35	15035	239.50.51.135	15135	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	
FO Stream Q	16	As per master stream file	239.50.51.36	15036	239.50.51.136	15136	3 Mbps
			239.50.51.20	15020	239.50.51.20	15020	

Annexure 2 – Updated Section B for FO segment

Tick by Tick order and trade data via Multicast (MTBT) Multicast IP address and port are as below

FO						
Stream ID	Contents *	Source 1		Source 2		Approx. bandwidth utilization
				(Delayed Feed)		
		Multicast IP	Port	Multicast IP	Port	
1	As per master stream file	239.70.70.41	17741	239.70.70.31	10831	20 Mbps
2	As per master stream file	239.70.70.42	17742	239.70.70.32	10832	6 Mbps
3	As per master stream file	239.70.70.43	17743	239.70.70.33	10833	15 Mbps
4	As per master stream file	239.70.70.44	17744	239.70.70.34	10834	18 Mbps
5	As per master stream file	239.70.70.45	17745	239.70.70.35	10835	40 Mbps
6	As per master stream file	239.70.70.46	17746	239.70.70.36	10836	18 Mbps
7	As per master stream file	239.70.70.47	17747	239.70.70.37	10837	40 Mbps

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8	As per master stream file	239.70.70.48	17748	239.70.70.38	10838	40 Mbps
9	As per master stream file	239.70.70.49	17749	239.70.70.39	10839	40 Mbps
10	As per master stream file	239.70.70.50	17750	239.70.70.40	10840	40 Mbps
11	As per master stream file	239.70.70.61	17761	239.70.70.71	10871	40 Mbps
12	As per master stream file	239.70.70.62	17762	239.70.70.72	10872	40 Mbps
13	As per master stream file	239.70.70.63	17763	239.70.70.73	10873	40 Mbps
14	As per master stream file	239.70.70.64	17764	239.70.70.74	10874	40 Mbps
15	As per master stream file	239.70.70.65	17765	239.70.70.75	10875	40 Mbps
16	As per master stream file	239.70.70.66	17766	239.70.70.76	10876	40 Mbps

Updated Queues to connect to the Order Book Snapshot recovery for additional Streams:

Parameters for connecting for Order Snapshot Recovery		
IP of Solace	172.28.124.40	
Port of Solace	10986	
User Name	member_fo_prod	
Password	YoEvx#9675	
Message VPN Name	od_fo_prod	
Segment	Stream ID	QUEUE NAMES
FO	1	lvq.nse.fo.od.1.orderbook
	2	lvq.nse.fo.od.2.orderbook
	3	lvq.nse.fo.od.3.orderbook
	4	lvq.nse.fo.od.4.orderbook
	5	lvq.nse.fo.od.5.orderbook
	6	lvq.nse.fo.od.6.orderbook
	7	lvq.nse.fo.od.7.orderbook
	8	lvq.nse.fo.od.8.orderbook
	9	lvq.nse.fo.od.9.orderbook
	10	lvq.nse.fo.od.10.orderbook

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	11	lvq.nse.fo.od.11.orderbook
	12	lvq.nse.fo.od.12.orderbook
	13	lvq.nse.fo.od.13.orderbook
	14	lvq.nse.fo.od.14.orderbook
	15	lvq.nse.fo.od.15.orderbook
	16	lvq.nse.fo.od.16.orderbook

General Notes applicable for all types of market data broadcast:

- *The size of broadcast indicated above is an estimated approximation and shall change depending upon the market activity. Thus, Market participants are strongly advised to monitor and adequately size their infrastructure and systems while subscribing to these feeds.*
- *With respect to using Exchange data, Members may kindly take note of Exchange circular NSE/MEM/26958 dated June 14, 2014. Exchange data can be used by Member's clients who are registered for trading with the member on the Exchange in any segment.*
- *National Stock Exchange of India Limited ("NSEIL") strongly recommends its member to build resilience and redundancy in their subscription to market data broadcast provided by NSEIL, to ensure continuity of their business operations. NSEIL has made enabling provisions for members to implement redundancies by providing two sources of data and/or data recovery mechanisms. Members shall be solely responsible for implementing and maintaining redundancy for market data broadcast subscribed from NSEIL. NSEIL shall not be held liable in any manner whatsoever including but not limited to for any disconnection, excess bandwidth utilization, related latency issues' etc. which arises out of the member's decisions on market data broadcast configurations.*