

National Stock Exchange Of India Limited
Department : MEMBER SERVICE DEPARTMENT

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All Members,

Market Data - Introduction of Order Snapshot Recovery for Multicast Tick by Tick broadcast in Currency Derivative Segment

This circular is in continuation to Exchange consolidated circular NSE/MSD/45126 dated July 24, 2020 for Market data broadcast.

Exchange is pleased to introduce an Order Book Snapshot Recovery functionality for Multicast Tick by Tick (MTBT) broadcast.

MTBT Order Book Snapshot Recovery Server provides latest picture of the order book, constructed from MTBT feed. This Order Book Snapshot is refreshed every 30 seconds. Client requesting this snapshot recovery will get all the outstanding orders in the order book till the last refresh time for a particular stream.

Please find below the parameters to connect to the Order Book Snapshot recovery:

| Parameters for connecting for Order Snapshot Recovery | | |
|---|----------------|---------------------------|
| IP of Solace | 172.28.124.42 | |
| Port of Solace | 10988 | |
| User Name | member_cd_prod | |
| Password | 48Qd5d | |
| Message VPN Name | od_cd_prod | |
| | | |
| Segment | Stream ID | QUEUE NAMES |
| CD | 1 | lvq.nse.cd.od.1.orderbook |
| | 2 | lvq.nse.cd.od.2.orderbook |

The changes shall be effective from mock of April 10, 2021 and will be available in the live environment with effect from April 12, 2021.

Important usage guidelines for connecting to Order Book Snapshot recovery:

Clients are suggested to use snapshot recovery whenever they have lost large number of ticks on multicast or they have joined the MTBT feed very late. This will reduce the time to recover all the missed ticks through recovery and build the order book up to the latest point.

At the Exchange end the snapshot recovery is disseminated through Solace Application / Hardware. The snapshot recovery needs to be requested by client applications through Solace API. After receiving the snapshot message, the client applications are supposed to disconnect. It is possible that the client applications can get disconnected during recovery of snapshot message, due to snapshot

message being refreshed at the Exchange end. In such cases client applications can again try to recover the snapshot message.

Members are expected to use 7.14 version of SOLACE API which can be downloaded from <https://solace.com/downloads/> for best experience.

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, Member's may kindly take note of Exchange circular NSE/MEM/26958 dated June 19, 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 members 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.*

For and on behalf of
National Stock Exchange of India Limited

Khushal Shah
Associate Vice President

| Toll Free No | Fax No | Email id |
|---------------|-----------------|--|
| 1800-266-0050 | +91-22-26598449 | msm@nse.co.in |