

National Stock Exchange of India Limited

Circular

Department: COMMODITY DERIVATIVES	
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All Members,

New Encryption Mechanism of Interactive Messages & Immediate Order acknowledgement

This is in reference to circular [NSE/MSD/59984](#) dated December 28, 2023, Exchange has implemented a software solution-based approach (a combination of TLS 1.3 security protocol and AES-256 bits-based symmetric encryption) for encryption of interactive message traffic between member applications and Exchange to enhance the security posture.

Exchange now proposes the following enhancements in Commodity derivatives (CO) segment which was initially released in Currency Derivatives segment:

- **Encryption of the interactive messages using AES 256 bits GCM encryption with additional authentication and**
- **Provision of immediate acknowledgment for order-related messages** - This enhancement involves the introduction of new acknowledgment messages that shall be sent instantly upon receiving an order. This immediate acknowledgment confirms that the order has been successfully received by the Exchange.

Important instructions for implementation of the above:

1. An interim coexistence phase for accepting encrypted message traffic with new and existing encryption mechanism shall be provided by the Exchange, after which Exchange shall discontinue the existing encryption mechanism.
2. Details of coexistence and migration plan for Neat Adapter and NNF users are as below:

Functionality	Date
Release of New Interactive parameters for new encryption mechanism for NEAT Adapter and NNF users	December 13, 2025
Release of new NEAT Adapter version 1.0.23 with new encryption mechanism	December 13, 2025
Discontinuation of existing version (1.0.20) of NEAT Adapter with existing encryption mechanism	To be communicated separately
Discontinuation of existing encryption mechanism for NNF users	To be communicated separately

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3. Members would require to configure below parameters for interactive session for existing and new encrypted data flows for Commodity Derivatives (CO) Segment:

Parameters		Encrypted Flow	Applicable to	Remarks
Gateway Router	IP Address	172.19.15.85	-	-
	Port	10857	NEAT, NNF Users	Existing encrypted mechanism
		10859	NEAT, NNF Users	New encryption mechanism with MD5 checksum removal
		10861	Only for NNF Users	New encryption mechanism & immediate acknowledgement of order related messages
Gateway IPs Subnet ranges	Network	172.19.15.0		
	Mask	255.255.255.128		
	Port	10850		

4. Members using NNF API protocols shall note that they can continue using the existing CA certificate as mentioned in the circular [NSE/MSD/67695](#) dated April 25, 2025.
5. For further details of implementation, members may refer the latest CO NNF API document (Version 6.3) detailing the new encryption and immediate order acknowledgement which is available on Exchange website under path: <https://www.nseindia.com/trade/platform-services-neat-trading-system-protocols>
6. For members connecting via NEAT Adapter (NA) and NEAT application, please note that new Neat Adapter (NA) version (i.e. 1.0.23) shall be released with relevant additional authentication of encrypted message flow.
7. Details of the applicable Neat Adapter (NA) version shall be communicated vide separate circular.

For and on behalf of
National Stock Exchange of India Limited

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