National Stock Exchange of India Limited

Circular

Department: MEMBER SERVICE DEPARTMENT	
Download Ref No: NSE/MSD/67068	Date: March 11, 2025
Circular Ref. No: 08/2025	

All Members,

Encryption of Interactive Messages – CA Certificate Update

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.

Further as mentioned in circular NSE/MSD/63528 dated August 22, 2024, the earlier given CA certificate has a validity of one year. In order to update the new CA certificate members are requested to follow below instructions:

1. An interim coexistence phase for accepting login via old and/or new CA certificate shall be allowed by the Exchange, after which existing CA certificate shall be expired and disallowed for login.

2. For members connecting via NEAT Adapter (NA) and NEAT application, please note that new version shall be released with relevant certificates pre-installed within the applications for encrypted flow. NA shall perform the verification of Gateway Router server certificate after successful SSL connection with Gateway Router.

3. Details of the applicable Neat Adapter (NA) and NEAT versions shall be communicated vide separate circular.

4. Members using Direct connection via NNF API protocols are requested to take note of below:
    a. Kindly download and use the new CA certificate from the extranet path before the expiry of old certificate (refer Annexure 1).
    b. Kindly configure the interactive connectivity parameters as provided in 'Annexure 2'.
    c. Kindly be advised to use combination of new CA certificate & new parameters applicable for CM, FO, CD, COM and SLBM segments to login through new CA certificate.

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5. For ease and convenience, members are requested to refer below:

Annexure 1	Extranet Path of Encryption CA Certificate
Annexure 2	Parameters for Interactive Connectivity
	FAQ on 'Encryption of interactive messages' is available on Exchange website path: https://www.nseindia.com/trade/continuous-markets-FAQs

6. All other details as mentioned in aforementioned circulars shall remain unchanged.

For and on behalf of
National Stock Exchange of India Limited

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Annexure 1

Extranet Path of Encryption CA Certificate

Members are requested to download and use the new CA certificate which shall be made available by **March 13, 2025 (EOD)** in below mentioned Extranet path. Accordingly, members shall ensure readiness of their migration plan by the given timelines:

Segment	Extranet Path of New Certificate	New Certificate Validity
CM	/common/Encryption_CA_Certificate/2025_Certificate	Upto July 05, 2026
F&O	/faoftp/faocommon/Encryption_CA_Certificate/2025_Certificate	Upto July 05, 2026
CD	/cdsftp/cdscommon/Encryption_CA_Certificate/2025_Certificate	Upto July 05, 2026
SLBM	/slbftp/slbcommon/Encryption_CA_Certificate/2025_Certificate	Upto July 05, 2026
COM	/comtftp/comtcommon/Encryption_CA_Certificate/2025_Certificate	Upto July 05, 2026

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Segment	Extranet Path of Existing Certificate	Existing Certificate Validity
CM	/common/Encryption_CA_Certificate	
F&O	/faoftp/faocommon/Encryption_CA_Certificate	
CD	/cdsftp/cdscommon/Encryption_CA_Certificate	**Upto May 03, 2025**
SLBM	/slbftp/slbcommon/Encryption_CA_Certificate	
COM	/comtftp/comtcommon/Encryption_CA_Certificate	

Annexure 2

Parameters for Interactive Connectivity for Encrypted Data Flow

New Parameters to be used with 'New CA certificate':

Segment	Gateway Router		Gateway IPs Subnet ranges		
	IP Address	New Port*	Network	Mask	Port
Capital Market (CM)	172.19.12.85	**10817**	172.19.12.0	255.255.255.128	10810
Futures & Options (FO)	172.19.13.85	**10827**	172.19.13.0	255.255.255.128	10820
Currency Derivatives (CD)	172.19.18.85	**10877**	172.19.18.0	255.255.255.128	10870
Securities Lending & Borrowing Market (SLBM)	172.19.14.85	**10887**	172.19.14.0	255.255.255.128	10860
Commodity Derivatives (COM)	172.19.15.85	**10857**	172.19.15.0	255.255.255.128	10850

Existing parameters for **'Existing CA certificate'** which shall be discontinued are below:

Segment	Gateway Router		Gateway IPs Subnet ranges			Discontinuation Date
	IP Address	Existing Port	Network	Mask	Port	
CM	172.19.12.85	10819	172.19.12.0	255.255.255.128	10810	
FO	172.19.13.85	10829	172.19.13.0	255.255.255.128	10820	
CD	172.19.18.85	10879	172.19.18.0	255.255.255.128	10870	**May 03, 2025 (mock)**
SLBM	172.19.14.85	10889	172.19.14.0	255.255.255.128	10860	
COM	172.19.15.85	10859	172.19.15.0	255.255.255.128	10850	