

National Stock Exchange of India Limited

Circular

| Department: MEMBER SERVICE DEPARTMENT | |
|---------------------------------------|-------------------------|
| Download Ref No: NSE/MSD/59984 | Date: December 28, 2023 |
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All Members,

Encryption/Decryption of Interactive Messages – Rollout Plan Update

This is in reference to circulars [NSE/CMTR/59089](#), [NSE/FAOP/58695](#), [NSE/CD/58901](#), [NSE/COM/57478](#) and [NSE/SLBS/59439](#), 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.

Important instructions for implementation of the above:

- Currently, Exchange has provided an interim coexistence phase for accepting both encrypted and non-encrypted message traffic, after which Exchange shall discontinue the non-encrypted message flow.
- Member are requested to take note of below coexistence timelines and shall ensure readiness of their migration plan for Direct connection via NNF for handling the changes of Encryption interactive messages. There shall not be any further extension given on the below timelines.

| Segment | Released in LIVE Environment | Discontinuation of non-encrypted flow in LIVE Environment |
|---------|------------------------------|---|
| FO | October 09, 2023 | March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |
| CD | October 16, 2023 | March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |
| CM | November 06, 2023 | March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |
| CO | July 10, 2023 | March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |
| SLBM | December 04, 2023 | March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |

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3. Members using via Direct connection via NNF API protocols shall be required to download CA certificate for validation of Gateway Router server certificate from the extranet path (refer to Annexure 3 of this circular).
4. Direct connection users shall note that the above CA certificate has a validity of one year. Hence such users are requested to re-download and use the updated CA certificate from the extranet path before the expiry of old certificate. The new CA certificate shall be available for download from one month before the expiry of the current certificate (refer to Annexure 3 of this circular). The releases regarding new CA certificate shall be communicated via separate circular.
5. All members are requested to uninstall the existing NEAT Adapter version and use the latest version of NEAT Adapter (NA) version as informed in Exchange circular [NSE/MSD/59551](#) dated November 29, 2023.

| Login through | Segment | Supported for Encryption Data flow | Dates |
|--|-------------------------------|------------------------------------|---|
| New NEAT Adapter application Version 1.0.18 for Windows Neat Adapter Version 1.0.18 for Linux Neat Adapter | SLBM, CM, CD, F&O & COM | Yes | Mandatory from March 02, 2024 (mock) i.e. LIVE from March 04, 2024 |

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

| | |
|------------|--|
| Annexure 1 | Parameters for Interactive Connectivity for Encrypted Data Flows |
| Annexure 2 | Extranet Path of NEAT Adapter (NA) Version |
| Annexure 3 | Extranet Path of Encryption CA Certificate |
| Annexure 4 | FAQ on 'Encryption of interactive messages' |

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

For and on behalf of
National Stock Exchange of India Limited

Khushal Shah
Associate Vice President

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Annexure 1

Parameters for Interactive Connectivity for Encrypted Data Flow

| Segment | Gateway Router | | Gateway IPs Subnet ranges | | |
|--|----------------|-------|---------------------------|-----------------|-------|
| | IP Address | 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 |
| Commodity Derivatives (CO) | 172.19.15.85 | 10857 | 172.19.15.0 | 255.255.255.128 | 10850 |
| Securities Lending & Borrowing Market (SLBM) | 172.19.14.85 | 10887 | 172.19.14.0 | 255.255.255.128 | 10860 |

Annexure 2

Extranet Path of NEAT Adapter (NA) Version

| Sr. No | Setup Name | Description | Segment | Extranet path |
|--------|--|--|-------------------------|---|
| 1 | NA_1.0.18_Setup.exe Register_Installer.bat | Version 1.0.18 for Windows Neat Adapter | SLBM | /slbftp/slbcommon/NeatAdapter/ Windows |
| | | | Capital Market | /common/NeatAdapter/Windows |
| | | | Futures & Options | /faoftp/faocommon/NeatAdapter/ Windows |
| | | | Currency Derivatives | /cdsftp/cdscommon/NeatAdapter/ Windows |
| | | | Commodity | /comtftp/comtcommon/NeatAdapter/ Windows |
| 2 | NA_1.0.18_Setup.sh, NA_1.0.18_SetupFiles .zip Register_Installer.sh | Version 1.0.18 for Linux Neat Adapter | SLBM | /slbftp/slbcommon/NeatAdapter/Linux |
| | | | Capital Market | /common/NeatAdapter/Linux |
| | | | Futures & Options | /faoftp/faocommon/NeatAdapter/Linux |
| | | | Currency Derivatives | /cdsftp/cdscommon/NeatAdapter/ Windows |
| | | | Commodity | /comtftp/comtcommon/NeatAdapter/ Linux |

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Annexure 3 Extranet Path of Encryption CA Certificate

| Segment | Path | Certificate Validity |
|---------|---|----------------------|
| CM | /common/Encryption_CA_Certificate | Upto July 18, 2024 |
| F&O | /faoftp/faocommon/Encryption_CA_Certificate | Upto July 18, 2024 |
| CD | /cdsftp/cdscommon/Encryption_CA_Certificate | Upto July 18, 2024 |
| COM | /comtftp/comtcommon/Encryption_CA_Certificate | Upto June 30, 2024 |
| SLBM | /slbftp/slbcommon/Encryption_CA_Certificate | Upto July 18, 2024 |