

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:

1. 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.
2. 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

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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