National Stock Exchange of India Limited

Circular

Department: MEMBER SERVICE DEPARTMENT	
Download Ref No: NSE/MSD/60726	Date: February 15, 2024
Circular Ref. No: 11/2024	

All Participants,

Implementation of TLS 1.2 (only with strong ciphers) and TLS 1.3

TLS (Transport Layer Security) is the protocol which secures HTTPS. TLS provides secure communication between web browsers and servers.

To enhance the security of data and communications, it has been decided to permit TLS 1.2 (only with strong ciphers) and TLS 1.3 protocols for Extranet API.

With this background and considering the implications, all members are requested to implement one of the following:

1. Upgrade the browsers to the latest versions.
    a. Google's Chrome - https://www.google.com/chrome/
    b. Mozilla's Firefox - https://www.mozilla.org/en-US/firefox/new/
    c. Microsoft's Edge – https://www.microsoft.com/en-in/edge/download?form=MA13FJ
2. For members connecting to the application using any other variant of clients (like for making API call), members are requested to check and make necessary changes at their end so that client supports connections over TLS 1.2 (only with strong cipher) and/or TLS 1.3.

All market participants are requested to know that (https://ims.connect2nsccl.com/MemberPortal/ , https://www.connect2nse.com/extranet-api/ and https://172.19.125.70:443/extranet-api) applications would only support communication over TLS 1.2 (only with strong cipher) and/or TLS 1.3 with effect from February 29, 2024.

The necessary changes are made in UAT setup to test the compatibility of your systems/applications to support strong cipher suits for Extranet API application.

For ease and convenience to access UAT environment, member may refer to FAQ for Extranet API which is available on https://www.nseindia.com/trade/members-faqs-extranet-facility .

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Reference links:

a) https://security.googleblog.com/2018/10/modernizing-transport-security.html
b) https://www.ssl.com/article/tls-1-3-is-here-to-stay/
c) https://blog.mozilla.org/security/2018/10/15/removing-old-versions-of-tls/
d) https://kinsta.com/blog/tls-1-3/

Disclaimer:

1. The information contained in this notice has been extracted from the reference links as above
2. Members shall act upon this notice at their own discretion after conducting appropriate impact/risk analysis to their specific environment. Please test all the settings in a test environment before deploying on production environment.

For and on behalf of
National Stock Exchange of India Limited

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