

This provides responses to comments JTC1 ballot of ISO/IEC/IEEE FDIS 8802-1Q

The voting results on ISO/IEC/IEEE FDIS 8802-1Q:

- Support need for ISO standard? Passed 11/0/7
- 1 comment with the China NB Abstain vote.
- 1 set of (4) comments with the India NB Approve vote.

The comments have been processed in a timely manner using the mechanisms defined and agreed in 6N15606. This document provides the responses from IEEE 802 to the comments by China NB on this ballot.

China NB comment 1 on ISO/IEC/IEEE FDIS 8802-1Q:

ISO/IEC/IEEE FDIS 8802-1Q (Ed 2), which is IEEE 802.1Q-2022, has incorporated IEEE 802.1Q-2018 and its 5 amendments.

Regarding IEEE 802.1Q-2018, China NB has already submitted the comments during its 60-day ballot and FDIS ballot against the references to IEEE 802.1X, which has security problems including lack of specifications on pre-established trusted channel which IEEE 802.1X security is relying on, failing to achieve a real mutual authentication between the Supplicant and Authenticator, lack of independent identity for Authenticator resulting in losing the basic credential of identity legitimacy, etc.

However, there are no further steps taken in this new 2022 version to resolve those comments. IEEE 802.1X is still the normative reference in IEEE 802.1Q-2022 and IEEE 802.1X is used in Clause 8.13.9, 10.1, 25.2, 25.6 etc..

Proposed Change:

Delete the references to IEEE 802.1X in this standard.

IEEE 802 response to CN.1 on ISO/IEC/IEEE FDIS 8802-1Q:

As IEEE 802 has previously communicated, IEEE Std 802.1Q (ISO/IEC/IEEE 8802-1Q:2020) explains how it can be used in conjunction with IEEE Std 802.1X-2020 (approved as ISO/IEC/IEEE 8802-1X:2021). IEEE Std 802.1Q is not based on nor does it depend on the use of IEEE Std 802.1X-2020. It is provided as an illustrative example to provide additional security through port-based network access control. Specifically, IEEE Std 802.1X may be used to provide a further level of control over the connectivity provided by a Bridge Port to the MAC Relay Entity and the Higher Layer Entities within a Bridge.

Furthermore, IEEE 802 believes that none of the alleged security problems asserted by the China NB have been shown to be valid. In spite of numerous communications and requests for further technical information about the vague claims of “security problems” in IEEE 802 security standards since 2013, the China NB has not substantiated their assertions. The history of the security technology discussion can be found in documents SC6N17493 and SC6N17741. The documents referenced in the China NB ballot (6N15494 and 6N15556) date from 2012 and 2013 and responses to comments were submitted from IEEE 802 at that time. The general assertions raised in the China NB’s ballot were discussed at length in 2013 at an IEEE 802 meeting in Geneva (with IEEE 802 and Switzerland NB representatives in attendance) and in both 2013 and 2014 at SC6 meetings in Seoul and Ottawa (with IEEE 802, China NB and Switzerland NB representatives in attendance). During those meetings, IEEE 802 fully responded to all claims made by both the China NB and Switzerland NB representatives and provided additional

information about the design and specification of IEEE 802 technologies. Since that time, however, the China NB has not substantiated these assertions, despite numerous requests from IEEE 802.

The invitation for a representative of the China NB (as well as representative from other interested SC6 NBs) to attend an IEEE 802 Plenary session remains open.

IEEE 802 believes that the alleged security defects asserted by the China NB are not valid. Without technical substantiation of any related concerns, IEEE 802 cannot consider modification of the existing IEEE 802 standards.

India NB comments on ISO/IEC/IEEE FDIS 8802-1Q:

IN01 - Clause 3.1

Readability – Traffic Engineering service instances (TESIs)

In line with the abbreviation TESI, “s” and “r” to be written in capitals.

IN02 – Clause 3.76

Readability – edge relay (ER)

In line with the abbreviation ER, “e” and “r” to be written in capitals.

IN03 – Clause 5.4.1.9

Readability – Cyclic queuing and forwarding (CQR)

In line with the abbreviation CQR, “q” and “r” to be written in capitals.

IN04 – Clause 8.13.5.1

Readability – In Para 3, first sentence – Delete “both”

Para 4, first sentence – Delete “As” and make “a” capital/

IEEE 802 response to India NB comments on ISO/IEC/IEEE FDIS 8802-1Q:

IEEE 802 thanks the India National Body for the detailed review and comments. The working group will use these comments as input and review in an upcoming revision for this standard.