INTERNATIONAL TELECOMMUNICATION UNION
TELECOMMUNICATION STANDARDIZATION SECTOR
STUDY PERIOD 2022-2024

SG15-LS121
STUDY GROUP 15
Original: English

Question(s): 2, 5, 6/15 Montreal, Canada, 1-12 July 2024

LS

Source: ITU-T Study Group 15

Title: LS on revision of Recommendation G.652

LIAISON STATEMENT

For action to: -

For information to: IEEE 802.3 Ethernet Working Group

Approval: ITU-T SG15 meeting (Montreal, 12 July 2024)

Deadline: -

Contact: Kazuhide Nakajima
NTT
Japan
Tel: [redacted]
E-mail: [redacted]

Contact: Fabio Cavaliere
Telefon AB - LM Ericsson
Sweden
Tel: [redacted]
E-mail: [redacted]

Contact: Frank Effenberger
Futurewei Technologies
USA
E-mail: [redacted]

Abstract: This is a liaison to announce the revision of Recommendation G.652. Information on the statistical chromatic dispersion properties in a link composed of 1 to 16 cable pieces is included in Appendix I of the revised Recommendation G.652.

ITU-T SG15 thanks the IEEE 802.3 Ethernet Working Group for the two liaisons contained in TD296/G and TD330/G regarding the properties of G.652 fibres.

TD296/G was discussed during the Q6/15 interim meeting in Berlin, 16 – 18 April 2024. According to the request from IEEE 802.3, ITU-T SG15 conducted additional examinations on the statistical chromatic dispersion by considering different confidence levels (99.99%, 99.9%, and 99%) and some specific wavelengths (1264.5 nm, 1337.5 nm, 1294.53 nm, and 1310.19 nm) of relevance to IEEE 802.3. The examination results were initially reported during the joint correspondence discussion among the ITU-T Q2/15, Q5/15, and Q6/15 experts prior to the July 2024 ITU-T SG15 meeting as described in TD194/2 (input from Editor on 4 June).

TD330/G was investigated during the July 2024 ITU-T SG15 Plenary Meeting. ITU-T SG15 agreed that the latest information from IEEE 802.3 on the statistical chromatic dispersion properties would be considered at a future meeting with the intent to further refine the methodology for statistical link design.

We would like to inform IEEE 802.3 that the approval process for revised Recommendation G.652 (TD375R2/P) was initiated in the July 2024 SG15 meeting. In this revised Recommendation,

information on statistical chromatic dispersion coefficients in a link composed of 1 to 16 cable pieces is included. We would further note that each of the eight fibre manufacturers participating in this examination used enough raw data pairs of zero-dispersion wavelength and zero-dispersion slope to be statistically significant. ITU-T SG15 appreciates continuous harmonization with IEEE 802.3 to further improve the methodology for statistical link design.

Attachments TD194/WP2, TD375R2/P