



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
STANDARDIZATION SECTOR**

STUDY PERIOD 2017-2020

SG15-LS42
STUDY GROUP 15
Original: English

Question(s): 6, 7, 10, 11, 12, 13/15

Geneva, 19-30 June 2017

Ref. SG15-TD29R1/PLEN Annex D

Source: ITU-T Study Group 15

Title: Reply to LS on asymmetry evaluation (reply to IEEE 1914 - OLS3 (19 May 2017))

LIAISON STATEMENT

For action to:

For comment to:

For information to: IEEE1914

Approval: ITU-T SG15 meeting (Geneva, 30 June 2017)

Deadline: -

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Q11/15 and Q13/15 thank IEEE 1914 for your liaison *LS/i to Question 13/11 on asymmetry evaluation*.

Control of asymmetry in transport networks is required in order to meet the performance requirements of timing protocols such as PTP.

We therefore acknowledge the importance to provide tools for automatic calibration of the link asymmetry in transport networks, both in case of unidirectional and bi-directional fibres, due to different fibre lengths (unidirectional case) and different wavelength (both cases) in the two directions.

This topic was addressed by Q13/15 in the past in cooperation with Q6/15, and the results are captured in the published version of G.8271 (ref.1); in particular, the relevant clauses are: Appendix III, Asymmetry compensation for use of different wavelengths, and Appendix IV, Link and network asymmetry compensation.

Q11/15 and Q13/15 consider of interest to investigate more in details potential implementations of the solutions described in general terms in Appendix III and IV of G.8271 (e.g. analysing the feasibility or complexity of the potential solutions) and for this purpose we are verifying what actions would be required. This work would be performed in cooperation with other concerned Questions in SG15 (Q6/15 and Q7/15).

References

- [1] ITU-T G.8271, *Time and phase synchronization aspects of packet networks*, ITU-T Q13/15, February 2012, <http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11527>
- [2] ITU-T G.8271 Amd1, *Timing characteristics of enhanced primary reference time clocks*, Amendment 1

Attachment: consented G.8271 Amd1 (TD82-R1/PLEN)
