Question(s):	13/15	Geneva, 1-12 July 2019

LS

Source:	ITU-T Study Group 15	
Title:	LS on clarification on synchronization requirements applicable in IEEE 802.1CM and CPRI related documents	

LIAISON STATEMENT

For action to:	**IEEE 802.1, CPRI Cooperation**	
For comment to:		
For information to:		
Approval:	**ITU-T SG15 (12 July 2019)**	
Deadline:	7 October 2019	
Contact:	Stefano Ruffini Telefon AB - LM Ericsson Sweden	E-mail: stefano.ruffini@ericsson.com
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Q13/15 thanks IEEE 802.1 for the liaison "LS/i on the "Category A+" TAE Requirement " (IEEE 802.1-LS46).

Q13/15 is currently working at synchronization aspects applicable to Ethernet-based fronthaul and the information included in the liaison was taken as input to the related discussions.

In particular, the budgeting of the time error in different parts of the fronthaul network is one main aspect being discussed. This is being addressed in the new Appendix XII of G.8271.1, "Examples of design options for fronthaul and clusters of base stations". Amendment 2 to G.8271.1 has been consented at this SG15 meeting.

Q13/15 understands that relevant updates are being made on this topic within the P802.1CMde project to amend IEEE Std 802.1CM ("Enhancements to Fronthaul Profiles to Support New Fronthaul Interface, Synchronization, and Syntonization Standards").

Q13/15 would like to ask CPRI Cooperation and IEEE 802.1 for any update in this area.

In particular,

-to IEEE 802.1:
- What is the status in terms of the applicable time synchronization requirements and of the related assumptions

-    What time error budget is being considered for the eRE for the various use cases (synchronization categories) and for both cases of integrated PTP clock and external PTP clock ("Case 1.1" ,"Case 1.2" and "Case 2"). What are the normative and the informative contents of your specification?

Q13 would also be interested in receiving a draft of the IEEE 802.1CMde as soon as you consider it suitable to be shared.

-to the CPRI Cooperation:
-    What is the status with the "eCPRI Transport Network requirements" document? Are there any plans for updating the synchronization requirements included in this document?
-    Are there any parts of the synchronization requirements included in the "eCPRI Transport Network requirements" document that should be only considered as examples?

We look forward to continued fruitful cooperation.

Reference:
1)   G.8271.1 , Network limits for time synchronization in packet networks

Attachment **TD354/P Rev 1** (G.8271.1 Amd2)

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