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STUDY GROUP 15
Original: English
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Montreal, Canada, 1-12 July 2024

CONTRIBUTION

Source: IEEE

Title: Proposal to publish IEEE Std 802.3 as an ITU-T Recommendation through referencing

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Abstract: This contribution contains the A.1 justification for the proposed draft new Recommendation ITU-T **Y.xyz** "Ethernet"

Discussion

There has been long-standing cooperation between IEEE 802.3 and ITU-T SG15 including many liaison communications and joint workshops. An example of the results of this cooperation is the encoding of high-speed optical IEEE 802.3 Ethernet to enable transparent transport of Ethernet across the Optical Transport Network specified by ITU-T SG15 avoiding cost for the user. In addition, ITU-T SG15, as well as ITU-T SG5, extensively references IEEE 802.3, but that currently requires an ITU-T A.5 reference justification for every instance of such a reference. The cooperation can be built upon, and the need for ITU-T A.5 reference justification avoided, if the IEEE 802.3 Ethernet standard were to be available as an ITU-T document. This contribution, therefore, proposes making the IEEE 802.3 Ethernet standard available as an ITU-T Recommendation through referencing of IEEE Std 802.3-2022 'IEEE Standard for Ethernet' and its approved amendments.

As IEEE Std 802.3 continues to evolve over time, it will likewise be necessary to update Recommendation **Y.xyz**. The IEEE 802.3 Working Group will communicate of updates to IEEE Std 802.3 via liaison statements. We expect this will then trigger the editor(s) of **Y.xyz** to prepare draft revisions or amendments to the ITU-T Recommendation referencing IEEE 802.3 for consent

Proposal

A work item for new Recommendation **Y.xyz** should be initiated. A draft A.1 justification is in Annex A of this contribution.

Annex A – A.1 justification

A.1 justification for proposed draft new ITU-T **Y.xyz** "Ethernet"

Question:	ALL/15	Proposed new ITU-T Recommendation	Montreal, Canada, 1-12 July 2024	
Reference and title:	ITU-T Y.xyz "Ethernet"			
Base text:	SG15-C nnn	Timing:	2024-??	
Editor(s):	Tom Huber, Nokia, [REDACTED]	Approval process:	AAP	
<p>Scope (defines the intent or object of the Recommendation and the aspects covered, thereby indicating the limits of its applicability):</p> <p>This Recommendation defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer devices (PHYs). The Physical Layer encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include: control and management protocols, and the provision of power over selected twisted pair PHY types.</p>				
<p>Summary (provides a brief overview of the purpose and contents of the Recommendation, thus permitting readers to judge its usefulness for their work):</p> <p>This Recommendation defines Ethernet through referencing of IEEE Std 802.3-2022 'IEEE Standard for Ethernet' and its approved amendments.</p>				
<p>Relations to ITU-T Recommendations or to other standards (approved or under development):</p> <p>G.709, G.709.1, G.709.5, G.8023, G.8010</p>				
<p>Liaisons with other study groups or with other standards bodies:</p> <p>IEEE 802.3 Ethernet Working Group</p>				
<p>Supporting members that are committing to contributing actively to the work item:</p> <p>IEEE, [others?]</p>				