Approved by 802.3 on 11/18/2004

PAR Title

- Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements Part 3: Carrier sense multiple access with collision detection (CSMA/CD) Amendment: frame format extensions

Approved by 802.3 on 11/18/2004

PAR Scope

- Specify the IEEE 802.3 frame format when optional envelope information is present while preserving the original MAC service data unit. Also, specify minimal related adjustments to IEEE 802.3 Media Access Control (MAC) parameters, MAC client service interface and management attribute definitions.

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PAR Purpose

- The purpose of this project is to extend the maximum size IEEE 802.3 frame and to refine the frame format to accommodate the existing IEEE 802.3 QTag Prefix, and other applications requiring envelope information such as IEEE 802.1ad Provider Bridges and IEEE 802.1AE MACSec.

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PAR (justification)

- *14a. Please give the specific reason for the standardization project, with particular emphasis on the problem being solved, the benefit to be received and target users or industries.*

- **There are multiple new projects – both inside and outside IEEE 802 – defining applications that require additional optional fields within Ethernet frames, but do not require a larger data field. These are all driving the need to solidify a standards-based, interoperable, extensible frame format.**
- **The market includes the existing large installed-base of Ethernet users interested in emerging and future developments such as Provider Bridges, link security and Ethernet transport/encapsulation.**

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PAR (overlap question)

- *16. Are there other documents or projects with a similar scope?*
  No (attach explanation).

- *19. Additional explanation*

- **16- IEEE 802.1ad Provider Bridges and IEEE 802.1AE MACSec are specifying added prefix and suffix fields within their scope.**

  ITU-T SG15 is specifying Ethernet transport services, encapsulations and interfaces (e.g., UNI, NNI) within their scope.

  The project proposed in this PAR will address related items which are within the scope of IEEE 802.3 Working Group.