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1. ASSIGNED PROJECT NUMBER: 802.3ar

2. SPONSOR DATE OF REQUEST: 2004-07-19

3. TYPE OF DOCUMENT: Standard

4. TITLE OF DOCUMENT: 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

5. LIFE CYCLE: Full-Use

6. TYPE OF PROJECT: Amendment 802.3

Modified PAR?
In Ballot?

7. WORKING GROUP INFORMATION

Name of Working Group: IEEE 802.3 CSMA/CD (Ethernet)
Approximate Number of Expected Working Group Members: 200

8. CONTACT INFO FOR WORKING GROUP CHAIR

Name of Working Group Chair: Bob Grow
Telephone: 858-391-4622
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9. CONTACT INFO OF CO-CHAIR/OFFICIAL REPORTER

Name of Co-Chair/Official Reporter:
Telephone:
FAX:
E-mail:

10. CONTACT INFO OF SPONSOR

Sponsor: C/LM
Name of Sponsor Chair: Paul Nikolich
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E-mail: p.nikolich@ieee.org

Standards Coordinator (Power Engineering Society Only):
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Name:
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CO-SPONSOR INFORMATION (THIS IS BEING SPONSORED BY TWO SPONSORS):

Cosponsor:
Name of Cosponsor Chair:
Telephone:
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Standards Coordinator for Cosponsor (Power Engineering Society Only):

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11. TYPE OF SPONSOR BALLOT: Individual

Expected Date of Submission for Initial Sponsor Ballot: 2005-03-01

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM:
2005-05-01

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

Completion of this document contingent? No

14. PURPOSE: The purpose of this project is to extend the size of the IEEE 802.3 frame format to accommodate IEEE 802.1ad Provider Bridging, IEEE 802.1AE MACSec and other applications requiring envelope information.

14a. Reason: 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 Bridging, link security and Ethernet transport/encapsulation.

15. INTELLECTUAL PROPERTY:

Patent Policy: Yes
Copyrights: No
Trademarks: No
Registration of Object: Yes Management arcs will be allocated under the existing 802.3 hierarchy of arcs.

16. SIMILAR SCOPE: No

17. FUTURE ADOPTION - INTERNATIONAL SPONSOR: Yes

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18. FOCUS ON HEALTH, SAFETY OR ENVIRONMENTAL ISSUES:

Explanation:

19. ADDITIONAL NOTES: 6 - This amendment at time of sponsor ballot will be to the then current revision of IEEE 802.3 as amended. (P802.3REVam revision publication is expected late 2004 or early 2005, but the project is not contingent on completion of P802.3REVam.) 7 - IEEE 802.3 voting membership at PAR submission is 200+ individuals from 120+ entities. 16- IEEE 802.1ad Provider Bridging and IEEE 802.1AE MACSec are specifying added prefix and suffix fields within their scope. ITU-T SG15 Q12 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.

I acknowledge having read and understood the IEEE Code of Ethics I agree to conduct myself in a manner which adheres to the IEEE Code of Ethics when engaged in official IEEE business.

REVIEWED & SUBMIT

The PAR Copyright Release and Signature Page must be submitted either by FAX to 208-460-5300 or as e-mail attachment in .pdf format to the [NesCom Administrator](#) before this PAR will be sent on for NesCom and Standards Board approval.