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1. ASSIGNED PROJECT NUMBER: 802.3at

2. SPONSOR DATE OF REQUEST: 21-Mar-2005

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) Access Method and Physical Layer Specifications Amendment: Enhancements for Digital Media Applications in Residential Networks

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) Working Group
Approximate Number of Expected Working Group Members: 200

8. CONTACT INFO FOR WORKING GROUP CHAIR

Name of Working Group Chair: Robert Grow
Telephone: 858-391-4622
FAX: 858-391-4657
E-mail: bob.grow@ieee.org

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
Telephone: 857-205-0050
FAX: 781-334-6524
E-mail: p.nikolich@ieee.org

11. TYPE OF SPONSOR BALLOT: Individual

Expected Date of Submission for Initial Sponsor Ballot: Sep-2007

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM: Feb-2008

13. SCOPE: This project will provide time-sensitive delivery of data transmissions between synchronized end points over existing point-to-point full duplex PHYS on a plug-and-play basis. Support of such time-sensitive data transmissions may use admission control negotiations to guarantee bandwidth allocations with predictable latency, low-jitter delivery and clock synchronization.

Completion of this document contingent upon another document? Yes
This PAR includes work on independent capabilities, and some of the work is not contingent on another project. The complete capabilities and benefits envisioned in Ethernet networks through Residential Ethernet capabilities will include both 802.3 and 802.1 work. Serialization of the projects would unnecessarily delay market introduction of the capabilities.

14. PURPOSE: This project will allow Ethernet to support the requirements of consumer electronics devices in the transport of digital media.

15. REASON: "Residential Ethernet" networks represent a new and very broad application space for Ethernet. The digital networking port* on consumer electronics (96 billion USD in 2003) equipment has not yet been decided, and 802.3/Ethernet has a strong possibility of being the dominant, long-term solution of choice if it also provides isochronous services. *The overall market for home networking semiconductors will grow 12% per year from 2004 to 2008, moving from \$1.34 billion in the beginning of the forecast to \$2.32 billion at the end of the forecast. This growth will come despite decreasing prices on a per unit basis, as the average price for a home networking IC will decline from \$8 in 2004 to \$5 in 2008. This increase in revenues despite downward pressure on pricing shows how the overall unit momentum throughout the forecast period will create a "rising tide" for the connected home silicon market (the market will go from 174 million ICs shipped in 2004 to 458 million in 2008). - Instat

16. INTELLECTUAL PROPERTY:

IEEE-SA Policy on Intellectual Property Presented: Yes 24-Jan-2005
Copyrights: No
Trademarks: No
Registration of Object: No

17. SIMILAR SCOPE: No**18. FUTURE ADOPTION:** Yes

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19. Health, Safety or Environmental Issues: No

Explanation:

20. SPONSOR INFORMATION:

a. Is the scope of this project within the approved scope/definition of the Sponsor's Charter?

Yes

Explanation:

b. Sponsor's procedures accepted by AudCom: Yes

21. ADDITIONAL NOTES:

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.

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The PAR Copyright Release and Signature Page must be submitted either by FAX to 732-875-0695 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.