

Modifications to IEEE 802.3 HSSG PAR to include 40 G

(added text is underlined)

Howard Frazier
IEEE 802.3 HSSG
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Supporters

- Schelto Van Doorn – Intel
- Ilango Ganga – Intel
- Shimon Muller – Sun
- Andy Bechtolsheim – Sun
- Osamu Ishida – NTT
- Shoukei Kobayashi – NTT
- Paul Kolesar – CommScope
- Bruce Tolley – Solarflare
- David Martin – Nortel
- Ali Ghiasi – Broadcom
- Petar Pepeljugoski – IBM

PAR Title

IEEE Standard for 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: Media Access Control Parameters, Physical Layers and Management Parameters for 40 and 100 Gb/s Operation

PAR Scope

Define 802.3 Media Access Control (MAC) parameters, physical layer specifications, and management parameters for the transfer of 802.3 format frames at 40 and 100 Gb/s.

PAR Purpose

The purpose of this project is to extend the 802.3 protocol to operating speeds of 40 and 100 Gb/s in order to provide a significant increase in bandwidth while maintaining maximum compatibility with the installed base of 802.3 interfaces, previous investment in research and development, and principles of network operation and management. The project is to provide for the interconnection of equipment satisfying the distance requirements of the intended applications.

PAR Need

The project is necessary to provide a solution for applications that have been demonstrated to need bandwidth beyond the existing capabilities. These include data center, internet exchanges, high performance computing and video on demand delivery.