

**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:
Physical Layer Specifications and Management Parameters for
10 Gb/s Passive Optical Networks**

NOTE—The editing instructions contained in this amendment define how to merge the material contained therein into the existing base standard and its amendments to form the comprehensive standard.

NOTE—The editing instructions are shown in ***bold italic***. Four editing instructions are used: change, delete, insert, and replace. ***Change*** is used to make corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed by using ~~strike through~~ (to remove old material) and underscore (to add new material). ***Delete*** removes existing material. ***Insert*** adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. ***Replace*** is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one. Editorial notes will not be carried over into future editions because the changes will be incorporated into the base standard.

Editors Note: to be removed prior to release

References:

None

Revision history:

Draft 1.1, March 2008. Draft for review in IEEE 802.3av Task Force

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1 **1. Introduction**

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4 **1.4 Definitions**

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6 *Replace definition 1.4.93 to read as follows:*

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8 **1.4.93 channel insertion loss:** As used in IEEE 802.3–2005 Clause 38, Clause 52, Clause 53, Clause 58,
9 Clause 59, Clause 60, Clause 68 and Clause 91 for fiber optic links, the loss of light through a link between
10 a transmitter and receiver. It includes the loss of the fiber, connectors, splices and optional power splitter /
11 combiner (for details, see Clause 91.8.1).

12
13 *Insert after 1.4.35 10GBASE–LX4, renumber as appropriate*

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15 **1.4.36 10GBASE–PR:**IEEE 802.3 Physical Layer specification for a 10 Gb/s point to multipoint link over
16 one single–mode optical fiber, with a reach of up to 10 km. (See IEEE 802.3 Clause 91, Clause 92 and
17 Clause 93).

18
19 *Insert after 1.4.41 10GBASE–X, renumber as appropriate*

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21 **1.4.42 10/1GBASE–PRX:**IEEE 802.3 Physical Layer specification for a 10 Gb/s upstream, 1 Gbps down-
22 stream asymmetrical point to multipoint link over one single–mode optical fiber, with a reach of up to 10
23 km. (See IEEE 802.3 Clause 91, Clause 92, Clause 93 and Annex 93A).

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25 **1.5 Abbreviations**

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27 *Insert a new abbreviation to the list, sort the list alphabetically:*

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29 SCB Single Copy Broadcast
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