Comment 69
802.3.1b D1.0

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Changes

- [1] IEEE Std 802.1AB-2019 and IEEE Std 802.3-2008 should be added to Annex A 'Bibliography'.

- [3] The text '... of IEEE Std 802.1AB™-2009.g In ...' in the 'Introduction' should be changed to read '... of IEEE Std 802.1AB™-2009 [BXX]. In ...' and footnote 'g' that reads 'Information on references can be found in Clause 2.' should be deleted with the following footnote 'h' reassigned to be footnote 'g'.

- [2] The text '... in IEEE Std 802.3™-2008, which ...' in the 'Introduction' should be changed to read '... in IEEE Std 802.3™-2008 [BXX]g, which ...' where the 'g' after IEEE Std 802.3™-2008 [BXX] is a link to the footnote that reads 'The numbers in brackets correspond to those of the bibliography in Annex A.'.

- [4] The text '... Annex F of IEEE Std 802.1AB™-2009,1 ...' should be changed to read '... Annex F of IEEE Std 802.1AB™-2009 [BXX], ...' and footnote '1' that reads 'Information on references can be found in Clause 2.' should be deleted with the following footnote 2 renumbered to footnote 1.

- [5] The text '... Annex 30A and Annex 30B of IEEE Std 802.3™-2008, ...' should be changed to read '... Annex 30A and Annex 30B of IEEE Std 802.3™-2008 [BXX]2, ...' where the '2' after IEEE Std 802.3™-2008 [BXX] is a link to the footnote that reads 'The numbers in brackets correspond to those of the bibliography in Annex A.'.

- [6] The text '... to section 7 of IETF RFC 3410.' of subclause 1.3 'Internet-Standard Management Framework' should be changed to read '... to section 7 of IETF RFC 34102.' where the '2' after IETF RFC 3410 is a link to a new footnote 2 that reads 'Information on references can be found in Clause 2.'.

- [7] The dated normative reference that reads 'IEEE Std 802.1AB™-2009, IEEE Standard ...' in Clause 2 'Normative references' should be changed to an undated normative reference that reads 'IEEE Std 802.1AB™, IEEE Standard ...'.

- [8] The dated reference that reads '... is defined in IEEE Std 802.1AB-2009, Station ...' in Clause 5 'Ethernet logical link discovery protocol (LLDP) extension MIB module' should be changed to read '... is defined in IEEE Std 802.1AB, Station ...'.

Proposed Introduction

The initial version of this standard provided Management Information Base (MIB) module definitions that superseded and made obsolete the Guidelines for the Definition of Managed Objects (GDMO) MIB modules defined in Annex 30A and Annex 30B of IEEE Std 802.3™-2008 {BXX]1, and Structure of Management Information version 2 (SMIv2) MIB modules defined in Annex F.6 of IEEE Std 802.1AB™-2009 [BXX], IETF RFC 2108 [B19], IETF RFC 3621 [B26], IETF RFC 3635 [B28], IETF RFC 3637 [B29], IETF RFC 4836 [B34], IETF RFC 4837 [B35], IETF RFC 4878 [B36], and IETF RFC 5066 [B37].

The first revision of this standard updated the SMIv2 MIB modules to support IEEE Std 802.3 amendments published since IEEE Std 802.3.1 was first published in 2011 and removed the GDMO MIB modules except the associated branch and leaf assignments which are used in IEEE Std 802.3 for Variable Request operations, administration, and maintenance protocol data units (OAMPDU).

This second revision of this standard updates the SMIv2 MIB modules to support IEEE Std 802.3 amendments published since IEEE Std 802.3.1 was revised in 2013.

Ethernet technology, as defined by the IEEE 802.3 Working Group, continues to evolve, with scalable increases in speed, new types of cabling and interfaces, and new features. This evolution may require changes in the managed objects to reflect this new functionality. This document, as with other documents issued by this working group, reflects a certain stage in the evolution of Ethernet technology. In the future, this document might be revised, or new documents might be issued, to reflect the evolution of Ethernet technology.

Proposed Overview

This standard defines Structure of Management Information version 2 (SMIv2) Management Information Base (MIB) module specifications for IEEE Std 802.3 Ethernet that can be accessed by a Network Management System using the Simple Network Management Protocol (SNMP). This standard also defines associated managed object branch and leaf assignments used in the variable descriptors in IEEE Std 802.3 Variable Request operations, administration, and maintenance protocol data units (OAMPDU).

The term "Ethernet-like interfaces" was historically used because the interfaces defined by the IEEE 802.3 Working Group were not considered "Ethernet" per se, but "Ethernet-like", because "Ethernet" was taken to mean "Ethernet version 2" according to the (DEC, Intel, Xerox) DIX "blue book". Today and in the context of SNMP management and SMIv2 MIB modules, "Ethernet", "Ethernet-like", and "IEEE 802.3" are synonymous and interchangeable in the marketplace. The term "Ethernet-like" is retained in this document because of its common usage in the SNMP-based network management community.