P802.3.1

Type of Project: Revision to IEEE Standard 802.3.1-2013
Project Request Type: Initiation / Revision
PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft
Root Project: 802.3.1-2013

1.1 Project Number: P802.3.1
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Ethernet Structure of Management Information version 2 (SMIv2) Data Model Definitions

> **Change to Title:** ~~IEEE~~ Standard for _Ethernet Structure of_ Management Information ~~Base~~ _version 2 (_ ~~MIB~~ _SMIv2_) ~~Definitions~~ _Data_ ~~for~~ _Model_ ~~Ethernet~~ _Definitions_

3.1 Working Group: Ethernet Working Group(C/LM/802.3 WG)
    3.1.1 Contact Information for Working Group Chair:
    Name: David Law
    Email Address: david_law@ieee.org
    3.1.2 Contact Information for Working Group Vice Chair:
    Name: Adam Healey
    Email Address: adam.healey@broadcom.com
3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LM)
    3.2.1 Contact Information for Standards Committee Chair:
    Name: Paul Nikolich
    Email Address: p.nikolich@ieee.org
    3.2.2 Contact Information for Standards Committee Vice Chair:
    Name: James Gilb
    Email Address: gilb@ieee.org
    3.2.3 Contact Information for Standards Representative:
    Name: James Gilb
    Email Address: gilb@ieee.org

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: Jul 2024
4.3 Projected Completion Date for Submittal to RevCom: Jan 2025

5.1 Approximate number of people expected to be actively involved in the development of this project: 20
5.2 Scope of proposed standard: This standard defines Structure of Management Information version 2 (SMIv2) Management Information Base (MIB) module specifications for IEEE Std 802.3 Ethernet and 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 unit (OAMPDU).

Change to scope of proposed standard: This standard ~~contains~~ _defines Structure of_ ~~the~~ _Management Information version 2 (SMIv2)_ Management Information Base (MIB) module specifications for IEEE Std 802.3 ~~,~~ ~~also known as~~ Ethernet ~~. It includes the Structure of Management Information Version 2 (SMIv2) MIB module specifications formerly produced~~ ~~and published by the Internet Engineering Task Force (IETF), and the~~ _associated_ managed object branch and leaf assignments ~~provided~~ _used_ in the ~~Guidelines for the Definition of Managed Objects~~ _variable_ ~~(GDMO)~~ _descriptors_ ~~MIB modules formerly specified within~~ _in_ IEEE Std 802.3 ~~, as~~ ~~well~~ _Variable_ ~~as~~ _Request_ ~~extensions~~ _operations,_ ~~resulting~~ _administration,_ ~~from~~ _and_ ~~recent~~ _maintenance_ ~~amendments~~ _protocol_ ~~to~~ _data_ ~~IEEE Std 802.3. The SMIv2 MIB modules are intended for use with the Simple Network Management Protocol~~ _unit (_ ~~SNMP~~ _OAMPDU_) ~~, commonly used to manage Ethernet~~ .

5.3 Is the completion of this standard contingent upon the completion of another standard? No
5.4 Purpose: The purpose of the standard is to define Structure of Management Information version 2

(SMIv2) MIB module specifications for IEEE Std 802.3 and associated managed object branch and leaf assignments and publish them in a machine-readable format.

Change to Purpose: The purpose of the standard is to ~~publish the~~ define ~~SMIv2 MIB~~ Structure ~~module~~ of ~~specifications~~ Management ~~in~~ Information ~~a~~ version ~~single~~ 2 ~~document~~ (SMIv2) ~~that~~ MIB ~~is~~ module ~~separate~~ specifications ~~from~~ for IEEE Std 802.3 ~~,~~ and ~~that can be published in a~~ associated ~~machine-readable format.~~ managed ~~Future~~ object ~~amendments~~ branch and ~~revisions to IEEE Std 802.3.1 will be performed to update the MIB specifications as required to track~~ leaf ~~future amendments~~ assignments and ~~revisions~~ publish ~~to~~ them ~~IEEE~~ in ~~Std~~ a ~~802.3~~ machine-readable format .

5.5 Need for the Project: This revision is to addresses accumulated maintenance changes as well as appropriate updates to the IEEE Std 802.3.1 Structure of Management Information version 2 (SMIv2) MIB modules to support IEEE Std 802.3 amendments published since IEEE Std 802.3.1 was last revised.

Change to Need for the Project: ~~Ethernet~~ This ~~network~~ revision ~~administrators~~ is ~~need~~ to ~~standard~~ addresses ~~specifications~~ accumulated ~~for~~ maintenance ~~MIB~~ changes ~~modules~~ as ~~so~~ well ~~that~~ as ~~different~~ appropriate ~~devices~~ updates ~~on~~ to ~~their~~ the ~~networks~~ IEEE ~~can~~ Std ~~be~~ 802.3.1 ~~managed~~ Structure ~~in~~ of ~~a~~ Management ~~consistent~~ Information ~~fashion.~~ version ~~Several~~ 2 ~~amendments~~ (SMIv2) MIB modules to ~~support~~ IEEE Std 802.3 ~~have been approved recently, and MIB modules~~ amendments ~~specified~~ published ~~in~~ since IEEE Std 802.3.1 ~~must be updated to reflect~~ was ~~these~~ last ~~amendments~~ revised .

5.6 Stakeholders for the Standard: Ethernet network component suppliers, system suppliers, network management software suppliers, network administrators.

6.1 Intellectual Property

   6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?
   No

   6.1.2 Is the Standards Committee aware of possible registration activity related to this project?
   Yes

   Explanation: RAC review of previously reviewed text is appropriate to assure terminology and descriptions of usage are current.

7.1 Are there other standards or projects with a similar scope? No
7.2 Is it the intent to develop this document jointly with another organization? No

---

8.1 Additional Explanatory Notes: Items #2.1 and #5.2: IEEE Std 802.3.1-2013 was the only IEEE 802.3 Management Information Base (MIB) module standard when it was first developed, hence it was titled 'Standard for Management Information Base (MIB) Definitions for Ethernet'. Since then, IEEE 802.3 has developed IEEE Std 802.3.2-2019 'Standard for Ethernet YANG Data Model Definitions' which defines YANG MIB modules in addition to the SMIv2 MIB modules defined in IEEE Std 802.3.1. This revision is being used as an opportunity to update the IEEE Std 802.3.1 title and scope to reflect it is no longer the only IEEE 802.3 MIB Module standard, and that it contains SMIv2 MIB modules.

Items #5.2, #5.4 and #5.5: IEEE Std 802.3 - IEEE Standard for Ethernet