

IEEE P802.3.1
project scope decisions and
draft PAR text

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15-September-2008

Ethernet MIB modules

2108	Definitions of Managed Objects for IEEE 802.3 Repeater Devices using SMIv2	82
3621	Power Ethernet MIB	20
3635	Definitions of Managed Objects for the Ethernet-like Interface Types	64
3637	Definitions of Managed Objects for the Ethernet WAN Interface Sublayer	37
4836	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)	67
4837	Managed Objects of Ethernet Passive Optical Networks (EPON)	91
4878	Definitions and Managed Objects for Operations, Administration, and Maintenance (OAM) Functions on Ethernet-Like Interfaces	58
5066	Ethernet in the First Mile Copper (EFMCu) Interfaces MIB	90
802.3	Annex 30A & Annex 30B	123
	Total	632

Issues

- Move to 802 OID?
 - Depends on scope of changes
- GDMO & SMIv2 in same document?
 - yes
- Align GDMO and SMIv2 modules?
 - not mandatory
 - but GDMO must maintain alignment with C30

Issues

- Scope of initial project
 - RFCs already published by IETF (see slide 2)
 - 802.3ay Annex 30A & 30B
 - 802.1AB REV Annex F MIB module
 - updates to SMIv2 from 802.3an, ap, aq, as
- Future amendment project(s)
 - updates to GDMO and SMIv2 from 802.3at, av, az, ba

straw poll

- The initial project for 802.3.1 should include the SMIv2 MIB module updates for 802.3 an, ap, aq, and as
- Y 12
- N 0
- A

straw poll

- The initial project for 802.3.1 should include the GDMO and SMIv2 MIB module updates for 802.3at, av, az, ba
- Y 0
- N 10
- A

Title

Standard for Management Information Base
(MIB) definitions for Ethernet

Scope

This standard contains the 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 Guidelines for the Definition of Managed Objects (GDMO) MIB modules formerly specified within IEEE Std 802.3, as well as extensions resulting from recent amendments to IEEE Std 802.3. The SMIv2 MIB modules are intended for use with the Simple Network Management Protocol (SNMP), commonly used to manage Ethernet.

Purpose

The purpose of the standard is to publish the SMIv2 and GDMO MIB module specifications in a single document that is separate from IEEE Std 802.3, and that can be published in a machine-readable format. Future amendments and revisions to IEEE Std 802.3.1 will be performed to update the MIB specifications as required to track future amendments and revisions to IEEE Std 802.3.

Need

Ethernet network administrators need standard specifications for MIB modules so that different devices on their networks can be managed in a consistent fashion. The IETF formerly created and published Ethernet MIB module specifications using the SMIv2 format for use with SNMP, which is the most widely used network management protocol. The IETF has decided to not create or publish any future updates to the SMIv2 MIB module specifications for Ethernet, so the IEEE 802.3 Ethernet Working Group has decided to take on this task. Consolidating the SMIv2 and GDMO MIB module specifications into a single standalone document will make it somewhat easier to update and maintain the MIB modules. Publishing the MIB modules in a machine-readable format will make it easier for network management software designers to use the specifications.

Motion

- Charter HMF to draft the PAR for P802.3.1 based on the agreed Title, Scope, Purpose and Need statements, and request the WG chair to pre-submit to the 802 EC for consideration at the November, 2008 plenary, with concurrence of the IEEE 802.3 WG.
- M: Frazier
- S: Law
- Y: 11 N:0 A:0
- Tech 75%
- Motion Passes