Internet Engineering Task Force (IETF)
Request for Comments: 7448
Category: Informational
ISSN: 2070-1721

T. Taylor, Ed.
PT Taylor Consulting
D. Romascanu
Avaya

February 2015

MIB Transfer from the IETF to the IEEE 802.3 WG

Abstract

This document records the transfer of responsibility for the Ethernet-related MIB modules DOT3-OAM-MIB, SNMP-REPEATER-MIB, POWER-ETHERNET-MIB, DOT3-EPON-MIB, EtherLike-MIB, EFM-CU-MIB, ETHER-WIS, and MAU-MIB from the IETF to the IEEE 802.3 Working Group (WG). This document also describes the procedures associated with the transfer in a similar way to how RFC 4663 records the transfer of the IETF Bridge MIB work to the IEEE 802.1 WG.

Status of This Memo

This document is not an Internet Standards Track specification; it is published for informational purposes.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Not all documents approved by the IESG are a candidate for any level of Internet Standard; see Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7448.

Copyright Notice

Copyright (c) 2015 IETF Trust and the persons identified as the document authors. All rights reserved.

This document is subject to BCP 78 and the IETF Trust's Legal Provisions Relating to IETF Documents (http://trustee.ietf.org/license-info) in effect on the date of publication of this document. Please review these documents carefully, as they describe your rights and restrictions with respect to this document. Code Components extracted from this document must include Simplified BSD License text as described in Section 4.e of the Trust Legal Provisions and are provided without warranty as described in the Simplified BSD License.

Table of Contents

1. Introduction

[RFC4663], published in September 2006, described a plan for transferring responsibility for four MIB modules related to bridges from the IETF to IEEE 802.1. Some years later, responsibility for eight more MIB modules was transferred from the IETF Ethernet Interfaces and Hub MIB (hubmib) WG to the IEEE 802.3 WG. The MIB modules concerned are tabulated below (Section 2). [RFC4663] clearly enunciates the motivation for both transfers and also provides an introduction to IEEE standardization procedures. The discussions of those topics will not be repeated here.

The IEEE version of this second lot of transferred MIB modules was published as 802.3.1-2011 in February 2011. The IEEE 802.3.1 specification was subsequently updated. The latest version, IEEE 802.3.1-2013 [IEEE802.3.1-2013], is the basis for this document.

2. IETF and Corresponding IEEE 802.3 MIB Modules

This section tabulates the MIB modules that were transferred to IEEE 802.3, identifying the IETF source document, the corresponding clause of [IEEE802.3.1-2013], and the location of the MIB itself in ASCII format.

IETF MIB Name: DOT3-OAM-MIB
IETF Reference: Definitions and Managed Objects for Operations, Administration, and Maintenance (OAM) Functions on Ethernet-Like Interfaces [RFC4878]
IEEE 802.3 MIB Name: IEEE8023-DOT3-OAM-MIB
IEEE 802.3.1-2013 Description: Clause 6, Ethernet operations, administration, and maintenance (OAM) MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C6mib.txt

IETF MIB Name: SNMP-REPEATER-MIB
IETF Reference: Definitions of Managed Objects for IEEE 802.3 Repeater Devices using SMIv2 [RFC2108]
IEEE 802.3 MIB Name: IEEE8023-SNMP-REPEATER-MIB
IEEE 802.3.1-2013 Description: Clause 7, Ethernet repeater device MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C7mib.txt

IETF MIB Name: POWER-ETHERNET-MIB
IETF Reference: Power Ethernet MIB [RFC3621]
IEEE 802.3 MIB Name: IEEE8023-POWER-ETHERNET-MIB
IEEE 802.3.1-2013 Description: Clause 8, Ethernet data terminal equipment (DTE) power via medium dependent interface (MDI) MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C8mib.txt

IETF MIB Name: DOT3-EPON-MIB
IETF Reference: Managed Objects of Ethernet Passive Optical Networks (EPON) [RFC4837]
IEEE 802.3 MIB Name: IEEE8023-DOT3-EPON-MIB
IEEE 802.3.1-2013 Description: Clause 9, Ethernet passive optical networks (EPON) MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C9mib.txt

IETF MIB Name: EtherLike-MIB
IETF Reference: Definitions of Managed Objects for the Ethernet-like Interface Types [RFC3635]
IEEE 802.3 MIB Name: IEEE8023-Etherlike-MIB
IEEE 802.3.1-2013 Description: Clause 10, Ethernet-like interface MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C10mib.txt

IETF MIB Name: EFM-CU-MIB
IETF Reference: Ethernet in the First Mile Copper (EFMCu) Interfaces MIB [RFC5066]
IEEE 802.3 MIB Name: IEEE8023-EFM-CU-MIB
IEEE 802.3.1-2013 Description: Clause 11, Ethernet in the First Mile copper (EFMCu) interfaces MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C11mib.txt

IETF MIB Name: ETHER-WIS
IETF Reference: Definitions of Managed Objects for the Ethernet WAN Interface Sublayer [RFC3637]
IEEE 802.3 MIB Name: IEEE8023-ETHER-WIS-MIB
IEEE 802.3.1-2013 Description: Clause 12, Ethernet wide area network (WAN) interface sublayer (WIS) MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C12mib.txt

IETF MIB Name: MAU-MIB
IETF Reference: Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs) [RFC4836]
IEEE 802.3 MIB Name: IEEE8023-MAU-MIB
IEEE 802.3.1-2013 Description: Clause 13, Ethernet medium attachment units (MAUs) MIB module
MIB Location: http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C13mib.txt

3. Procedural Aspects of the Transfer

3.1. IEEE MIB Modules in ASCII Format

The content of Section 2.2 of [RFC4663] is also accurate for this document.

3.2. OID Registration for New MIB Modules

The IEEE 802.3 WG adopted the approach recommended in Section 2.3 of [RFC4663] of developing an IEEE MIB module and defining new compliance clauses under the IEEE OID branch. Information about the IEEE 802.3 Management Registration Arcs can be found at <http://www.ieee802.org/3/arcs/index.html>.

3.3. Mailing List Discussions

The Ethernet Interfaces and Hub MIB WG has completed its documents, and the WG was closed in September 2007. The mailing list stayed open for a while and was closed a few years later. The appropriate mailing list for IEEE 802.3 MIB modules discussion is STDS-802-3-MIB@LISTSERV.IEEE.ORG.

To see general information about 802.3, including how they work and how to participate, go to <http://www.ieee802.org/3/>.

3.4. IETF MIB Doctor Reviews

The content of Section 5 of [RFC4663] is also accurate for this document, noting that from the point of view of the present document, 802.3 should replace 802.1 wherever it occurs in the text.

4. Security Considerations

This document records the transfer of ownership of Ethernet-related MIB modules to IEEE 802.3.1 several years ago. The transfer has no security implications.

5. Informative References

[IEEE802.3.1-2013] IEEE Computer Society, "IEEE Standard for Management Information Base (MIB) Definitions for Ethernet", June 2013.

[RFC2108] de Graaf, K., Romascanu, D., McMaster, D., and K. McCloghrie, "Definitions of Managed Objects for IEEE 802.3 Repeater Devices using SMIv2", RFC 2108, February 1997, <http://www.rfc-editor.org/info/rfc2108>.

[RFC3621] Berger, A. and D. Romascanu, "Power Ethernet MIB", RFC 3621, December 2003, <http://www.rfc-editor.org/info/rfc3621>.

[RFC3635] Flick, J., "Definitions of Managed Objects for the Ethernet-like Interface Types", RFC 3635, September 2003, <http://www.rfc-editor.org/info/rfc3635>.

[RFC3637] Heard, C., "Definitions of Managed Objects for the Ethernet WAN Interface Sublayer", RFC 3637, September 2003, <http:///www.rfc-editor.org/info/rfc3637>.

[RFC4663] Harrington, D., "Transferring MIB Work from IETF Bridge MIB WG to IEEE 802.1 WG", RFC 4663, September 2006, <http://www.rfc-editor.org/info/rfc4663>.

[RFC4836] Beili, E., "Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)", RFC 4836, April 2007, <http:///www.rfc-editor.org/info/rfc4836>.

[RFC4837] Khermosh, L., "Managed Objects of Ethernet Passive Optical Networks (EPON)", RFC 4837, July 2007, <http://www.rfc-editor.org/info/rfc4837>.

[RFC4878] Squire, M., "Definitions and Managed Objects for Operations, Administration, and Maintenance (OAM) Functions on Ethernet-Like Interfaces", RFC 4878, June 2007, <http://www.rfc-editor.org/info/rfc4878>.

[RFC5066] Beili, E., "Ethernet in the First Mile Copper (EFMCu) Interfaces MIB", RFC 5066, November 2007, <http://www.rfc-editor.org/info/rfc5066>.

Acknowledgements

Thanks to Juergen Schoenwaelder and Howard Frazier for their reviews and comments on both the initial and the present versions of this document. During WG Last Call, Warren Kumari caught a nit, and Thomas Petch raised the point of ownership versus responsibility that resulted in some wording changes in the Abstract and Introduction.

Authors' Addresses

Tom Taylor (editor)
PT Taylor Consulting
Ottawa
Canada

EMail: tom.taylor.stds@gmail.com

Dan Romascanu
Avaya
Park Atidim, Bldg. #3
Tel Aviv 61581
Israel

Phone: +972-3-6458414
EMail: dromasca@avaya.com