(IETF) Ethernet Interfaces and Hub MIB Working Group

Update for the IEEE 802.3 meeting

Orlando, March 15-18, 2004

IETF Ethernet Interfaces and Hub MIB WG Charter

- http://www.ietf.cnri.reston.va.us/html.charters/hubmib-charter.html
- Chair: dromasca@avaya.com
- General Discussion: hubmib@ietf.org
- To Subscribe: hubmib-request@ietf.org
  In Body: subscribe your_email_address
- Archive: www.ietf.org/mail-archive/working-groups/hubmib/current/maillist
- Charter:
  - The Ethernet Interfaces and Hub MIB WG is Chartered to define a set of managed objects that instrument devices, MAUs and interfaces that conform to the IEEE 802.3 standard for Ethernet. This set of objects should be largely compliant with, and even draw from IEEE 802.3, although there is no requirement that any specific object be present or absent.
  - Close coordination with hardware standards development in IEEE 802.3 will be followed. The WG chair will support the communication with IEEE 802.3. When objects are added that require hardware support, IEEE 802.3 shall be informed, so that they consider to add them to their draft/standard.

IETF Ethernet Interfaces and Hub MIB WG Charter

- The working group will work on the following MIB modules for the IEEE 802.3ah (Ethernet First Mile) interfaces and devices:

  - Ethernet First Mile (EFM) MIB
    common attributes, OAM operations and statistics

  - Copper EFM MIB

  - Ethernet Passive Optical Networks (EPON) MIB

  The base for the definition of the managed objects in these MIB modules will be the management-related clauses in IEEE 802.3ah specification. The working group will also take into consideration management objects defined by other Working Groups in the IETF (ADSL MIB for example), or other standard bodies (G.983.2), will avoid work duplication, and describe the relationship with these specifications.
- Coming milestones
  - Apr 04 - Working Group Last Call
  - Jun 04 - Submit the Internet-Drafts to the IESG for consideration as Proposed Standards

EFM MIBs

- Generic EFM MIB - http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-hubmib-efm-mib-00.txt
- EPON MIB - http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-hubmib-efm-epon-mib-00.txt
- EFM Copper MIB - http://www.ietf.cnri.reston.va.us/internet-drafts/draft-ietf-hubmib-efm-cu-mib-00.txt

Generic EFM MIB

- dot3OamTable group manages the primary OAM objects of the Ethernet interface
- dot3OamPeer table maintains the current information on the status and configuration of the peer OAM entity on the Ethernet interface
- dot3OamEvent table defines the management objects for the event notification capability available in IEEE P802.3ah OAM

EPON MIBs

- EFM EPON MIB
  - `dot3MpcpTable` - MPCP configuration
  - `dot3MpcpStatTable` – MPCP statistics
  - MAU tables – to be moved to the MAU MIB
- EPON Device MIB

EFM Cu MIB

- efmCuPort
- efmCuPmi
- Relationship with MIB work being done in other WGs
  - ADSL MIB
  - G.983.2

Relationship between the IEEE and IETF activity

- For the Clause 30 management model, SNMP is one protocol that allows access to the management entity from a management application
- The IETF Ethernet Interfaces and Hub MIB WG defines the standard Ethernet MIBs for Ethernet interfaces and devices. The goal is to provide the SNMP MIB support simultaneously or close to the release of the IEEE standards
  - Based on 802.3 objects, but may extend beyond the 802.3 set
- Cooperation based on access to the working documents, and common participation of individuals in the work of the two standard bodies
- This model of cooperation does not seem to work well lately
  - Little common participation
  - Little interest in the IETF for the Ethernet MIBs work
- Seek together an alternate way of cooperation between the IEEE and the IETF in the future
  - If SNMP MIBs are important, the IEEE needs to define them as items in the future IEEE 802.3 PARs
  - The IETF can provide IETF advisory and review for SNMP-related issues through the Operations and Management Area ‘MIB Doctors’ team
  - Documents may be published as Informational RFCs – if there is interest