IEEE 802.1ap – MIB

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Draft 0.2 for P802.1ap

> http://www.ieee802.org/1/pages/802.1ap.html

> Proposal by David Levi

> Draft now contains

  • Front matter boilerplate
    • Clause 1 – 5, Annex A placeholders
  • Clause 17
    • Full reorganization showing .1ag and .1ah inclusion
    • Adaptation of IETF MIB text
      (structure, relationship & security considerations)
    • New MIB structure tables
  • MIB proposal
    • Re-root to IEEE OID
    • PBB-MIB in .1ah
    • New modules – TC, PB, MSTP
    • Reindexed modules – BRIDGE, P-BRIDGE, Q-BRIDGE, RSTP
Full MIB proposal & clause structure

Table 17.1—Structure of the MIB Modules

<table>
<thead>
<tr>
<th>Module</th>
<th>subclause</th>
<th>802.1 project</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC MIB</td>
<td>17.5.1</td>
<td></td>
<td>textual conventions for all modules</td>
</tr>
<tr>
<td>BRIDGE MIB</td>
<td>17.5.2</td>
<td>802.1D</td>
<td>Adapted from RFC 4188</td>
</tr>
<tr>
<td>RSTP-MIB</td>
<td>17.5.3</td>
<td>802.1w</td>
<td>Adapted from RFC 4318</td>
</tr>
<tr>
<td>P-BRIDGE MIB</td>
<td>17.5.4</td>
<td>802.1p &amp; 802.1t</td>
<td>Adapted from RFC 4363</td>
</tr>
<tr>
<td>Q-BRIDGE MIB</td>
<td>17.5.5</td>
<td>802.1Q &amp; 802.1u &amp; 802.1v</td>
<td>Adapted from RFC 4363</td>
</tr>
<tr>
<td>PB-BRIDGE MIB</td>
<td>17.5.6</td>
<td>802.1ad</td>
<td>Initial version in 802.1ap</td>
</tr>
<tr>
<td>MSTP MIB</td>
<td>17.5.7</td>
<td>802.1Q</td>
<td>Initial version in 802.1ap</td>
</tr>
<tr>
<td>CFM MIB</td>
<td>17.5.8</td>
<td>802.1ag</td>
<td></td>
</tr>
<tr>
<td>PBB-BRIDGE MIB</td>
<td>17.5.9</td>
<td>802.1ah</td>
<td></td>
</tr>
</tbody>
</table>
802.1ap MIB Issues Discussed

> We will use this IEEE OID root, per the RAC & 802b it is:
  • iso (1) iso-identified-organization (3) iee (111) standards-association-numbered-series-standards (2) lan-man-stds (802) iee802dot1 (1) iee802dot1mibs (1) XXX (xxx)

> Just replace GMRP/GARP/GVRP with MMRP/MPR/MVRP.

> Maintain the Textual Conventions (TC) in a separate module to simplify cross-module importing.

> The TC module is IEEE OID rooted, thus consolidating all IEEE 802.1 objects in these modules. This duplication of IETF TCs only makes sense if we feel that there is a chance that we will want to modify these TCs in the future.

> We should delete the legacy features contained in the IETF MIBs. The editor should make a proposal, but the following from Q-BRIDGE are agreed:
  • iee8021BridgeBaseType = transparent, sourceroute (removed)
  • iee8021BridgeTpFdbTable - Transparent bridging FDB (left in)

> Request review revised conformance sections (especially in the BRIDGE MIB)

> Request suggestion of Clause 5 conformance text to allow choosing either RFC 4363 MIB or .1ap MIB for enterprise or other legacy systems.
Agree to Initiate TG ballot

> Email Motion:

> Given the complete MIB proposal presented in Draft 0.2, move to initiate a Task Group ballot on P802.1.ap Draft 1.0 that will close before the March plenary meeting.

> Moved by: Glenn Parsons

> Seconded by: Bert Wijnen