Precision Time Protocol Version 2 (PTPv2) Management Information Base

draft-ietf-tictoc-ptp-mib-01.txt
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Overview of Draft

• Presents a MIB for a PTP Clock
  – Concentrates on standard PTP data elements
  – Associated information such as performance data metrics are to be covered in a separate MIB

• PTP protocol-specific standard data sets:
  – Default, Current, Parent, Time Properties, Port, TC Default and TC Port Data Sets

• Covers all types of PTP clocks
  – ordinary, boundary and transparent clocks

• Aims to create a standard method for managing PTP clocks
History

• 00 (Jul 11) First full, syntactically correct and compile-able MIB
• 01 (Jan 12) Revised following comments from Bert Wijnen (6 Oct 2011) + editorial changes
Overall changes

• Revised introduction to clarify the scope, and the relationship to other MIBs and profiles
• Changed name to "ptpbase"
• Correction of some data types
• Correction in reference section
• Correction of typos
Editorial changes

- Changes in the introduction includes that the MIB is read-only.
- Change to “ptpbase” should allow complementary MIBs.
- Removal of unused acronyms from the MIB description.
- All the references changed to [IEEE 1588-2008]
  - some were using [1]
- Check of all remaining references.
- Check and restructuration of line lengths to meet ID requirements.
- Run through the IETF IDnits tool to check other compliance issues.
Structure extensions

• Some structures in the MIB have been extended.
  – The MIB is able to cover the structures defined in the IEEE standards and is extensible as well.

• Examples:
  – ClockIdentity:
    IEEE 1588-2008: Octet[8] ➔ octet string (1..255)
  – Priority and domain number values:
    IEEE 1588-2008: UInteger8 ➔ Unsigned32
Current Status

• Last call issued in October
  – No comments received on list
• Requires a thorough “MIB Doctor” review
Next steps

• Add an Annex with list of extended structures.
• New related MIBs
  – MIB for ITU profile (extension)
    • G.8265.1
    • On-going G.8275.1 (ITU-T telecom profile for time) will use Ethernet mapping (IP mapping controversial)
      Note: Other profiles (IEEE) use Ethernet mapping and have own MIBs
    • “ptpbase” MIB does not support Ethernet mapping
      ➔ Add Ethernet mapping? Allowed by IETF?
  – MIB for performance metrics (extension)
    • Controversial item: what over the 13 metrics? All?
    • Reference: ITU-T G.8260 Appendix I