Precision Time Protocol Version 2 (PTPv2) Management Information Base

Vinay Shankakumar, Laurent Montini – Cisco Systems
Tim Frost, Greg Dowd – Symmetricom

Purpose of Draft

- Presents a MIB for a PTP Clock
  - Extends *draft-frost-tictoc-ptp-slave-mib-00* to include all ordinary clocks, boundary clocks and transparent clocks
  - Concentrates on PTP data elements; associated information such as performance metrics have been removed
- Aims to create a standard method for managing PTP clocks
  - allows for integrated management of PTP synchronization infrastructure as described in *draft-frost-tictoc-ptp-management-00*

Contents of 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*
- Allows for multiple ports and multiple instances
  - e.g. for routers with multiple ports, slaves with multiple protocol instances

Issues to be resolved

- How should we handle different profiles, such as the G.8265.1 Telecom Profile?

- How should we handle associated data, e.g. performance and status information?

- Do we want to configure PTP clocks via MIBs, or simply collect management information?
  - How do we handle security for configuration?

- Is there interest in the working group to adopt this as a working group item?