PTP Enterprise Profile

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Purpose

- PTP Profile for Enterprise IT Networks
  - Driven by Financial Industry for HFT
  - Register time of financial transactions
  - Timestamp trading data for playback in trading system development
  - Measure network and algorithm latencies
- Existing PTP Profiles and those under development are tailored toward specialized applications distinct from enterprise networks
Current Status

- draft-ietf-tictoc-ptp-enterprise-profile-01
  - Submitted yesterday
  - Posted to TICTOC reflector Oct 24
- Changes since version 00
  - GMs remain passive until UTC offset available
  - GMs indicate maximum time correction between adjacent SYNC messages
  - ANNOUNCE TLV revised to format proposed in IEEE 1588 Working Group
  - Domain number requirements removed
Comments so far

• Several suggestions for language corrections/clarifications
• Rule stating that slaves should ignore rogue masters needs to be clarified
• Issue: Alternate Timescales
  • Should the profile allow distribution of local time offset corrections?
    • Confusing when networks cross time zones
    • But sometimes useful
• Thanks to John Fletcher and Kevin Gross for intelligent discussion
Comment so far

Issue: Should the three operation modes be replaced by only the hybrid mode

• Hybrid mode is multicast ANNOUNCE, SYNC, DELAY RESPONSE in kind
  • Either multicast or unicast depending on DELAY REQUEST
• Simplifies profile
• System integrators have so far not expressed an interest in pure unicast mode
Next steps

• Please review document or comment on issues raised
• Post questions and comments to reflector: TICTOC@ietf.org