

# 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:  
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