

PTP Enterprise Profile

Doug Arnold &
Heiko Gerstung
Meinberg Radio Clocks

TICTOC Working Group
IETF 92 Dallas, March 2015

Purpose

- PTP Profile for Enterprise IT Networks
 - Driven by Financial Industry for HFT
 - Register time of events
 - Timestamp event data for playback in algorithm 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-05
- Changes since version 04
 - Optional mechanism for multimaster operation removed

Recommendation

- Editorial comments only
- Push toward getting RFC number

Backup slides

Multiple Domains

- Preferred Master clocks SHOULD move to another domain if they are not the best master
- BCs and syntonizing TCs SHOULD support multiple domains
 - Maintain separate servo loops and spanning trees for each
- Slave clocks SHOULD operate multiple independent OCs
 - Each in a different domain
 - Time ensembling, voting, etc. outside of PTP

Multi-Domain Slave Clock

