

# ITU-T Q13/15 UPDATES

TICTOC / IETF-84

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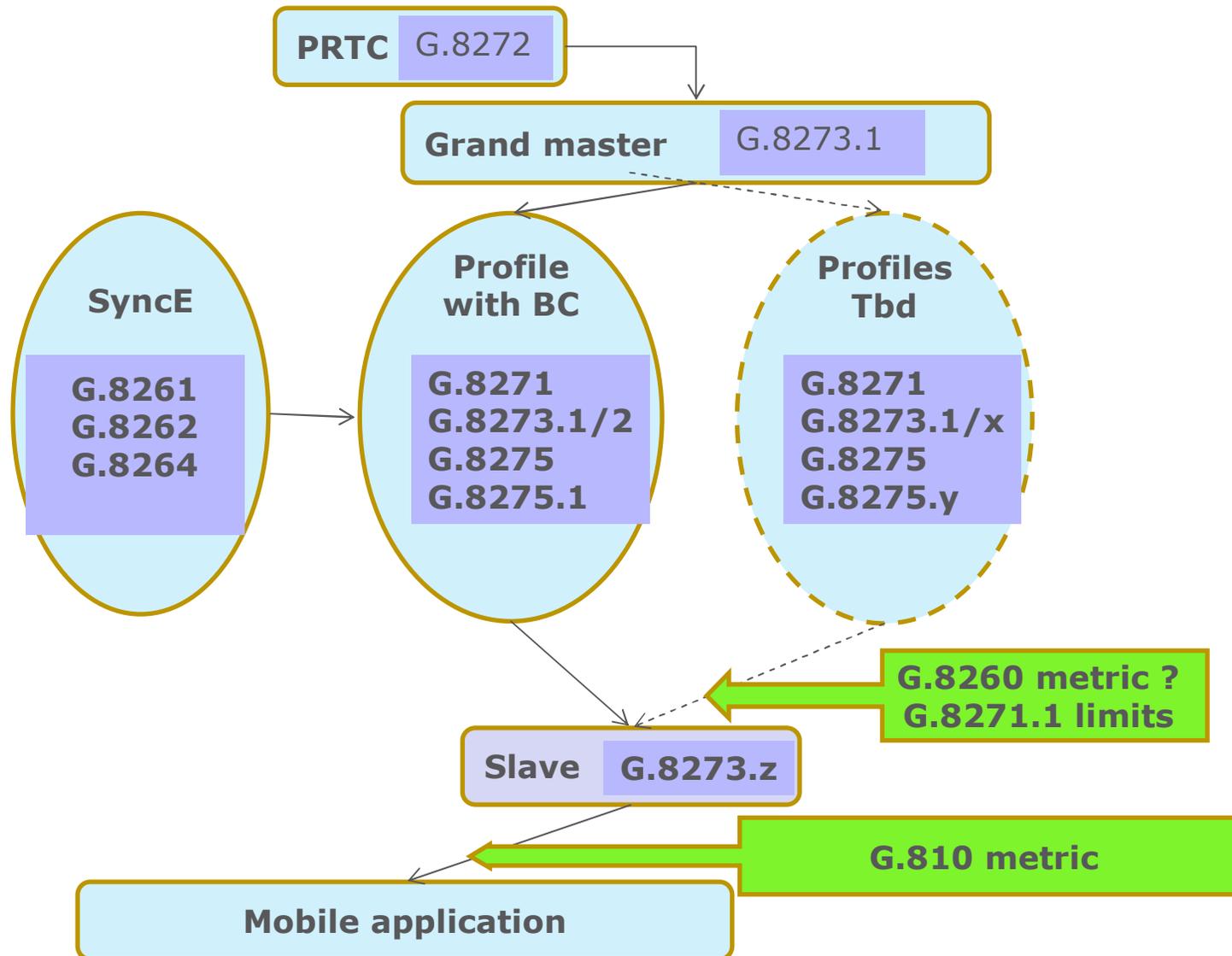
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# INTRODUCTION

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- › Q13/15 held an Interim meeting in June 2012 hosted by NSN
- › Mainly dealing with Time sync (G.827x series)
- › Next meeting:
  - September 2012, SG15 meeting

# TRANSPORT OF TIME IN PACKET NETWORKS



# TIME SYNC UPDATES: NETWORK LIMITS

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- › Updates in G.8271
  - Time sync interface (1PPS) adjustments
  - Discussion on the physical characteristics (to be moved into another question?)
- › Network Limits (G.8271.1)
  - Probably delayed until 2013
  - Ongoing analysis of Time sync over 20 BC chain with SyncE support :
    - › Discussions on Time sync Holdover
    - › Simulations concerning Noise due to SyncE rearrangements

# TIME SYNC ARCHITECTURE AND PROFILE

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- › Time Sync Architecture and PTP Profile (G.8275)
  - Recommendation planned to be consented in 2013
  - Initial discussion on PRTC location and Redundancy
  - Ongoing discussion on the Best Master Clock Algorithm (G.781-like vs. Default BMCA). Initial agreements follow:
    - › Some port must never become slave.
    - › It should be possible to select the priority based on physical port.
    - › there should be the option to have a full automatic set up of the network.
- › Time sync Profile (G.8275.1)
  - Recommendation planned to be consented in 2013
  - Packet rate provisionally agreed: 16 pps
  - Path delay mechanism and mapping already agreed at previous meeting (Delay Request/Response and Ethernet mapping respectively)
  - Possible integration of transparent Clock in the future (for special cases, e.g. 2-ports device)
- › New Time sync profile (8275.2?)
  - Agreed to start a work item on “partial timing support” (i.e. IEEE1588 is not supported in all nodes)
  - Based on IP mapping

# TIME SYNC CLOCKS

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- › PRTC (G.8272)
  - Good progress on this recommendation. MTIE mask agreed.
  - The Recommendation will be submitted for consent at the September 2012 meeting
- › Telecom GM (T-GM): G.8273.1
  - No significant progress at last meeting.
  - Release date will be delayed until 2013
- › Telecom BC (T-BC): G.8273.2
  - New draft released
  - Planned to be consented in 2013
- › Work may start on Transparent Clock (G.8273.3?)
  - It will be decided at next meeting

# OTHERS

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- › G.8262 Amendment to clarify Option 2 noise transfer requirements (*The maximum bandwidth requirement for an EEC is 0.1 Hz*)

# CURRENT DOCUMENT STRUCTURE

Completed Ongoing Future ?

