Editor's Report
60802 Draft 0.5

January, 2019
IEEE802 Interim, Hiroshima

Jordon Woods, Analog Devices

Outline

CONTENTS

Changes since last editor's report

- Since the report provided during 11/2018 IEEE Plenary Meeting in Bangkok:
  - http://www.ieee802.org/1/files/public/docs2018/60802-woods-D04upadate-1018-v00.pdf
- Section 6 - Required Functions for an Industrial network.
  - Completed standards-based view of required functions
  - Moved the "quantities" proposal back to section 6 based upon feedback in Bangkok.
  - Removed Device classes
- Annex A - PCS proforma
  - Initial cut of PCS proforma complete

Section 6

- Removed Table 4 - Device Classes
  - Found that mandatory features and optional features were identical between the bridge and the constrained bridge.
  - The editor believes that the correct place for this distinction would be in the PCS Proforma and considers this part of the on-going discussion regarding the “quantities” proposal.
- Moved the “quantities” text from Annex A back to section 6 based upon feedback in Bangkok
  - Current Proposal for quantities:
    - Define the relevant normative parameters;
    - Giving quantities is mandatory for conformance;
    - Define the required quantities for a limited set of different classes (optional);
    - Allow “wildcard” numbers for the defined parameters.
    - Align terminology (talker/producer, network diameter)

Annex A – PCS Proforma

- Included an initial contribution for the PCS Proforma:

Other Gaps (from Annex Z)

1. Regular synchronization of .1Qbv “tick” event to the 802.1AS-Rev clock
2. Distributed and Centralized model “UNI” may need to be expanded.
3. Need mechanism for identifying “In-sync” and “out of Sync” for all time-aware systems in the network.
4. Network diagnostic – base on Gunter’s contribution.
5. Synchronization – base on Gunter’s contribution.
6. Defined range of destination MAC address, do we get our own OUI
7. Do we need a standardized TLV for LLDP to identify the TSN domain
8. Do we need a section to distinguish between constrained devices vs other devices?
9. Management Reconciliation
   - http://www.ieee802.org/1/files/public/docs2018/60802-Steindl-Configuration-0718-v02.pdf
10. Need to identify network management access protocols and select data models for management.
11. Bridge FDB and resource requirements
12. Define procedures to implement hot-stand-by masters.
13. Do we need an IEC/IEEE translation dictionary?
14. Reference style IEC guides in the profile.
15. Editor’s note: Do we need a different class of device for constrained devices (two-port mac relays for instance) or a separate profile? (Table 12-24 in 802.1Q-2018 has an example of how this might be done)?
16. Do we need to specify link aggregation in support of event-based control?
    - http://www.ieee802.org/1/files/public/docs2018/60802-stanica-event-based-control-1118-v02.pdf
    - http://www.ieee802.org/1/files/public/docs2018/60802-stanica-link-aggregation-1118-v02.pdf>
17. How do we deal with destination MAC address constraints
    - http://www.ieee802.org/1/files/public/docs2018/60802-Steindl-DaMacConstraints-0718-v02.pdf

Next Steps

- The editor wishes to move the current draft (D0.5) to task group ballot
  - Suggestions and comments are getting increasingly difficult to track
  - Need a better means to document consensus
  - Therefore, a more formal comment resolution is required.
- A reminder: task group ballot will follow IEEE process
  - This means all comments must be submitted per the ballot instructions
  - All comments must be submitted on the appropriate comment form:

    http://www.ieee802.org/1/files/private/commenting-tool/MyBallot-tools/

Ballot Form (example)

	A	B	C	D	E	F	G
1	**Task Force Review and Working Group Ballot comment input form**						
2	**First name**				**Surname**	**Affiliation**	**Phone**
3	Jordon				Woods	Analog Devices Inc.	[redacted]
4	Click on column headers for help						
5	**Category**	**Page**	**Sub-clause**	**Line #**	**Comment**	**Proposed Change**	**Must Be Satisfied**
6	Editorial	13	6.1.1	238	TBD should be an editor's note	Resolve the question or change to an editor's note	Yes
7	Technical	13	6.1.2	244	In table 8, the contraint "Applies only if 6.1.1fulfilled" is non-specific.	As 6.1.1 is mandatory in the sense that one PHY must be selected, the constrain should be changed to "applies only if this PHY is selected"	Yes
8	Technical	14	6.1.2	246	In table 9, the contraint "Applies only if 6.1.1fulfilled" is non-specific.	As 6.1.1 is mandatory in the sense that one PHY must be selected, the constrain should be changed to "applies only if this PHY is selected"	Yes
9	Technical	19	6.2.4.4	328	The maximum number of hops in a network is not a bridge or end station requirement.	Either remove the text or change the language to indicate that the text/table is informative	Yes
10	Technical	22	6.4	371	Table 22 indicates bridge delay is measure MII to MII. Figure 2 seems to indicate bridge delay is measure from time on the wire.	Update figure or table to be consistent.	Yes
11							

Thank you