

P802.1DP

Time-Sensitive Networking for Aerospace Onboard Ethernet Communications

Resolution of Comments on
Project Authorization Request (PAR) and Criteria for Standards Development (CSD)

2020-11-06

802.11 comments on the PAR and their resolution

- **Comment:**
The example of 802.1CM may be used for title and scope issues noted.

2.1 Typically titles begin with "Standard for...", "Guide for..." or "Recommended Practice for...". If a general term is used to represent ranges (e.g. high, medium, low) within the title, scope, or purpose, numerically define such ranges where they first appear (title, scope, or purpose, as applicable). From the PAR submission instructions.
We were confused, as it is a profile, is that a standard/guide/recommended practice?
- **Response:**
It is a profile specification, which is a standard.
Change the title to: "Standard for Local and Metropolitan Area Networks – Time-Sensitive Networking for Aerospace Onboard Ethernet Communications". This follows the 802.1CM example and also addresses the comment on the title in the CSD.
- **Comment:**
2.1 and 5.2 the use of "profile" vs "profiles" the plurality should be the same.
- **Response:**
The above suggested change in the title resolves this issue.
- **Comment:**
5.2 "The profiles select" seems to imply a Guide or Recommended practice... harmonizing the title and 5.2 should be done.
- **Response:**
This is not a Guide or Recommended Practice but a Standard that specifies a normative selection of features, options, configurations, defaults, protocols, and procedures from IEEE 802.1 and IEEE 802.3 standards. The word "select" has been used in particular to make it clear that this standard does not introduce new features.

802.11 comments on the PAR and their resolution

- **Comment:**
5.4 “This standard provides profiles” if we need to change 2.1 and 5.2, make similar changes to 5.4.
- **Response:**
Replace “The standard provides profiles” with “The standard specifies profiles”.
- **Comment:**
5.4 “support the entire range of aerospace onboard application” ...”Entire” really. Suggest changing to “broad” .
- **Response:**
Replace “the entire” with “a broad”.
- **Comment:**
5.5 – “use of IEEE 802 standards” – this may be overly broad as it does not include 802.11 in the descriptions. Suggest change to “use of IEEE 802.1 and IEEE 802.3 standards”, or you could include the use of 802.11 in the scope.
- **Response:**
Replace “use of IEEE 802 standards” with “use of IEEE 802.1 and IEEE 802.3 standards”.
- **Comment:**
8.1 The note for 5.2 seems to imply that this would be a guide or recommend practice.
- **Response:**
Delete the note on 5.2.

802.11 comments on the PAR and their resolution

- **Comment:**
8.1 the note for 5.2 and 5.4 notes 802.3, but if you expand the scope for 802.11 it should be noted.
- **Response:**
Maintain the scope of this project on 802.1 and 802.3 standards as clarified via the updates above. This does not preclude future joint work between 802.11 and 802.1 in another project.
- **Comment:**
8.1 IEEE 802.3 Ethernet networks, IEEE 802.1 Time-Sensitive Networking (TSN) and IEEE 802.1 All cited Standards should be fully expanded and noted here in 8.1.
- **Response:**
Add to 8.1:
5:2:
IEEE 802.1 Time-Sensitive Networking standards as listed at: <https://1.ieee802.org/tsn/>;
IEEE 802.1 Security standards as listed at: <https://1.ieee802.org/security/>;
IEEE Std 802.3-2018 - IEEE Standard for Ethernet and its amendments as listed at: <https://www.ieee802.org/3/index.html>.

802.11 comments on the CSD and their resolution

- **Comment:**
Note that the title in CSD is not quite the same as the PAR...” Standard for Local and Metropolitan Area Networks” is not included in the PAR.
- **Response:**
Add “Standard for Local and Metropolitan Area Networks – “ to the beginning of 2.1 Project Title in the PAR.
- **Comment:**
1.2.4 - “IEEE 802 standards” why is 802.11 excluded? If it is technically feasible, it should be included. If not included, then why is it excluded?
- **Response:**
Along the update being done to 5.5 in the PAR, replace “IEEE 802 standards” with “IEEE 802.1 and IEEE 802.3 standards” because the scope of this project is wireline. Support for TSN in IEEE 802.11 is ongoing work; therefore, we cannot yet base a profile specification on this ongoing work. This does not preclude future joint work between 802.11 and 802.1 in another project.
- **Comment:**
Note in general, where it states “IEEE 802 standards” if we do not exclude 802.11, then the statement would be valid and true.
- **Response:**
Replace each occurrence of “IEEE 802 standards” with “IEEE 802.1 and IEEE 802.3 standards” in the PAR and the CSD to make the scope of the project clearer.

802.3 comments on the PAR and their resolution

- **Comment:**
5.2, Title — The Title and Scope disagree on “profile” or “profiles”. Suggest the plural in the title would be more correct.
- **Response:**
Remove “profile” from the title to address this and further comments from the 802.11 WG.
- **Comment:**
5.4, Purpose — The assertion that the standard will “support the entire range” is an ambitious and probably unachievable goal. Suggest: “support a broad range”.
- **Response:**
Make the change as suggested.
- **Comment:**
5.6, Stakeholders — The ending phrase is awkward. Suggest: replace “of aerospace” with “for aerospace” at end of sentence.
- **Response:**
Make the change as suggested.

802.3 comments on the CSD and their resolution

- **Comment:**

1.2.5.I, Known costs — From the PAR, it might be appropriate to indicate that availability of standard profiles likely will reduce development costs for products.

- **Response:**

Add: “Furthermore, standard profiles likely will reduce development costs for products.”