

Proposed P802c PAR Modification

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Re: P802c PAR

Venue:

DCB Task Group, IEEE 802.1 Interim, York, England, Sept 2016

Purpose:

to propose modification of the P802c PAR, with text changes and a proposed development schedule

Notice:

This document represents the views of the author and is offered as a basis for discussion.

Proposed P802c PAR Modification

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Abstract

This contribution proposes modification of the P802c PAR, with text changes and a proposed development schedule.

Background

The 802c PAR (“Local Medium Access Control (MAC) Address Usage”) was approved 2016-06-11

- <https://development.standards.ieee.org/get-file/P802c.pdf?t=86069700003>

IEEE 802 CSD:

- <http://ieee802.org/1/files/public/docs2015/lasg-mjt-802c-CSD-0315-v02.pdf>

Current PAR:

5.2.b. Scope of the project

The amendment will provide an optional local MAC address space structure to allow multiple administrations to coexist. This structure will designate a range of local MAC addresses for protocols using a Company Identifier (CID) assigned by the IEEE Registration Authority. Another range of local MAC addresses will be designated for assignment by local administrators. The amendment will recommend a range of local MAC addresses for use by IEEE 802 protocols.

Need for Modification (a)

Some technical errors, ambiguities, omissions, and inconsistencies have been identified in the base standard (IEEE Std 802-2014) during the course of development.

Some believe that that correction is outside the current scope.

Need for Modification (c)

According to the IEEE RA (see [B8] in the draft), “In addition to being a globally unique 24-bit identifier, either an OUI or CID may also be used to create extended identifiers, protocol identifiers and context dependent identifiers. Depending on the rules used to create these derivative identifiers, they might be globally unique (e.g., EUI-48 and EUI-64) or only unique within the context in which they are used.”

IEEE Std 802 contains content relevant to CID usage as protocol identifiers; for example, 9.5 discusses “SNAP identifiers with the X bit set to one.” Changes to 9.24, 9.3, 9.5, and 9.51 could be used to clarify ambiguity and bring IEEE Std 802 into alignment with this use of CID in a protocol identifier.

Some believe that that correction is outside the current scope.

Proposed Modification (1): 5.2.b. Scope of the project

The amendment will provide an optional local MAC address space structure to allow multiple administrations to coexist. This structure will designate a range of local MAC addresses for protocols using a Company Identifier (CID) assigned by the IEEE Registration Authority. Another range of local MAC addresses will be designated for assignment by local administrators. The amendment will recommend a range of local MAC addresses for use by IEEE 802 protocols. [This amendment will also correct minor errors, ambiguities, omissions, and inconsistencies, including clarifying the use of CID in protocol identifiers.](#)

Proposed Modification (2): Dates

4.2 Expected Date of Submission of Draft to the IEEE-SA for Initial Sponsor Ballot: ~~July 2016~~ [Feb 2017](#)

4.3 Projected Completion Date for Submittal to RevCom: ~~Feb 2017~~ [Aug 2017](#)

Note:

- these dates are consistent with the [802c Development Schedule](#)
- RevCom submittal may be soon, per schedule, but NesCom prefers a conservative prediction; it says:
 - NOTE: USUAL MINIMUM TIME BETWEEN INITIAL SPONSOR BALLOT AND SUBMISSION TO REVCOM IS 6 MONTHS

Consequential Modification in 8.1

Per procedure, “For a modified PAR, a brief explanation of why the PAR is being modified shall be included in 8.1” (additional explanatory notes)

Proposed response in 8.1:

5.2 During the development of the project, some minor errors and omissions were found in IEEE Std 802-2014, including ambiguity regarding the use of CID in protocol identifiers in accordance with IEEE Registration Authority policy.

4.2 and 4.3: Dates adjusted per current schedule.

No other changes are necessary

Remainder of PAR is accurate.

No CSD update is necessary to support this addition of maintenance aspects to the project.

Proposal

Submit a PAR modification to IEEE 802 EC, for agenda of 2016-11-11, based on proposed modifications to 5.2.b, 4.2, 4.3, and 8.1.

Presubmit the same PAR modification to NesCom by 2016-10-17, for agenda of 2016-12-06.