IEEE 802 LAN/MAN STANDARDS COMMITTEE (LMSC)

CRITERIA FOR STANDARDS DEVELOPMENT (CSD)

Based on IEEE 802 LMSC Operations Manuals approved 4 August 2020
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P802.1ASdr IEEE Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications Amendment: Alternative Terminology

1. IEEE 802 criteria for standards development (CSD)

The CSD documents an agreement between the WG and the Sponsor that provides a description of the project and the Sponsor's requirements more detailed than required in the PAR. The CSD consists of the project process requirements, 1.1, and the 5C requirements, 1.2.

1.1 Project process requirements

1.1.1 Managed objects

Describe the plan for developing a definition of managed objects. The plan shall specify one of the following:

a) The definitions will be part of this project.
b) The definitions will be part of a different project and provide the plan for that project or anticipated future project.
c) The definitions will not be developed and explain why such definitions are not needed.

Item c) is applicable. No new managed object definitions will be developed since this amendment will only replace non-inclusive terminology with inclusive language. The names of existing managed objects that use non-inclusive terminology will be changed to use inclusive language.

1.1.2 Coexistence

A WG proposing a wireless project shall prepare a Coexistence Assessment (CA) document unless it is not applicable.

d) Will the WG create a CA document as part of the WG balloting process as described in Clause 13? (yes/no)
e) If not, explain why the CA document is not applicable.

N/A- this is not a wireless project.

1.2 5C requirements

1.2.1 Broad market potential

Each proposed IEEE 802 LMSC standard shall have broad market potential. At a minimum, address the following areas:

f) Broad sets of applicability.
g) Multiple vendors and numerous users.

f) This project applies to existing and future applications for time sensitive networks including audio/visual applications, industrial automation applications, in-vehicle applications, and aerospace applications.

g) Multiple vendors and users are participating in the development and deployment of time sensitive networks. This project avoids non-inclusive, insensitive, and other non-inclusive terminology to further enable market adoption, conformity assessment, interoperability, and other technical aspirations of the existing standard. Multiple companies and standards organizations are already reworking their implementations and associated documentation to have inclusive language.

1.2.2 Compatibility

Each proposed IEEE 802 LMSC standard should be in conformance with IEEE Std 802, IEEE 802.1AC, and IEEE 802.1Q. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1 WG prior to submitting a PAR to the Sponsor.

h) Will the proposed standard comply with IEEE Std 802, IEEE Std 802.1AC and IEEE Std 802.1Q?
i) If the answer to a) is no, supply the response from the IEEE 802.1 WG.

h) Yes, the proposed standard will comply with IEEE Std 802, IEEE Std 802.1AC and IEEE Std 802.1Q.

i) Not applicable.

The review and response is not required if the proposed standard is an amendment or revision to an existing standard for which it has been previously determined that compliance with the above IEEE 802 standards is not possible. In this case, the CSD statement shall state that this is the case.

1.2.3 Distinct Identity

Each proposed IEEE 802 LMSC standard shall provide evidence of a distinct identity. Identify standards and standards projects with similar scopes and for each one describe why the proposed project is substantially different.

There is no existing project replacing non-inclusive terminology with inclusive language in IEEE Std 802.1AS-2020.

1.2.4 Technical Feasibility

Each proposed IEEE 802 LMSC standard shall provide evidence that the project is technically feasible within the time frame of the project. At a minimum, address the following items to demonstrate technical feasibility:

j) Demonstrated system feasibility.
k) Proven similar technology via testing, modeling, simulation, etc.

j) The project does not add new technical functionality and applies to existing deployments using IEEE Std 802.1AS.

k) The proposed standard does not change the technology used in existing deployments of IEEE Std 802.1AS.

1.2.5 Economic Feasibility

Each proposed IEEE 802 LMSC standard shall provide evidence of economic feasibility. Demonstrate, as far as can reasonably be estimated, the economic feasibility of the proposed project for its intended applications. Among the areas that may be addressed in the cost for performance analysis are the following:

l) Known cost factors.
m) Balanced costs.
n) Consideration of installation costs.
o) Consideration of operational costs (e.g., energy consumption).
p) Other areas, as appropriate.

l) The cost factors are known for IEEE Std 802.1AS and apply to the proposed standard. The proposed standard does not increase known cost factors.

m) The well-established cost balance between infrastructure and attached stations will not be changed by the proposed standard.

n) There are no incremental installation costs relative to IEEE Std 802.1AS that apply to the proposed standard.

o) There are no incremental operational costs relative to IEEE Std 802.1AS that apply to the proposed standard.

p) No other areas identified at this time.