

IEEE 802 LAN/MAN STANDARDS COMMITTEE (LMSC)

CRITERIA FOR STANDARDS DEVELOPMENT (CSD)

Based on IEEE 802 LMSC Operations Manuals approved 15 November 2013

Last edited 20 January 2014

[Preparer's Note: A recent CSD draft (for P802.1cr) has 'Last edited 16 March 2016' but the template used for this CSD is that referred to in the www.ieee802.org/devdocs directory and I have been unable to locate a later revision of the template or determine any differences between this and the purported later template.]

This CSD is for P802.1AE-Rev

Revision of IEEE Standard for Local and metropolitan area networks –Media Access Control (MAC) Security

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.

Definition of managed objects in the form of an SNMP MIB is already part of IEEE Std 802.1AE, and have recently been updated by the 802.1AEcg amendment. Changes to the definition of managed objects that are needed as a result of any further revision changes will be part of this project.

1.1.2 Coexistence

A WG proposing a wireless project shall demonstrate coexistence through the preparation of a Coexistence Assurance (CA) document unless it is not applicable.

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

This project 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:

- a) Broad sets of applicability.
- b) Multiple vendors and numerous users.

IEEE Std 802.1AE is an established standard with numerous users supported by multiple vendors. This revision will incorporate IEEE Std 802.1AE-2006 and its amendments 802.1AEbn-2011, 802.1AEbw-2013 , and 802.1AEcg into a single document for the convenience of all users of the standard.

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.

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

This revision of IEEE Std 802.1AE will maintain conformance with IEEE Std 802, IEEE Std 802.1AC, and IEEE Std 802.1Q.

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.

IEEE Std 802.1AE is already a recognized and established standard. There is no other current standards or standards project with the same scope.

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:

- a) Demonstrated system feasibility.
- b) Proven similar technology via testing, modeling, simulation, etc.

The technical feasibility of IEEE Std 802.1AE and its amendments has already been demonstrated through deployments and use of equipment from multiple vendors in multiple live networks.

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:

- a) Balanced costs (infrastructure versus attached stations).
- b) Known cost factors.
- c) Consideration of installation costs.
- d) Consideration of operational costs (e.g., energy consumption).
- e) Other areas, as appropriate.

The economic factors for adoption of this technology have been shown to outweigh the estimated costs of implementing the solution.