**PAR content**

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| **Submitter Email:** [max.riegel@ieee.org](mailto:max.riegel@ieee.org) **Type of Project:** New IEEE Standard  **1.1 Project Number:** <unassigned> **1.2 Type of Document:** Recommended Practice **1.3 Life Cycle:** Full Use  **2.1 Title:** Network Reference Model and Functional Description of IEEE 802 based Access Networks  **3.1** **Working Group:** IEEE 802.1 **Contact Information for Working Group Chair**    **Name:** Tony Jeffry    **Email Address:**     **Phone:**  **Contact Information for Working Group Vice-Chair** None  **3.2** **Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM) **Contact Information for Sponsor Chair**    **Name:** Paul Nikolich    **Email Address:** [p.nikolich@ieee.org](mailto:p.nikolich%40ieee.org)    **Phone:** 857.205.0050 **Contact Information for Standards Representative**    **Name:** James Gilb    **Email Address:** [gilb@ieee.org](mailto:gilb%40ieee.org)    **Phone:** 858-229-4822  **4.1 Type of Ballot:** Individual **4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 03/2016 <<check with Tony>> **4.3 Projected Completion Date for Submittal to RevCom:** 03/2017 <<check with Tony>>  **5.1 Approximate number of people expected to be actively involved in the development of this project:** 40 **5.2 Scope:**  This document specifies recommendations for deployment of access networks based on the family of IEEE 802 Standards. It describes a Network Reference Model and the behavior and functional composition of IEEE 802 protocols realizing access networks for different purposes.  **5.3 Is the completion of this standard dependent upon the completion of another standard:** No **5.4 Purpose:**  The purpose is to enable users and operators to more easily design and deploy access networks based on IEEE 802 technologies, guide the developers of extensions to the existing standards in how the pieces are fitting together, and to extend the applicability of IEEE 802 standards into new deployment domains by illustrating the structure and functions of the IEEE 802 standards family for access networks.  **5.5 Need for the Project:**  For heterogeneous networks, user terminals may have to support multiple network interfaces, multiple network access technologies, and multiple network subscriptions. The project will generate a specification to design access networks able to cope with such complexity.  Today, many more networks are coming up for connecting any kind of devices, such as Smart Grid, Home Automation or Internet of Things. However, new deployments may suffer the same old networking issues, such as service control, security and provisioning. This project will foster the market growth by unifying the interfaces, enabling sharing of network control, and eventually bringing down the barriers for new network technologies and new operators.  **5.6 Stakeholders for the Standard:**  Network operators, service providers, network equipment manufacturers, semiconductor manufacturers, consumer electronic device manufacturers, standards developers, other IEEE 802 working groups  **Intellectual Property** **6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No **6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No  **7.1 Are there other standards or projects with a similar scope?:** No **7.2 Joint Development**    **Is it the intent to develop this document jointly with another organization?:** No  **8.1 Additional Explanatory Notes (Item Number and Explanation):** ##enter text## |
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**10.5 Criteria for standards development (five criteria)**

Source: <http://www.ieee802.org/PNP/approved/IEEE_802_OM_v11.pdf>

**10.5.1 Broad market potential**

A standards project authorized by IEEE 802 LMSC shall have a broad market potential. Specifically, it shall have the potential for:

a) Broad sets of applicability.

b) Multiple vendors and numerous users.

**10.5.2 Compatibility**

IEEE 802 LMSC defines a family of standards. All standards should be in conformance : IEEE Std 802, IEEE 802.1D, and IEEE 802.1Q. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1 WG. In order to demonstrate compatibility with this criterion, the Five Criteria statement must answer the following questions.

a) Does the PAR mandate that the standard shall comply with IEEE Std 802,

IEEE Std 802.1D and IEEE Std 802.1Q?

b) If not, how will the WG ensure that the resulting draft standard is compliant, or if not, receives appropriate review from the IEEE 802.1 WG?

**10.5.3 Distinct identity**

Each IEEE 802 LMSC standard shall have a distinct identity. To achieve this, each authorized project shall be:

c) Substantially different from other IEEE 802 LMSC standards.

d) One unique solution per problem (not two solutions to a problem).

e) Easy for the document reader to select the relevant specification.

**10.5.4 Technical feasibility**

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:

a) Demonstrated system feasibility.

b) Proven technology, reasonable testing.

c) Confidence in reliability.

***10.5.4.1 Coexistence of IEEE 802 LMSC wireless standards specifying devices for unlicensed operation***

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

 The WG will create a CA document as part of the WG balloting process.

 If the WG elects not to create a CA document, it will explain to the Sponsor the reason the CA document is not applicable.

**10.5.5 Economic feasibility**

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated) for its intended applications. At a minimum, the proposed project shall show:

a) Known cost factors, reliable data.

b) Reasonable cost for performance.

c) Consideration of installation costs.