

## myProject™

Glen Kramer [Sign Out](#)

 [myTools](#)

 [Help](#)

 [Messages](#) (297 unread)

 [Report a Bug](#)

 [Announcements](#)

 [Account](#)

[Projects](#)

[Balloting](#)

[Entity](#)

myProject™ >> [Submit a PAR](#)

[Download as PDF](#) | [Submit a PAR](#)

PAR for a Revision to an existing IEEE Standard - P1904.1-REV

### Section 1

1.1 ASSIGNED PROJECT NUMBER:

If left Blank, a project number will be assigned by the NesCom Administrator when your PAR is received. Please contact the [NesCom Administrator](#) for any questions about a specific project number.

If a specific project number is not required, this field can be left blank.

1.2 TYPE OF DOCUMENT:

- Standard
- Recommended Practice
- Guide

Standards, Guides, and Recommended Practices are generically referred to as IEEE Standards.

**Standards** are documents with mandatory requirements. Standards are generally characterized by the use of the verb "shall."

**Recommended practices** are documents in which procedures and positions preferred by the IEEE are presented. Recommended practices are generally characterized by the use of the verb "should."

**Guides** are documents in which alternative approaches to good practice are suggested, but no clear-cut recommendations are made. Guides are generally categorized by the use of the verb "may."

- 1.3 LIFE CYCLE:**  Full Use  
 Trial Use

A standard can be designated trial-use or full-use.  
A standard can be designated as trial-use when a draft satisfies the criteria of the standards-developing group (i.e., subcommittee or working group), but needs input from a very broad constituency. This is a preferred alternative to the widespread distribution of unapproved drafts. Such a draft requires a letter ballot of the sponsor and approval by the IEEE-SA Standards Board as a trial-use standard. Trial-use standards are effective for no more than two years from the date of publication. If no comments are received during the trial period, the standard is subject to adoption as a full-use standard upon receipt of written recommendation from the sponsor and approval by the IEEE-SA Standards Board.

## Section 2

**2.1 PROJECT TITLE:**

Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)

The title shall not contain the acronym "IEEE". This is added to the title when the standard publishes. All other acronyms shall be spelled out in the title. 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).

## Section 3

**3.1 WORKING GROUP:** Requested: IEEE 1904 Access Networks (COM/SDB/1904)

**3.2 SPONSORING SOCIETY AND COMMITTEE:**

IEEE Communications Society/Standards Development Board (COM/SDB)

**3.3 JOINT SPONSOR:**

If you are not adding a joint sponsor to this project, you may leave this blank.

If a project will be jointly sponsored between two IEEE-SA Sponsors, a Joint Sponsorship Agreement (JSA) is required. Download a [JSA](#), complete the form and submit it via email to the [NesCom Administrator](#) at the time of PAR submittal. A jointly sponsored PAR will not be approved without a JSA.

## Section 4

**4.1 SPONSOR BALLOTING INFORMATION:**

- Individual  Entity

Is the balloting group for this standard expected to be composed of individuals or of entities (persons representing corporations/government bodies/academic institutions, or SDO's)? See [Section 5.4.1 in the IEEE-SA Standards Board Operations Manual](#) for further explanation.

**4.2 EXPECTED DATE OF SUBMISSION OF DRAFT TO THE IEEE-SA FOR INITIAL SPONSOR BALLOT:**

Dec / 2015

Additional communication and input from other organizations or other IEEE Standards Sponsors should be encouraged through participation in the working group or the invitation pool prior to Sponsor Ballot.

**4.3 PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM:**

May / 2016

Enter the date the draft standard is planned to be submitted to RevCom for processing (not to exceed four years from the date of PAR submission). **It is suggested to allow at least six months after Initial Sponsor Ballot for the ballot process.** Cutoff dates for submitting draft standards to RevCom are generally in February, May, August, and October. Check the appropriate calendars for the specific dates as the draft matures. Use a best guess estimate for the PAR.

**Section 5**

**5.1 APPROXIMATE NUMBER OF PEOPLE EXPECTED TO BE ACTIVELY INVOLVED IN THE DEVELOPMENT OF THIS PROJECT:**

20

This includes Working Group members, additional non-voting participants, etc.

**5.2 SCOPE OF PROPOSED STANDARD:**

This standard describes the system-level requirements needed to provide service-level, multi-vendor interoperability of Ethernet Passive Optical Network (EPON) equipment. The specifications complement the existing IEEE 802.3(TM) and IEEE 802.1(TM) standards, which enable the interoperability at the Physical Layer and Data Link Layer.1 Specifically included in this specification are

- EPON system-level interoperability specifications covering equipment functionality, traffic engineering, and service-level quality of service/class of service (QoS/CoS) mechanisms;
- Management specifications covering equipment management, service management, and power utilization.

The Scope should appear as it will in the draft standard. The Scope stated on the PAR shall be written in present tense, in complete sentences, and with proper grammar as it is intended to appear in the published standard. All acronyms shall be spelled out at first use. The title and (if appropriate) date of any document referenced in the Scope shall be listed in the Additional Explanatory Notes field at the end of this PAR form.

**5.3 IS THE COMPLETION OF THIS STANDARD CONTINGENT UPON THE COMPLETION OF ANOTHER STANDARD?:**

Yes  No

Your explanation should include how the standard is dependent upon the completion of another standard. Also, if applicable, why a PAR request is being submitted if the standard currently under development is not yet complete. The title and number of the standard which this project is contingent upon shall be included in the explanation.

**5.4 WILL THIS DOCUMENT CONTAIN A PURPOSE CLAUSE?:**

Yes  No

A purpose statement is encouraged but not mandatory. If the document will not include a purpose statement choose "No" and leave the purpose field blank.

The Purpose stated on the PAR shall be written in present tense, in complete sentences, and with proper grammar as it is intended to appear in the published standard. The title and (if appropriate) date of any document referenced in the Purpose shall be listed in the Additional Explanatory Notes field at the end of this PAR form.

**IF YES, ENTER THE PURPOSE OF PROPOSED STANDARD:**

The purpose of this standard is to build upon the IEEE 802.3ah (1G-EPON) and IEEE 802.3av (10GEAPON) Physical Layer and Data Link Layer standards and create a system-level and network-level standard, thus allowing full "plug-and-play" interoperability of the transport, service, and control planes in a multi-vendor environment.

**5.5 NEED FOR THE PROJECT:**

More than 30 million subscribers are being served by 1G-EPON now, and it is expected that deployment volumes soon will reach more than 10 million new subscribers annually. There are no open, international, system-level specifications describing how to achieve multi-vendor interoperability.

A detailed system-level standard, developed in an open fashion by the IEEE, will eliminate the need for service providers and national bodies to create unique interoperability specifications that needlessly fragment the market. This will serve a number of important purposes:

- EPON devices will follow a common specification for the world-wide market, resulting in larger volumes and reduced costs;
- Operators will not face the challenge of developing system-level specifications and interoperability testing procedures before they can deploy EPON;
- EPON vendors will not need to implement multiple options to comply with multiple proprietary/national specifications. Reduced device complexity will further reduce costs;
- Competition among EPON equipment and component suppliers will increase, thus driving further innovation and cost reductions.

The need for the project details the specific problem that the standard will resolve and the benefit that users will gain by the publication of the standard. The need statement should be brief, no longer than a few sentences.

**5.6 STAKEHOLDERS FOR THE STANDARD:**

The stakeholders include telecom system and component vendors, telecommunications carriers, and multiple system operators (MSOs)

The stakeholders (e.g., telecom, medical, environmental) for the standard consist of any parties that have an interest in or may be impacted by the development of the standard.

Section 6

6.1 Intellectual Property:

**A. IS THE SPONSOR AWARE OF ANY COPYRIGHT PERMISSIONS NEEDED FOR THIS PROJECT?:**

Yes  No

If the proposed standard uses copyrighted material, copyright releases must be obtained by the working group and shall be included in the final package submitted to the IEEE-SA Standards Board. Additionally, remember that during development of your approved project, the proper IEEE copyright notices must be maintained on all drafts.

**B. IS THE SPONSOR AWARE OF POSSIBLE REGISTRATION ACTIVITY RELATED TO THIS PROJECT?:**

Yes  No

The IEEE Registration Authority Committee (RAC) is a mandatory coordination body. A YES answer to this question provides early notification that RAC mandatory coordination will occur during Sponsor ballot. Working groups are welcome to engage the RAC if appropriate earlier in the project.

If the proposed standard requires (or is expected to require) the unique identification of objects or numbers for use in industry, the project has registration activity. This does not cover things like code points defined within the standard.

A YES answer with brief explanation is appropriate if:

1. The proposed standard creates a new registry.
2. The proposed standard includes new use of an existing registry (whether IEEE RA or other registry authority). An existing IEEE registry example would be use of an Organizationally Unique Identifier (OUI). An explanation of a new registration activity should be supplied on the PAR. Please visit the IEEE Registration Authority website (<http://standards.ieee.org/regauth/index.html>) for additional information regarding existing registries.
3. When RAC review of previously reviewed text is appropriate to assure terminology and descriptions of usage are current.

A NO answer is appropriate:

1. When the project has no registration activity.
2. When a project modifying an existing standard with registration activity will not be adding new text nor modifying existing registration activity text previously reviewed by the IEEE Registration Authority (e.g., corrigendum on non-registry content). Please briefly explain why RAC review is not required.

Please note that the RAC may request mandatory coordination on any project, independent of the answer to this question.

Section 7

**7.1 ARE THERE OTHER STANDARDS OR PROJECTS WITH A SIMILAR SCOPE?:**

Yes  No

Identify any standard(s) or project(s) of similar scope(s), both within or outside of the IEEE, and explain the need for an additional standard in this area.

**7.2 JOINT DEVELOPMENT - IS IT THE INTENT TO DEVELOP THIS DOCUMENT JOINTLY WITH ANOTHER ORGANIZATION?:**

Yes  No

If this document will be developed jointly with another organization, your IEEE-SA Staff Liaison must be made aware of this prior to final approval of the document by the IEEE-SA Standards Board [RevCom].

Information from 7.3 - 7.4 is captured for potential follow up and coordination but will not appear on the final PAR view.

**7.3 International Standards Activities**

**A. ADOPTIONS - IS THERE POTENTIAL FOR THIS STANDARD TO BE ADOPTED BY ANOTHER ORGANIZATION?:**

Yes  No

If this document is to be adopted by another organization, the document must be adopted intact (whole and unmodified) and the requested contact persons entered on the submittal form. For information about adoptions, contact your IEEE-SA Staff Liaison.

**B. HARMONIZATION - ARE YOU AWARE OF ANOTHER ORGANIZATION THAT MAY BE INTERESTED IN PORTIONS OF THIS DOCUMENT IN THEIR STANDARDIZATION DEVELOPMENT EFFORTS?:**

Yes  No

If the document is to form the basis of or be included in an international standard, state the name of the organization, the number of the technical committee/subcommittee (if applicable) and the information for the contact person from the other organization, along with any other pertinent information.

If yes, please indicate the organization, technical committee name/number and contact person within external organization

**ORGANIZATION:**

**TECHNICAL COMMITTEE NAME:**

**TECHNICAL COMMITTEE NUMBER:**

**CONTACT NAME:**

**PHONE:**

**EMAIL:**

**7.4 DOES THE SPONSOR FORESEE A LONGER TERM NEED FOR TESTING AND/OR CERTIFICATION SERVICES TO ASSURE CONFORMITY TO THE STANDARD?:**

Yes  No

**ADDITIONALLY, IS IT ANTICIPATED THAT TESTING METHODOLOGIES WILL BE SPECIFIED IN THE STANDARD TO ASSURE CONSISTENCY IN EVALUATING CONFORMANCE TO THE CRITERIA SPECIFIED IN THE**

Yes  No

STANDARD?:

Section 8

**8.1 ADDITIONAL EXPLANATORY NOTES:**

The standard will be revised to address a number of maintenance requests (see [http://www.ieee1904.org/revision/maint\\_requests/1904\\_1\\_2013/rmtf\\_1904\\_1\\_2013\\_maint\\_reqs.xlsx](http://www.ieee1904.org/revision/maint_requests/1904_1_2013/rmtf_1904_1_2013_maint_reqs.xlsx)) and to add specifications for Optical Link Protection for Package A.

Item #7.4: Conformance Test Procedures for IEEE 1904.1-2013 are specified in P1904.1-Conformance01-2014, P1904.1-Conformance02-2014, and P1904.1-Conformance03-2014 standards. It is expected that this revision to 1904.1-2013 will not require any changes to the Conformance Test Procedures.

If there is any further information that may assist NesCom in recommending approval for this project, include this information here. The title of any documents referenced in the PAR should be listed here.

For a revision PAR, a brief explanation of why the Standard is being revised shall be included in 8.1. Include the Item # in front of each explanation to distinguish which PAR field it is referring to.

**8.2 IEEE Code of Ethics**

- I acknowledge that I have read and I understand the [IEEE Code of Ethics](#)
- I agree to conduct myself in a manner that adheres to the IEEE Code of Ethics when engaged in official IEEE business.

PREVIEW AND SUBMIT

DISCARD

SAVE