PAR for a New IEEE Standard

Section 1

1.1   Assigned Project Number:

P802f

1.2   Type of Document: *Standard, Recommended Practice, or Guide*

Standard

1.3   Life Cycle: *Full Use or Trial Use*

Full Use

Section 2

2.1   Project Title:

IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture Amendment: YANG Data Model for Ethertype Friendly Names

Section 3

3.1   Working Group: (auto-filled)

3.2   Sponsoring Society and Committee: (auto-filled)

[A listing of Sponsor P&Ps and Sponsor Scopes is available at https://development.standards.ieee.org/pub/view-sponsor-pnps]

3.3   Joint Sponsor: (chosen from drop down menu)

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

Section 4

4.1   Sponsor Balloting Information: *Individual or Entity*

Individual

4.2   Expected Date of Submission of Draft to the IEEE-SA for Initial Sponsor Ballot

Month: July   Year: 2020

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

Month: February   Year: 2021

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:

10

5.2   Scope of the proposed standard:

Create a procedure to generate YANG modules that contains the full Ethertype information found in the IEEE Registration Authority Ethertype public list. The generated YANG modules also provide friendly names for selected Ethertype values where possible.

5.3   Is the completion of this standard contingent upon the completion of another standard? No

5.4   Will this document contain a Purpose clause? Yes

If yes, enter the purpose of the proposed standard:

This standard will provide the industry with YANG modules that contain Ethertypes.

5.5   Need for the project:

YANG (RFC 7950) is a formalized data modeling language that is widely accepted and can be used to simplify network configuration. The ability to utilize a standard procedure generating a list of Ethertypes will aid in compatibility and efficiency of management of modern networks.

5.6   Stakeholders for the standard:

Developers, providers, and users of networking services and equipment.

Section 6

6.1   Intellectual Property:

    A. **Is the Sponsor aware of any copyright permissions needed for this project?**   *No*

    B. **Is the Sponsor aware of possible registration activity related to this project?**   *Yes*

The YANG Data Model will be assigned a URN based on the RA URN tutorial and IEEE Std 802d. The YANG data model will use a type definition for MAC addresses.

Section 7
7.1   Are there other standards or projects with a similar scope? *Yes*

The IETF has requested that the IEEE create an Ethertypes YANG module, since the IEEE owns the Ethertypes registry. The IETF will use the IEEE module once completed and deprecate the Ethertypes Modules they have written which is found in RFC 8519 "YANG Data Model for Network Access Control Lists (ACLs)" https://tools.ietf.org/html/rfc8519.

Sponsor Organization: IETF

Project/Standard Number: RFC 8519

Project/Standard Date: March 2019

Project/Standard Title: YANG Data Model for Network Access Control Lists (ACLs)

Information from 7.2 – 7.4 is captured for potential follow up and coordination but will not appear on the final PAR view.

7.2   Joint Development - Is it the intent to develop this document jointly with another organization? *No*

7.3   International Standards Activities

A. **Adoptions - Is there potential for this standard to be adopted by another organization?:** *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.

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:

B. **Harmonization - Are you aware of another organization that may be interested in portions of this document in their standardization development efforts? YES**

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

Organization: IETF

Technical Committee Name: IETF YANG Doctors

Technical Committee Number:

Contact Name: Dan Romascanu

Phone:

Email: dromasca@gmail.com

7.4 **Does the sponsor foresee a longer term need for testing and/or certification services to assure conformity to the standard?** *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 standard? *No*

Section 8

8.1   Additional Explanatory Notes:

#2.1 While 'YANG' (developed by the Internet Engineering Task Force) appears to be an acronym its expansion 'Yet Another Next Generation' is not meaningful. It is vital that 'YANG' appear in the project title to inform potential participant and the target readership of the amendment.

#5.1 Drafts will be shared with IETF YANG experts, it will use content from IETF work (http://standards-oui.ieee.org/ethertype/eth.txt), and will be reviewed by IETF YANG experts and a broader set of 802.1 participants (Working Group ballot) prior to Standards Committee ballot.

8.2   IEEE Code of Ethics

The PAR will not be accepted if the box below is not checked.

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.