**PAR for a New IEEE Standard**

# Section 1

* 1. **Assigned Project Number**: P802.1CB??
  2. **Type of Document:** Standard
  3. **Life Cycle:** Full Use

# Section 2

**2.1 Project Title:**

Draft Standard for Local and metropolitan area networks -- Frame Replication and Elimination for Reliability - Extended Stream Identification Functions

# 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

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

**Month:** ? **Year:** ?

**4.3 Projected Completion Date for Submittal to RevCom**

**Month:** ? **Year:** ?

# Section 5

**5.1 Approximate number of people expected to be actively involved in the development of this project:**

30

**5.2.a Scope of the complete standard:**

- Identification and replication of frames, for redundant transmission.

- Identification of duplicate frames.

- Elimination of duplicate frames.

**5.2.b Scope of the project:**

This amendment specifies procedures and managed objects that support stream identification functions, based on configurable frame parameters and protocol fields, that extends the stream identification functions already specified in Clause 6.

**5.3 Is the completion of this standard contingent upon the completion of another standard?**

Yes.

802.1CBcv specifies a MIB and YANG models for the managed objects defined in IEEE Std 802.1CB-2017, excluding the extended stream identification functions specified in this project.

The MIB and YANG models for the extended stream identification functions have to be specified using the same conventions and rules as those used in 802.1CBcv.

*A new PAR is being requested for this work since this project is also adding new stream identification functionality that is beyond the scope of 802.1CBcv.*

**If yes, explain:**

Your explanation should include how the standard is dependent upon the completion of another standard. Also, if applicable, explain 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?**

No.

**5.5 Need for the project:**

Stream identification is required by an increasing number of traffic management mechanisms implemented in Layer 2 : ingress policing, traffic scheduling, congestion management, mapping to traffic classes, that make Ethernet networks adapted for a growing number of high-performance applications.

Current stream identification methods defined in IEEE Std 802.1CB are insufficient for some of these applications.

**5.6 Stakeholders for the standard:**

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

Industrial Automation, In-vehicle networking, Professional Audio-Video (AV),

Data Center and other systems requiring application-based traffic classification, including networking integrated circuit (IC) developers, bridge

and network interface card (NIC) vendors, and users.

# Section 6

**6.1 Intellectual Property:**

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

**If yes, please explain below:**

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?** No

**If YES, please explain below:**

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/develop/regauth/>) 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?**

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.

**Sponsor Organization:**

**Project/Standard Number:**

**Project/Standard Date:**

**Project/Standard Title:**

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.

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].

**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:**

**7.3 International Standards Activities**

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

**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 or 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? *Yes or No***

# Section 8

**8.1 Additional Explanatory Notes:**

Include the Item # in front of each explanation to distinguish which PAR field it is referring to.

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.

**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**](http://www.ieee.org/portal/pages/iportals/aboutus/ethics/code.html)

**I agree to conduct myself in a manner that adheres to the IEEE Code of Ethics when engaged in official IEEE business.**