IEEE-SA Standards Board Project Authorization Request (PAR) Form (2002)

For a review of the Standards Development Process (designed to assist the Working Group, Working Group Chair, Sponsor Chair, and Society Liaison), please check here.

1. Assigned Project Number (Please leave blank if not available) [P802.1AD]

2. Sponsor Date of Request [2002 July 12]

3. Type of Document (Please check one)
[X] Standard for {document stressing the verb "shall"}
[ ] Recommended Practice for {document stressing the verb "should"}
[ ] Guide for {document in which good practices are suggested, stressing the verb "may"}

4. Title of Document: Draft [Standard for Multiple Instance MAN Services]

5. Life Cycle
[XX] Full Use (5-year life cycle)
[ ] Trial Use (2-year life cycle)

6. Type of Project:
[XX] New standard
[ ] Revision of existing standard (indicate Number and year existing standard was published in box to the right) [ ] (####-YYYY)
[ ] Amendment to an existing standard (indicate Number and year existing standard was published in box to the right) [ ] (####-YYYY)
[ ] Corrigendum to an existing standard (indicate Number and year existing standard was published in box to the right) [ ] (####-YYYY)
[ ]Revised PAR (indicate PAR Number and Approval Date here: P [ ] - [ ] (YYYY-MM-DD)
Is this project in ballot now? [ ]
State reason for revising the PAR in Item #18.

7. Contact information of Working Group Chair who must be an SA member as well as an IEEE and/or Affiliate Member

Name of Working Group(WG) : [802.1]

Name of Working Group Chair:
First Name [Tony] Last Name: [Jeffree]
Telephone: [+44-161-973-4278]
FAX: [+44-161-973-6534]
EMAIL: [tony@Jeffree.co.uk]

8. Contact Information of Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair. The Official Report must be an SA member as well as an IEEE and/or Affiliate Member

Name of Official Reporter (if different than Working Group Chair:
First Name [ ] Last Name: [ ]
Telephone: [ ]
FAX: [ ]
EMAIL: [ ]

9. Contact information of Sponsoring Society or Standards Coordinating Committee

Sponsoring Society and Committee: [IEEE P802 LMSC]
Sponsor Committee Chair: [Paul Nikolich]
First Name [ ] Last Name: [ ]
Telephone: [781 334-6524,]
FAX: [781 334-2255]
EMAIL: [p.nikolich@ieee.org]

10. Sponsor Balloting Information (Please choose one of the following)
Choose one from the following:
[XX] Individual Balloting
[ ] Entity Balloting
[ ] Mixed Balloting (combination of Individual and Entity Balloting)

Expected Date of Submission for Initial Sponsor Ballot: [2004-12-31] (Format: YYYY-MM-DD)

Please review the PAR form three months prior to submitting your draft for ballot to ensure that the title, scope and purpose on the PAR form match the title, scope and purpose on the draft. If they do not match, you will need to submit a revised PAR.

Additional communication and input from other organizations or other IEEE Standards Sponsors should be encouraged through participation in the working group or the balloting pool.

11. Projected Completion Date for Submittal to RevCom [2005-12-31] (Format: YYYY-MM-DD)

If this is a REVISED PAR and the completion date is being extended past the original four-year life of the PAR, please answer the following questions. If this is not a revised PAR, please go to question #12

Statement of why the extension is required: [ ]

When did you begin writing the first draft? (Format: YYYY-MM-DD): [ ]

How many people are actively working on the project?: [ ]

How many times a year does the working group meet in person?: [ ]

How frequently is a draft version circulated to the working group via electronic means?: [ ]

How much of the Draft is stable (Format: NN%)?: [ ]

How many significant working revisions has the Draft been through?: [ ]

Briefly describe what the development group has already accomplished, and what remains to be done: [ ]

12. Scope of Proposed Project
[Projected output including technical boundaries. REVISED STANDARDS - Projected output including the scope of the original standard, amendments and additions. Please be brief (less than 5 lines).]

To develop an architecture and bridge (-1-) protocols, compatible and interoperable with existing Bridged Local Area Network protocols and equipment, to:

- provide separate instances the MAC service (-3-) to multiple independent users of a Bridged Local Area Network (-1-, -2-) in a manner that does not require cooperation among the users, and requires a minimum of cooperation between the users and the provider of the MAC service.

- enable multiple instances of a Bridged Local Area Network to be concatenated to create a much larger Bridged Local Area Network, without requiring that a single instance of the spanning tree protocol (-1-, -4-) encompass the concatenation.

To define basic management of users' MAC services.

-1- IEEE Std. 802.1D
-2- IEEE Std. 802.1Q
-3- IEEE Std. 802.0.
-4- IEEE P802.1S.

13. Purpose of Proposed Project:
[Intended users and user benefits. REVISION STANDARDS - Purpose of the original standard and reason for the standard's revision. Please be brief (less than 5 lines).]

The set of technologies known as MAN Services enables a Service Provider to offer the equivalent of either separate LAN Segments, Bridged or Virtual Bridged LANs, to a number of users, over the Provider's network. This Standard will provide an architecture, protocols, and mappings for bridges to provide that interoperability and consistent management.

14. Intellectual Property {Answer each of the questions below}

Sponsor has reviewed the IEEE patent policy with the working group?
[Yes] {Yes/No}

Sponsor is aware of copyrights relevant to this project?
[No] {Yes/No}

Sponsor is aware of trademarks relevant to this project?
[No] {Yes/No}

Sponsor is aware of possible registration of objects or numbers due to this project?
[No] {Yes/No}

15. Are there other standards or projects with a similar scope?
[No] {Yes, with explanation below/ No}
[see 13 “Purpose”.] {Explanation}

If Yes, please answer the following:
Sponsor Organization: [ ]
Project Number: [ ]
Project Date: [ ] (YYYY-MM-DD)

16. International Sponsor Organization

Is there potential for this standard (in part or in whole) to be submitted to an international organization for review/adoption?
[No] {Yes/No/?? if you don't know at this time}

If Yes, please answer the following questions:
International Committee Name and Number: [ ]
International Organization Contact Information:
Contact First Name: [ ]
Contact Last Name: [ ]
Contact Telephone Number: [ ]
Contact FAX Number: [ ]
Contact E-mail address: [ ]

17. Will this project focus on health, safety or environmental issues?
[No] {Yes/No/?? if you don't know at this time}
If Yes: Explanation? [ ]

18. Additional Explanatory Notes: {Item Number and Explanation}
[As the working group in ISO/IEC JTC1 SC6 responsible for 15802-1 is in the process of winding down, and as this material is still of value to the LAN standards community in IEEE 802, it is appropriate to document this material as an 802 standard. This also offers a useful opportunity to collect together the MAC service definition along with the ISS and EISS which are closely related to it, in one document.]{If necessary, these can be continued on additional pages}

The PAR Copyright Release and Signature Page must be submitted either by FAX to 732-562-1571 or as an e-mail attachment in .pdf format to the NesCom Administrator before this PAR will be sent on for NesCom and Standards Board approval.

5 Criteria

1 Broad Market Potential

A standards project authorized by IEEE 802 shall have a broad market potential. Specifically, it shall have the potential for:
a) Broad sets of applicability.
b) Multiple vendors and numerous users.
c) Balanced costs (LAN versus attached stations).

This project is intended to facilitate the use of existing Bridged and Virtual Bridged LAN technologies in service provision environments. Despite user demand and initial deployment of LAN-based service provision, there is currently no interoperability between different vendors, nor a coherent management framework for different techniques.

In the absence of an IEEE P802.1 standard, other standards bodies are defining similar services, using other technologies, which may be incompatible with services based on bridged LANs. For example, the IETF is currently engaged in a layer 2 VPN standard development; it is our intention that this 802 project will make use of the results of that work, and will assist the IETF in developing a L2VPN interface that is compatible with LAN Bridging techniques.

The costs related to this technology should be broadly similar to those of existing Bridging technology based on 802.1D/802.1w/802.1Q/802.1s.

2 Compatibility

IEEE 802 defines a family of standards. All standards shall be in conformance with the IEEE 802.1 Architecture, Management and Interworking documents as follows: 802. Overview and Architecture, 802.1D, 802.1Q and parts of 802.1f. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with 802.
Each standard in the IEEE 802 family of standards shall include a definition of managed objects which are compatible with systems management standards.

This project will be compatible with existing 802.1 Architecture, Management and Interworking standards.

3 Distinct Identity

Each IEEE 802 standard shall have a distinct identity. To achieve this, each authorized project shall be:
a) Substantially different from other IEEE 802 standards.
b) One unique solution per problem (not two solutions to a problem).
c) Easy for the document reader to select the relevant specification.

There is no other IEEE standard or project that has the same scope & purpose.
There is no existing solution available within our current standards or projects.
It will be easy for the document reader to select the relevant specification.

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.

The proposed standard will extend existing, proven, standardized, Bridged LAN technology.

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.

The technology that will be developed in proposed standard will not differ significantly from the economic factors associated with existing Bridged LAN and Virtual Bridged LAN technologies.