

IEEE-SA STANDARDS BOARD

PROJECT AUTHORIZATION REQUEST (PAR) FORM (2004)

The submittal deadlines for the year **2004** are available.

Prior to submitting your PAR, please review the [NesCom Conventions](#).

1. **ASSIGNED PROJECT NUMBER** P (Please leave blank if not available)

2. **SPONSOR DATE OF REQUEST** Day: Month: Year: 2004

3. **TYPE OF DOCUMENT** (Please check one)

- 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 Information Technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Resilient Packet Ring Access Method & Physical Layer Specifications - Amendment 1 - Spatially Aware Sublayer

5. **LIFE CYCLE**

- Full-Use**
- Trial-Use**

6. **TYPE OF PROJECT**

- New document
- Revision of an existing document (indicate Number and year existing document was published in box to the right):
- Amendment to an existing document (indicate Number and year existing document was published in box to the right): (####-YYYY)
- Corrigendum to an existing document (indicate Number and year existing document was published in box to the right):

Modified PAR (indicate PAR Number and Approval Date here: P - Day: Month: Year:)

Is this project in ballot now? Yes No

State reason for modifying the PAR in [Item #19](#).

7. **WORKING GROUP INFORMATION:**

Name of Working Group:

Approximate Number of Expected Working Group Members:

8. CONTACT INFORMATION FOR WORKING GROUP CHAIR (must be an SA member as well as an IEEE and/or Affiliate Member)

Name of Working Group Chair: First Name: Last Name:
 Telephone: FAX: E-mail:

9. CONTACT INFORMATION FOR CO-CHAIR/OFFICIAL REPORTER, Project Editor or Document Custodian if different from the Working Group Chair (must be an SA member as well as an IEEE and/or Affiliate Member)

Name of Co-Chair/Official Reporter (if different than Working Group Chair): First Name:
 Last Name:
 Telephone: FAX: E-mail:

10. CONTACT INFORMATION FOR SPONSORING SOCIETY OR STANDARDS COORDINATING COMMITTEE

Sponsoring Society and Committee: (Please choose the correct acronym for your Sponsor Society/Technical Committee or SCC. [For an acronym list, please click here.](#))

Sponsor Committee Chair: First Name: Last Name:
 Telephone: FAX: E-mail:

Standards Coordinator (Power Engineering Society Only):

Standards Coordinator: First Name: Last Name:
 Telephone: FAX: E-mail:

IF THIS PROJECT IS BEING SPONSORED BY TWO SPONSORS, PLEASE COMPLETE THE INFORMATION BELOW

Sponsoring Society and Committee: (Please choose the correct acronym for your Sponsor Society/Technical Committee or SCC. [For an acronym list, please click here.](#))
 Sponsor Committee Chair: First Name: Last Name:
 Telephone: FAX: E-mail:

Standards Coordinator (Power Engineering Society Only):

Standards Coordinator: First Name: Last Name:

Telephone:

FAX:

E-mail:

11. SPONSOR BALLOTING INFORMATION (Please choose one of the following):

- Individual Balloting
 Entity Balloting
 Mixed Balloting (combination of Individual and Entity Balloting)

Expected Date of Submission for Initial Sponsor Ballot: Month: Day: Year:)

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 modified PAR.

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.

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM Day: Month: Year:

If this is a MODIFIED 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 modified PAR, please go to question #13**

a. Statement of why the extension is required:

b. When did work on the first draft begin?

Day: Month: Year:

c. How many people are actively working on the project?:

d. How many times a year does the working group meet in person?:

e. How many times a year does the working group meet using electronic means (i.e. teleconference, e-mail, web-based meetings)?:

f. How frequently is a draft version circulated to the working group?:

g. How much of the Draft is stable
(Format: NN%)?: %

h. How many significant working
revisions has the Draft been through?:

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

13. SCOPE OF PROPOSED PROJECT

Please detail the projected output including technical boundaries. Please be brief (less than 5 lines).

FOR REVISED DOCUMENTS ONLY - Please detail the projected output including the scope of the original document, amendments and additions.

This project amends 802.17-2004 adding one or more new clauses defining optional extensions to support increased spatial reuse on the media. 802.17-2004 allows spatial reuse for ring local unicast transmissions, this amendment adds support for spatial reuse of other frame transmissions (e.g. remote bridging as seen in 802.1 D/Q). Changes to existing clauses of 802.17-2004 are permitted if required to support the new clauses.

Is the completion of this document contingent upon the completion of another document?

Yes (with detailed explanation below) No

14. PURPOSE OF PROPOSED PROJECT

Please clearly and concisely define "why" the document is being done. Please be brief (less than 5 lines).

FOR REVISED DOCUMENTS ONLY - Please detail the projected output including the scope of the original document, amendments and additions.

802.17-2004 provides spatial reuse for ring-local unicast transmissions. This limits spatial reuse to host stations (e.g. routers) attached to the ring and precludes other devices that(eg. bridges). The amendment will extend the class of frame types and device types that can achieve spatial reuse to significantly improve bandwidth efficiency on Resilient Packet Rings.

14a. Please give the specific reason for the standardization project, with particular emphasis on the problem being solved, the benefit to be received and target users or industries.

Spatial Reuse is achieved by stations stripping a frame from the media once it has reached its destination. This differs from previous 802 ring technologies where the frame was required to circulate around the entire ring. Destination stripping increases overall ring efficiency as bandwidth is not wasted with continued circulation of the frame.

15. INTELLECTUAL PROPERTY (Answer each of the questions below.)

Sponsor has reviewed the [IEEE-SA patent material](#) with the working group? Yes No

Sponsor is aware of [copyright](#) permissions needed for this project? Yes No

If yes, please explain:

Sponsor is aware of [trademarks](#) that apply to this project? Yes No

If yes, please explain:

Sponsor is aware of possible [registration of objects](#) or numbers to be included in or used by this project?

Yes No

If yes, please explain:

A 48-bit multicast address to be used for control may be required from the IEEE RAC.

16. ARE THERE OTHER DOCUMENTS OR PROJECTS WITH A [SIMILAR SCOPE](#)?

Yes (with detailed explanation below) No

If Yes, please answer the following:

Sponsor Organization:

Project Number:

Project Date: Day: Month: 01 Year:

Project Title:

17. FUTURE ADOPTIONS

Is there potential for this document (in part or in whole) to be adopted by another national, regional or international organization?

If Yes, the following questions must be answered:

Technical Committee Name and Number: TC SC WG

Other Organization Contact Information:

Contact Name: First Name: Last Name:

Contact Telephone Number:

Contact FAX Number:

Contact E-mail address:

18. IF THE PROJECT WILL RESULT IN ANY HEALTH, SAFETY, OR ENVIRONMENTAL GUIDANCE THAT AFFECTS OR APPLIES TO HUMAN HEALTH OR SAFETY, PLEASE EXPLAIN, IN FIVE SENTENCES OR LESS.

19. ADDITIONAL EXPLANATORY NOTES {Item Number and Explanation}

I acknowledge having read and understood the [IEEE Code of Ethics](#). I agree to conduct myself in a manner which adheres to the IEEE Code of Ethics when engaged in official IEEE business.

The **PAR Copyright Release and Signature Page** must be submitted by FAX to +1 732-875-0695 to the [NesCom Administrator](#) before this PAR will be sent on for NesCom and Standards Board approval.