

The PAR Copyright Release and [Signature Page](#) must be submitted by FAX to +1-732-875-0695 to the [NesCom Administrator](#).

If you have any questions, please contact the NesCom Administrator.

Once you approve and submit the following information, changes may only be made through the NesCom Administrator.

Draft PAR Confirmation Number: 186696341.23514	
Submittal Email: paul.congdon@hp.com	
Type of Project: Revision to an Existing Standard 802.1AB-2005	
1.1 Project Number: P802.1AB	
1.2 Type of Document: Standard for	
1.3 Life Cycle: Full	
1.4 Is this project in ballot now? No	
2.1 Title of Standard: Standard for Local and metropolitan area networks -- Station and Media Access Control Connectivity Discovery	Old Title: IEEE Standard for Local and metropolitan area networks -- Station and Media Access Control Connectivity Discovery
3.1 Name of Working Group: Higher Layer LAN Protocols Working Group	
Contact information for Working Group Chair Tony A Jeffree Email: tony@jeffree.co.uk Phone: +44-161-973-4278	
Contact Information for Working Group Vice Chair Email: Phone:	
3.2 Sponsoring Society and Committee: IEEE Computer Society/Local and Metropolitan Area Networks (C/LM) Contact information for Sponsor Chair: Paul Nikolich Email: p.nikolich@ieee.org Phone: 857-205-0050 Contact information for Standards Representative: Email: Phone:	
3.3 Joint Sponsor:/ () Contact information for Sponsor Chair: Email: Phone: Contact information for Standards Representative: Email: Phone:	

4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: 2008-11

4.3 Projected Completion Date for Submittal to RevCom: 2009-07

5.1 Approximate number of people expected to work on this project: 100

5.2 Scope of Proposed Standard: To define a protocol and management elements, suitable for advertising information to stations attached to the same LAN/MAN, for the purpose of populating physical topology and device discovery management information databases. The protocol will facilitate the identification of stations connected by IEEE 802 LANs/MANs, their points of interconnection and their access points for management protocols.

5.3 Is the completion of this standard is dependent upon the completion of another standard:

No

If yes, please explain:

5.4 Purpose of Proposed Standard: An IETF standard MIB (RFC 2922) as well as a number of vendor specific MIBs have been created to describe a network's physical topology and associated devices connected to that topology, however, there is no standard protocol for populating this MIB or communicating this information among stations on the LAN/MAN. This standard will specify the necessary protocol and management elements.

5.5 Need for the Project: New destination addresses and explicit forwarding rules for LLDP frames are needed to accurately determine the topology over transparent forwarding devices such as those defined by 802.1ad and 802.1aj. Additionally, new and developing 802 standards, such as 802.3at, 802.1at and 802.1au, have the need to rapidly discover the boundary in the topology for which particular capabilities are operating. New information elements and a more rapid exchange of LLDP frames is necessary to support the timely discovery of this boundary. Users of this standard will be able to accurately exchange information on a greater set of 802.1 topologies and will experience a more rapid convergence of information.

5.6 Stakeholders for the Standard: This standard will be of interest to all current 802 LAN users as well as new use cases such as consumer electronics, telecom and data center networking

Intellectual Property

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes

If yes, state date: 2006-09-25

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

and answer the following: Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Future Adoptions

Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? Do not know at this time

If Yes, the following questions must be answered:

Technical Committee Name and Number:

Other Organization Contact Information:

Contact person:

Contact Email address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

If yes, please explain:

7.4 Additional Explanatory Notes: (Item Number and Explanation)

8.1 Sponsor Information:

Is the scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain:

Submit to NesCom

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