
P802.1DD

Type of Project: New IEEE Standard
Project Request Type: Initiation / New
PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft

1.1 Project Number: P802.1DD
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Resource Allocation Protocol

3.1 Working Group: Higher Layer LAN Protocols Working Group(C/LAN/MAN/802.1 WG)
3.1.1 Contact Information for Working Group Chair:
Name: Glenn Parsons
Email Address: glenn.parsons@ericsson.com
3.1.2 Contact Information for Working Group Vice Chair:
Name: Jessy Rouyer
Email Address: jessy.rouyer@nokia.com
3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LAN/MAN)
3.2.1 Contact Information for Standards Committee Chair:
Name: James Gilb
Email Address: gilb_ieee@tuta.com
3.2.2 Contact Information for Standards Committee Vice Chair:
Name: David Halasz
Email Address: dave.halasz@ieee.org
3.2.3 Contact Information for Standards Representative:
Name: George Zimmerman
Email Address: george@cmephyconsulting.com

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:
Jul 2026
4.3 Projected Completion Date for Submittal to RevCom: Mar 2027

5.1 Approximate number of people expected to be actively involved in the development of this project: 30
5.2 Scope of proposed standard: This standard specifies protocols, procedures, and managed objects for resource allocation in bridged local area networks for dynamic creation and maintenance of data streams. This standard supports control signaling through data paths and/or through separate control paths in support of centralized control.
5.3 Is the completion of this standard contingent upon the completion of another standard? No
5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: Current protocol specifications do not support the scaling required for new network applications and reservation allocation on simultaneously available redundant paths.
5.6 Stakeholders for the Standard: Developers, providers, and users of networking services and equipment for industrial automation and professional audio/video.

6.1 Intellectual Property
6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?
No
6.1.2 Is the Standards Committee aware of possible registration activity related to this project?
Yes
Explanation: The YANG Data Model will be assigned a Uniform Resource Name (URN) based on the IEEE Registration Authority (RA) URN tutorial and IEEE Std 802d.

7.1 Are there other standards or projects with a similar scope? No
7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes: #5.2:

IEEE Std 802.1Q, IEEE Standard for Local and Metropolitan Area Networks - Bridges and Bridged Networks
Existing end station and bridge implementations that currently use Stream Reservation Protocol (SRP) specified in Clause 35 of IEEE Std 802.1Q may need to implement additional or replacement protocols to benefit from the provisions of this standard.

#6.1.2:

While 'YANG' (developed by the Internet Engineering Task Force) appears to be an acronym, its expansion is not meaningful. YANG is a data modeling language for the definition of data sent over network management protocols specified by IETF Request For Comments (RFC) 7950, The YANG 1.1 Data Modeling Language.

IEEE Std 802d, IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture Amendment 1: Allocation of Uniform Resource Name (URN) Values in IEEE 802 Standards; link to the IEEE RA URN tutorial:

<https://standards.ieee.org/wp-content/uploads/import/documents/tutorials/ieeeeurn.pdf>