

P60802

Type of Project: Revision to IEEE Standard 60802-2026

Project Request Type: Initiation / Revision

PAR Request Date:

PAR Approval Date:

PAR Expiration Date:

PAR Status: Draft

Root Project: 60802-2026

1.1 Project Number: P60802

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Project Title: IEC/IEEE International Standard Time-Sensitive Networking Profile for Industrial Automation

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

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3.1.2 Contact Information for Working Group Vice Chair:

Name: Jessy Rouyer

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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

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3.2.2 Contact Information for Standards Committee Vice Chair:

Name: David Halasz

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3.2.3 Contact Information for Standards Representative:

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:

Nov 2029

4.3 Projected Completion Date for Submittal to RevCom: Nov 2030

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 document defines time-sensitive networking profiles for industrial automation. The profiles select features, options, configurations, defaults, protocols, and procedures of bridges, end stations, and LANs to build industrial automation networks. This document also specifies YANG modules defining read-only information available online and offline as a digital data sheet. This document also specifies YANG modules for remote procedure calls and actions to address requirements arising from industrial automation networks.

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: This revision project is needed in order to incorporate approved amendments and corrigenda, to incorporate technical and editorial corrections to existing functionality, and to ensure that consistency is maintained in the consolidated text.

5.6 Stakeholders for the Standard: Developers, providers, vendors, and users of networking services and components for industrial automation equipment. These components may include bridges, end stations, network interface cards, and integrated circuits.

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?

No

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? Yes

7.2.1 Organization: IEC

Technical Committee Name: Industrial networks

Technical Committee Number: SC65C

8.1 Additional Explanatory Notes: #5.2: 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 (IETF Request For Comments (RFC) 7950, The YANG 1.1 Data Modeling Language).

The Remote Procedure Calls (RPCs) provided by the YANG modules of the base standards cited by IEC/IEEE 60802 are not satisfactory for industrial automation use cases. Therefore, the IEC/IEEE 60802 Time-Sensitive Networking Profile for Industrial Automation will specify RPCs for industrial automation.