

## P60802

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**Type of Project:** New IEEE Standard  
**Project Request Type:** Modify / New  
**PAR Request Date:**  
**PAR Approval Date:**  
**PAR Expiration Date:**  
**PAR Status:** Draft  
**Root PAR:** P60802  
**Root PAR Approved on:** 20 Sep 2022

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**1.1 Project Number:** P60802  
**1.2 Type of Document:** Standard  
**1.3 Life Cycle:** Full Use

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**2.1 Project Title:** Time-Sensitive Networking Profile for Industrial Automation

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**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:** Paul Nikolich  
**Email Address:** p.nikolich@ieee.org

**3.2.2 Contact Information for Standards Committee Vice Chair:**

**Name:** James Gilb  
**Email Address:** gilb@ieee.org

**3.2.3 Contact Information for Standards Representative:**

**Name:** James Gilb  
**Email Address:** gilb@ieee.org

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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:**  
May 2023

**4.3 Projected Completion Date for Submittal to RevCom:** May 2024

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 40

**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, and remote procedure calls.

**Change to 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, and remote procedure calls.

**5.3 Is the completion of this standard contingent upon the completion of another standard?** Yes

**Explanation:** IEEE P802.1ASdm: This standard will use hot standby time synchronization being specified by IEEE P802.1ASdm.

IEEE P802.1ASdn: This standard will use the YANG data model being specified by IEEE P802.1ASdn.

IEEE P802.1Qdj: This standard will use the configuration enhancements being specified by IEEE P802.1Qdj.

**5.4 Purpose:** This document will not include a purpose clause.

**5.5 Need for the Project:** IEEE 802 standards address a very wide range of networking scenarios. Users and vendors of interoperable bridged time-sensitive networks for industrial automation need guidelines for the selection and the use of IEEE 802 standards and features in order to be able to deploy converged

networks to simultaneously support operations technology traffic and other traffic.

**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.

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## **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

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**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

**7.2.2 Organization:** IEC

**Technical Committee Name:** Industrial networks

**Technical Committee Number:** SC65C

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**8.1 Additional Explanatory Notes:** #5.2 While 'YANG' (developed by the Internet Engineering Task Force) appears to be an acronym, its expansion 'Yet Another Next Generation' is not meaningful.

#5.3 IEEE P802.1ASdm Draft Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications - Amendment: Hot Standby;

IEEE P802.1ASdn Draft Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications - Amendment: YANG Data Model; IEEE IEEE P802.1Qdj Draft Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks

Amendment: Configuration Enhancements for Time-Sensitive Networking