

## P802.1AS

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**Type of Project:** Revision to IEEE Standard 802.1AS-2025

**Project Request Type:** Initiation / Revision

**PAR Request Date:**

**PAR Approval Date:**

**PAR Expiration Date:**

**PAR Status:** Draft

**Root Project:** 802.1AS-2025

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**1.1 Project Number:** P802.1AS

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Project Title:** Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications

**Change to Title:** ~~IEEE Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications~~

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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

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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

**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:**

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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 2028

**4.3 Projected Completion Date for Submittal to RevCom:** Nov 2029

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 50

**5.2 Scope of proposed standard:** This standard specifies protocols, procedures, and managed objects to support the synchronization requirements of time-sensitive network applications. These applications include audio, video, and time-sensitive control using IEEE 802 Local Area Networks and similar media. Synchronized time is maintained during normal operation and during network reconfiguration following the addition, removal, or failure of network components. This standard includes a profile of IEEE Std 1588™.

**Change to scope of proposed standard:** This standard specifies protocols, procedures, and managed objects ~~used to ensure that~~ support the synchronization requirements ~~are met for~~ of time-sensitive network applications ~~, . These such applications as include~~ audio, video, and time-sensitive control ~~, across using~~ networks, IEEE for 802 ~~example,~~ Local IEEE Area 802 Networks and similar media. This Synchronized ~~includes time the is~~ maintenance of synchronized time maintained during normal operation and during network reconfiguration following the addition, removal, or failure of network components ~~and network reconfiguration . It This specifies standard the includes use a of IEEE 1588™ specifications where applicable in the context profile of IEEE Std 802.1Q 1588™.~~ Synchronization to an externally provided timing signal [e.g., a recognized timing standard such as Coordinated Universal Time (UTC) or International Atomic Time (TAI)] is not part of this standard but is not precluded.

**5.3 Is the completion of this standard contingent upon the completion of another standard?** No

**5.4 Purpose:** This standard enables systems to meet the respective jitter, wander, and time-synchronization requirements for time-sensitive applications, including those that involve multiple streams delivered to multiple end stations. To facilitate the widespread use of packet networks for these applications, synchronization information is one of the components needed at each network element where time-sensitive application data are mapped or demapped or a time-sensitive function is performed.

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**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; to maintain consistency in the consolidated text; and restructure to improve readability and maintainability.

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**5.6 Stakeholders for the Standard:** Developers, manufacturers, distributors, or users of time-sensitive applications, components, and equipment.

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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?** No

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**8.1 Additional Explanatory Notes:** 5.2:

IEEE Std 1588-2019 - IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems