

# Pxxxxx

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**Submitter Email:** [janos.farkas@ericsson.com](mailto:janos.farkas@ericsson.com)

**Type of Project:** New IEEE Standard

**PAR Request Date:** 09-Sept-2018

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, PAR for a New IEEE Standard

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**1.1 Project Number:**

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet Communications

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**3.1 Working Group:** Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

**Contact Information for Working Group Chair**

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**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich

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**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 Sponsor Ballot:** 01/2022

**4.3 Projected Completion Date for Submittal to RevCom**

**Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2022**

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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:** This standard specifies profiles for secure, highly reliable, deterministic latency, automotive in-vehicle IEEE 802.3 Ethernet networks based on IEEE 802.1 Time-Sensitive Networking (TSN) and security standards.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** Yes

In addition to the published IEEE 802.1 standards, it is anticipated that the following standards will be used:

P802.1AS-Rev Draft Standard for Local and Metropolitan Area Networks – Timing and Synchronization for Time-Sensitive Applications  
P802.1Qcr Draft Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: Asynchronous Traffic Shaping

**5.4 Purpose:** This standard provides guidance for designers and implementers of IEEE 802.3 Ethernet networks that support the entire range of in-vehicle applications including those requiring security, high availability and reliability, maintainability, and bounded latency.

**5.5 Need for the Project:** The automotive segment does not have a standards-based profile for IEEE 802.1 Time-Sensitive Networking standards as usage can vary widely based on the networking scenarios. The lack of a profile makes the definition of the automotive manufacturer's requirements and the implementation of those requirements by suppliers more difficult and costly. Thus there is a need for guidelines for the selection and the use of IEEE 802 standards and features in order to be able to deploy secure highly reliable converged networks.

**5.6 Stakeholders for the Standard:**

Developers, providers, automotive manufacturers and suppliers, and users of networking services and components for automotive Ethernet networked equipment. These components may include bridges, end stations, network interface cards, and integrated circuits.

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**Intellectual Property**

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

**6.1.b. Is the Sponsor 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 Joint Development**

**Is it the intent to develop this document jointly with another organization?:** No

**Organization:**

**Technical Committee Name:**

**Technical Committee Number:**

**Contact Name:**

**Phone**

**Email:**

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**8.1 Additional Explanatory Notes:**

5.2: The profile will not make any change to the standards used.