Submitter Email:  
**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: P802.1DP  
### 1.2 Type of Document: Standard  
### 1.3 Life Cycle: Full Use  

#### 2.1 Project Title: Time-Sensitive Networking Profile for Aerospace In-Vehicle Ethernet Communications

### 3.1 Working Group: Higher Layer LAN Protocols Working Group(C/LM/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:** John Messenger  
**Email Address:** j.l.messenger@ieee.org  

### 3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LM)  
#### 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  
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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: Mar 2024  
### 4.3 Projected Completion Date for Submittal to RevCom: Dec 2024  

### 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 profiles for secure, highly reliable, deterministic latency, aerospace in-vehicle bridged IEEE 802.3 Ethernet networks based on IEEE 802.1 Time-Sensitive Networking (TSN) standards and IEEE 802.1 Security standards.  

### 5.3 Is the completion of this standard contingent upon the completion of another standard? No  
### 5.4 Purpose: This standard provides profiles for designers, implementers, integrators, and certification agencies of deterministic IEEE 802.3 Ethernet networks that support the entire range of aerospace in-vehicle applications including those requiring security, high availability and reliability, maintainability, and bounded latency.  
### 5.5 Need for the Project: The aerospace segment does not have a standards-based profile for IEEE 802.1 Time-Sensitive Networking (TSN) standards as usage can vary widely based on the networking scenarios. The lack of a profile makes the definition of the aerospace manufacturer's requirements and the implementation of those requirements by suppliers more difficult and costly. Thus, there is a need for standardization of the selection and use of IEEE 802 standards and features in order to be able to deploy secure highly reliable converged networks, and enable certification as a basis for compliance and design assurance.  
### 5.6 Stakeholders for the Standard: Developers, integrators, aerospace manufacturers and suppliers, test equipment vendors, certification agencies, and users of networking services and components for aerospace Ethernet networked 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: SAE
    Technical Committee Name: Avionics Networks
    Technical Committee Number: AS-1 A2

8.1 Additional Explanatory Notes: 5.2: The profiles will not make any change to the standards used.
  5.2 and 5.4: Support for the 802.3 Medium Access Control (MAC) Service is dependent on it being deterministic.