

CALL FOR PARTICIPATION

IEEE P802.1DP™ – Time-Sensitive Networking for Aerospace Onboard Ethernet Communications

IEEE Standards Association (IEEE SA) invites you to participate in the working group for the IEEE P802.1DP™ Time-Sensitive Networking for Aerospace Onboard Ethernet Communications.

WHY GET INVOLVED

The [IEEE P802.1DP™](#) project has been established to ensure that experts are involved in defining the use of IEEE 802.1 Time-Sensitive Networking (TSN) for aerospace onboard Ethernet communications. The intent is to develop this standard jointly between the IEEE 802.1 Working Group and SAE Avionics Networks AS-1 A2 Committee. The more participation, the better this standard will represent the needs of the entire industry.

Participation can include requirements and/or designs for:

- Deterministic latency
- Redundancy
- Security
- Time synchronization
- Other topics related to determinism and reliable communication

The purpose of the IEEE 802.1DP™ standard is to describe the use of Ethernet bridged networks based on IEEE standards in aerospace onboard networks. IEEE 802.1DP™ standard specifies profiles of IEEE 802.1 Time-Sensitive Networking (TSN) and IEEE 802.1 Security standards for aerospace onboard bridged IEEE 802.3 Ethernet networks.

The aerospace segment does not have profiles of IEEE 802.1 TSN standards. The lack of standardized TSN profiles makes the definition of the aerospace manufacturers' requirements and the implementation of those requirements by suppliers more difficult and costly. Thus, there is a need to standardize the selection and use of IEEE 802.1 and IEEE 802.3 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.

The stakeholders include developers, integrators, aerospace manufacturers and suppliers, test equipment vendors, certification agencies, and users of networking services and components for aerospace.

KEEP YOURSELF INFORMED

The first step is to keep yourself informed by subscribing to the main e-mail list of the IEEE 802.1 Working Group at <http://www.ieee802.org/1/email-pages/>. Also subscribe to

<https://listserv.ieee.org/cgi-bin/wa?A0=STDS-802-1-MINUTES> in order to get messages with detailed information about Working Group meetings.

HOW TO PARTICIPATE

The best way to get involved in the project is to attend face-to-face or [virtual](#) meetings as listed on the [IEEE 802.1 page](#). The next meetings will be [virtual](#): bi-weekly 2-hour electronic meetings from 10:00 am ET on Wednesdays, followed by electronic meetings as part of the electronic IEEE 802 Plenary, March 8-16, 2021. Interested parties are welcome to attend.

If you would like to participate in the [IEEE P802.1DP](#) project, please [e-mail](#) Glenn Parsons, Working Group Chair, János Farkas, Task Group Chair, Stefano Lassini, SAE AS-1 Committee Chair, and/or Abdul Jabbar, SAE AS-1A2 Champion with the following information:

- Your name and email address
- Name of your employer or other affiliation
- Particular areas of interest