

P1722b

Submitter Email: glbechtel@gmail.com

Type of Project: Amendment to IEEE Standard 1722-2016

PAR Request Date: 28-Oct-2019

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

1.1 Project Number: P1722b

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for a Transport Protocol for Time-Sensitive Applications in Bridged Local Area Networks
Amendment: New and Extended Streaming Formats

3.1 Working Group: Audio/Video Bridging Layer2 Transport (C/MS/CP1722)

Contact Information for Working Group Chair

Name: David Olsen

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Microprocessor Standards Committee (C/MS/CP1722)

Contact Information for Sponsor Chair

Name: Ralph Kearfott

Email Address: rbk@lusfiber.net

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2021

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2022

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2.a. Scope of the complete standard: This standard specifies the protocol, data encapsulations, and synchronization procedures used to enable interoperability between time-sensitive audio, video, and control applications using the quality of service capabilities provided by IEEE 802 Time-Sensitive Networking standards.

5.2.b. Scope of the project: This amendment specifies extensions to IEEE Std 1722 to add new formats and extend existing streaming formats to support media types not included in the previous standard. This amendment will also improve support for tracking grandmaster changes, longer presentation time intervals, and clarification of clock stability indicators.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard facilitates interoperability between end stations that transport time-sensitive media across LANs providing time synchronization, latency, and bandwidth services by defining additional packet format protocols, synchronization mechanisms, and diagnostic counters.

5.5 Need for the Project: IEEE Std 1722 has experienced rapid adoption in applications that stream audio/video. There is significant end-user and vendor interest in providing additional media formats that are not currently in the IEEE Std 1722 defined set of supported formats. These new media formats address support for common raw and compressed video formats, redundant audio and improvements to media clock distribution and recovery.

The project enhances/improves distribution of grandmaster clock and timing information.

These additional features and formats are necessary to ensure continued growth of interoperable vendor support for time-sensitive media transport.

5.6 Stakeholders for the Standard: Developers and users of bridged LAN and end-point systems supporting audio/video and other time-sensitive streaming applications.

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

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

8.1 Additional Explanatory Notes: