

P1722

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Type of Project: Revision to IEEE Standard 1722-2011

PAR Request Date: 27-Mar-2014

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for a Revision to an existing IEEE Standard

1.1 Project Number: P1722

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: IEEE Standard for a Transport Protocol for Time Sensitive Applications in a Bridged Local Area Network

Changes in title: IEEE Standard for ~~Layer 2a~~ Transport Protocol for Time Sensitive Applications in a Bridged Local Area Network

3.1 Working Group: Audio/Video Bridging Layer2 Transport (C/MS/C/P1722)

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/C)

Contact Information for Sponsor Chair

Name: p eastman

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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: 01/2016

4.3 Projected Completion Date for Submittal to RevCom: 10/2016

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

5.2 Scope: 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.

Changes in scope: This standard specifies the protocol, data encapsulations, and ~~presentations~~ **synchronization time** procedures used to ~~ensure~~ **enable** interoperability between **time sensitive audio-, video and video-based control end applications stations using that the use quality standard of networkingservice services capabilities** provided by all IEEE 802 ~~networks~~ **Time meeting Sensitive quality of service Networking requirements for time sensitive applications by leveraging the concepts of IEC 61883 standards.**

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.

Changes in purpose: This standard ~~will facilitates~~ **facilitate** interoperability between ~~end~~ **stream transport** time-sensitive ~~audio media and/or video~~ **media** across LANs providing time synchronization, **latency** and ~~latency/bandwidth~~ **bandwidth** services by defining ~~the~~ **additional** packet format protocols, ~~and~~ **synchronization mechanisms and diagnostic counters.**

5.5 Need for the Project: IEEE 1722 - 2011 has experienced rapid adoption in applications that stream audio and video. There is significant end-user and vendor interest in providing additional media formats that are not currently in the IEEE 1722 defined set of supported formats. These new media formats also address limitations related to format changes, channel count and encoder/decoder complexity that are imposed by the current standard. Additional functionality is also needed to provide services that are not currently addressed in IEEE 1722 such as system wide clock distribution and synchronization, and additional diagnostic information.

These additional features and formats are necessary to promote continued vendor adoption and interoperability, among devices that support IEEE 1722.

5.6 Stakeholders for the Standard: The stakeholders are developers and users of bridged LAN and end-point systems supporting time sensitive e.g. audio/video 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 (Item Number and Explanation):