

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: 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 extends IEEE 1722 - 2011 to add extensible transport formats that support new and existing media types. This standard will also specify new synchronization services and diagnostic counters. This standard will maintain backwards compatibility with 1722-2011.

Changes in scope: This standard ~~specifies~~ extends the IEEE protocol, 1722 data-encapsulations, 2011 and to presentation add time extensible procedures transport used formats that ensure support interoperability new between audio- and video-based existing end media stations types. that This use standard networking will services also provided specify by new all synchronization IEEE services 802 and networks diagnostic meeting counters. quality of service This requirements standard for will time sensitive maintain applications backwards by compatibility leveraging with the concepts of IEC 61883 1722-2011.

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 stations that stream transport time-sensitive audio media and/or video across LANs providing time synchronization, latency and latency/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.

Addition of these new media formats has required a restructuring of the the previous content from IEEE Std. 1722-2011 such that a entire revision of the previous standard is needed.

5.6 Stakeholders for the Standard: The stakeholders are developers and users of bridged LAN and end-point systems supporting time sensitive i.e. 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): The IEEE 1722a workgroup has been working on an amendment to IEEE Std. 1722-2011 for several years. As consumer demand has driven the number of supported transport formats higher it has become impossible to maintain the document structure from the original 1722-2011.

While we are making no technical changes to the transports included in 1722-2011 the number of edits required to be documented in an amendment would make both the original document and the new document unreadable.

Therefore it is the opinion of the 1722a workgroup that we change to working under a revision PAR. This would allow the workgroup to produce a new document that replaces 1722-2011 with a document that is more easily readable and better suited to future enhancement.