

P1733

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 13-Oct-2009

PAR Approval Date: 09-Dec-2009

PAR Expiration Date: 31-Dec-2011

Status: Modification to a Previously Approved PAR

Root PAR: P1733 **Approved on:** 05-Dec-2007

Project Record: 1733

1.1 Project Number: P1733

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Layer 3 Transport Protocol for Time Sensitive Applications in Local Area Networks

3.1 Working Group: Layer 3 Transport Protocol for A/V App (C/MS/P1733)

Contact Information for Working Group Chair

Name: Suman Sharma

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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)

Contact Information for Sponsor Chair

Name: James Davis

Email Address: bob@scsi.com

Phone: 408-353-2706/408-857-1273 Cell

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: 12/2008

4.3 Projected Completion Date for Submittal to RevCom: 12/2009

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

5.2 Scope: This standard specifies the protocol, data encapsulations, connection management and presentation time procedures used to ensure interoperability between audio and video based end stations that use standard networking services provided by all IEEE 802 networks meeting Quality of Service requirements for time-sensitive applications by leveraging the Real-time Transport Protocol (RTP) family of protocols and family of IEEE 802.1 Audio/Video Bridging (AVB) protocols.

Old Scope: This standard specifies the protocol, data encapsulations, connection management and presentation time procedures used to ensure interoperability between audio and video based end stations that use standard networking services provided by all IEEE 802 networks meeting Quality of Service requirements for time-sensitive applications by leveraging the Real-time Transport Protocol (RTP) family of protocols and IEEE 802.1 Audio/Video Bridging (AVB) protocols.

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

5.4 Purpose: This standard will facilitate interoperability between stations that stream time-sensitive audio and/or video across bridged and routed LANs providing time synchronization and latency/bandwidth services by defining the packet format and stream setup, control, synchronization and teardown protocols by leveraging Real-time Transport Protocol (RTP) family of protocols and IEEE 802.1 AVB protocols.

5.5 Need for the Project: Increasingly, entertainment media is digitally transported. Streaming audio/video and interactive applications over bridged and routed LANs need to have comparable real-time performance with legacy analog distribution. There is significant end-user and vendor interest in defining a simple yet common method for handling real-time audio/video suitable for consumer electronics, professional A/V applications, etc. RTP is one of the most common protocols used to stream real-time media over network, but it lacks various time sensitive and QoS features. IEEE 802.1 AVB TG is extending the LAN to provide these services for time sensitive applications. This standard will allow 802.1 QoS services to be used by RTP.

5.6 Stakeholders for the Standard: The stakeholders are developers and users of 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 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: No

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): Two changes are made:

1. Section 5.3 is changed to "No", as this project is not dependent on any other standards.
2. Section 6.1.b is changed to "No", as this project doesn't need RAC to assign any registration number.