**PAR Request Date:** 08 March 2006  
**PAR Approval Date:**  
**PAR Signature Page on File:** No  
**Type of Project:** New IEEE Standard  

**Status:** Unapproved PAR, PAR for a New IEEE Standard  

**1.1 Project No.:** P802.1AS  
**1.2 Type of Document:** Standard  
**1.3 Life Cycle:** Full  
**1.4 In Ballot:** N  

**2.1 Title**  
Standard for Local and Metropolitan Area Networks – Timing and Synchronization for Time-Sensitive Applications in Bridged Local Area Networks  

**2.1 Amd/Cor Title**  

**3.1 Working Group Name**  
Higher Layer LAN Protocols Working Group  

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**3.3 Joint Sponsor**  

**4.1 Type of Ballot:** Individual  
**4.2 Expected Date of Submission for Initial Sponsor Ballot:** 2009-12-00  
**4.3 Projected Completion Date for Submittal to RevCom:** 2010-07-00  

**Explanation for Modified PAR that completion date is being extended past the original four-year life of the PAR:**  

**5.1 Approximate number of people expected to work on this project:** 60
5.2 **Scope:** This standard specifies the protocol and procedures used to ensure that the synchronization requirements are met for time sensitive applications, such as audio and video, across Bridged and Virtual Bridged Local Area Networks consisting of LAN media where the transmission delays are fixed and symmetrical; for example, IEEE 802.3 full duplex links. This includes the maintenance of synchronized time during normal operation and following addition, removal, or failure of network components and network reconfiguration. It specifies the use of IEEE 1588 specifications where applicable in the context of IEEE Stds 802.1D and 802.1Q. Synchronization to an externally provided timing signal (e.g., a recognized timing standard such as UTC or TAI) is not part of this standard but is not precluded.

5.3 **Is the completion of this document contingent upon the completion of another document?** N

5.4 **Purpose:** This standard enables stations attached to bridged LANs to meet the respective jitter, wander, and time synchronization requirements for time-sensitive applications.

5.5 **Why Needed:** The use of current IEEE 802 technologies for time sensitive applications, such as high quality audio/video streaming, does not assure that the applications can present data with acceptable jitter, wander, and deviation in time. This includes applications that involve multiple streams delivered to multiple endpoints. To facilitate the widespread use of bridged LANs for these applications, this standard includes the use of IEEE 1588 specifications where applicable in the context of IEEE Stds 802.1D and 802.1Q. Synchronization to an externally provided timing signal (e.g., a recognized timing standard such as UTC or TAI) is not part of this standard but is not precluded.

5.6 **Stakeholders for the Standard:** The stakeholders are any developer of AV equipment.

6.1.a. **Intellectual Property?** Yes  **Presented Date:** 2006-03-06

6.1.b. **Copyright?** No

6.1.c. **Reg. Activity?** No

7.1 **Are there other standards or projects with a similar scope?** Yes

Project Explanation:
The project specifies the use of IEEE 1588 specifications where applicable in the context of IEEE Stds 802.1D and 802.1Q.

Sponsor Organization:
Project/Standard Number:
Project/Standard Date: 0000-00-00
Project/Standard Title:

7.2 **Future Adoptions?** No

Technical Committee Name and Number:
Contact person:
Contact person Email Address:

7.3 **HSE?** No

7.4 **Additional Explanatory Notes:**

8.1 **Sponsor Information:**
Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

Explanation: