

P1722.1

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Type of Project: Revision to IEEE Standard 1722.1-2013

PAR Request Date: 13-Oct-2015

PAR Approval Date: 05-Dec-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 1722.1-2013

1.1 Project Number: P1722.1

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Device Discovery, Connection Management, and Control Protocol for Time-Sensitive Networking Systems

Changes in title: ~~IEEE~~ Standard for Device Discovery, Connection Management, and Control Protocol for ~~IEEE~~Time-Sensitive 1722(TM)Networking BasedSystemsDevices

3.1 Working Group: IEEE Standard Device Discovery, Connection Management and Control Protocol for P1722 based devices (C/MS/C/P1722.1)

Contact Information for Working Group Chair

Name: Ashley Butterworth

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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: Ralph Kearfott

Email Address: rbk@louisiana.edu

Phone: 337-993-1827

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: 01/2019

4.3 Projected Completion Date for Submittal to RevCom: 10/2019

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, device discovery, connection management, and device control procedures used to facilitate interoperability between systems that use IEEE 802 time sensitive networking standards.

Changes in scope: This standard specifies the protocol, device discovery, connection management, and device control procedures used to facilitate interoperability between ~~audiosystems and video based End Stations~~ that use IEEE ~~1722~~802 based~~time Stream~~sensitive ~~onnetworking IEEE 802(R) based networks~~standards.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes

If yes please explain: This standard will rely upon:

IEEE Standard for a Transport Protocol for Time-Sensitive Applications in Bridged Local Area Networks (P1722-REV)

5.4 Purpose: This standard will facilitate interoperability between systems that stream time-sensitive media and data across local area networks which provide time synchronization and latency/bandwidth services. This standard defines the device discovery, connection management, stream setup, control, and teardown protocols.

Changes in purpose: This standard will facilitate interoperability between ~~Endsystems Stations~~ that stream time-sensitive media and data across local area networks ~~providing~~which provide time synchronization and latency/bandwidth services. This standard defines the device discovery, connection management, ~~Stream~~stream setup, control, and teardown protocols.

5.5 Need for the Project: IEEE 1722.1-2013 provides an interoperable way for audio and video systems to be discovered, connected and controlled. As this industry has adopted IEEE 1722.1, new features have been identified that will continue and improve future adoption. These new features will maintain interoperability with existing systems. In addition new applications using IEEE 802.1 standards have emerged that have requirements which can be addressed within the scope of this standard.

A goal is to support configuring parameters of existing and new standards such as:

- * generalized Precision Time Protocol (IEEE 802.1AS-2011 and IEEE P802.1AS-REV)
- * Egress shapers (IEEE 802.1Q-2014 Clause 34, IEEE P802.1Qbv and IEEE P802.1Qbu)
- * Parameterized SRP (IEEE P802.1Qcc)
- * Redundant networks (IEEE P802.1CB and IEEE P802.1AS-REV)
- * Ingress Policing (IEEE P802.1Qci)

Only standards that are complete within this standard's schedule will be included.

5.6 Stakeholders for the Standard: Developers and users of time sensitive LAN systems supporting audio/video and control 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):