

# P1482.1

---

**Submitter Email:** jdietz@ieee.org

**Type of Project:** Revision to IEEE Standard 1482.1-1999

**PAR Request Date:** 29-Oct-2010

**PAR Approval Date:** 02-Feb-2011

**PAR Expiration Date:** 31-Dec-2015

**Status:** PAR for a Revision to an existing IEEE Standard

**Root Project:** 1482.1-1999

---

**1.1 Project Number:** P1482.1

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

---

**2.1 Title:** Standard for Rail Transit Vehicle Event Recorders

**Old Title:** IEEE Standard for Rail Transit Vehicle Event Recorders

---

**3.1 Working Group:** Monitoring and Diagnostics Working Group (VT/RTSC/WG3)

**Contact Information for Working Group Chair**

**Name:** David Gregson

**Email Address:** dgregson@ieee.org

**Phone:** 250 658 8868

**Contact Information for Working Group Vice-Chair**

None

---

**3.2 Sponsoring Society and Committee:** IEEE Vehicular Technology Society/Rail Transportation Standards Committee (VT/RTSC)

**Contact Information for Sponsor Chair**

**Name:** James Dietz

**Email Address:** jdietz@ieee.org

**Phone:** 215-641-8876

**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:** 10/2012

**4.3 Projected Completion Date for Submittal to RevCom:** 10/2013

---

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 15

**5.2 Scope:** This standard covers on-board devices/systems, with crashworthy memory, that record data to support accident/incident analysis for rail transit vehicles. The requirements of this standard are limited to event recorder functions and interfaces, exclude the data transmission method(s), and are independent of the hardware and/or software employed for other vehicle systems. Functions, parameters, signals, systems, and subsystems that shall be captured are identified. Diagnostic features and self-test options are described.

**Old Scope:** This standard covers on-board devices/systems with crashworthy memory which record data to support accidental incident analysis for rail transit vehicles. this standard is limited to event recorder functions and interfaces, excludes the data transmission methods and is independent of the hardware and/or software employed for other vehicle systems. this standard identifies functions, parameters, signals, systems and subsystems which shall be captured. Diagnostic features or self-test options are described

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

**5.4 Purpose:** Each order of new vehicles or overhaul of existing rail transit vehicles requires engineering effort by all parties to determine which signals to capture, how often to sample and how long to preserve the information. In addition, there can be varying requirements for crashworthiness. This standard identifies a common set of requirements for event recorders for transit systems, including some correlation to Federal requirements for railroads. Users benefit from a simplified process of integrating diagnostic information from multiple subsystem suppliers and

**Old Purpose:** There is currently no defined, independent standard defining event recorders for rail transit vehicles. Each order of new vehicles or overhaul of old rail transit vehicles requires engineering effort by all parties to determine which signals to capture, how often to sample and how long to preserve the information, requiring a learning curve in this area for every project. Users of this standard will include those who specify, purchase, design and build rail transit vehicles and their subsystems. They will all benefit from a simplified process of

from having a common method of crashworthiness certification. integrating diagnostic information from multiple subsystem suppliers.

**5.5 Need for the Project:** This standard is widely used. It just needs an update.

**5.6 Stakeholders for the Standard:** Rail transit agencies, suppliers, and consultants.

---

#### **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):**