

# P1451.4a

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**Submitter Email:** kang.lee@nist.gov

**Type of Project:** Amendment to IEEE Standard 1451.4-2004

**PAR Request Date:** 04-Dec-2009

**PAR Approval Date:** 23-Jan-2010

**PAR Expiration Date:** 31-Dec-2014

**Status:** PAR for an Amendment to an existing IEEE Standard 1451.4-2004

**Project Record:** 1451.4

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**1.1 Project Number:** P1451.4a

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** IEEE Standard for A Smart Transducer Interface for Sensors and Actuators--Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats - Amendment

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**3.1 Working Group:** Mixed-mode Communication Working Group (IM/ST/P1451.4)

**Contact Information for Working Group Chair**

**Name:** Torben Licht

**Email Address:** trlicht@bksv.com

**Phone:** +4545800500

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

None

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**3.2 Sponsoring Society and Committee:** IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology (IM/ST)

**Contact Information for Sponsor Chair**

**Name:** Kang Lee

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**Phone:** 301-977-2167

**Contact Information for Standards Representative**

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 02/2011

**4.3 Projected Completion Date for Submittal to RevCom:** 12/2011

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

**5.2 Scope:** The scope of the proposed changes include: 1) the correction of errors, both editorial and technical of the existing standard, 2) the creation of new parameters in the transducer electronic data sheets (TEDS), TEDS templates, and hooks that can make it easier for other industrial users to apply and use this standard, 3) the provision for interface with the IEEE 1451 standard to enable users to access IEEE 1451.4 transducers via a network, and 4) consideration of provision for global transducer identification.

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

**5.4 Purpose:** The amendments reflect the need of industry and correct errors in the existing standard.

**5.5 Need for the Project:** Transducer manufacturers are producing devices applying this standard, the amendments will help to improve the readability and eliminate the errors and confusion in implementig the standard. It will also make it easier for other industrial users, such as automobile and aviation to adopt and use this standard.

**5.6 Stakeholders for the Standard:** Transducer manufacturers and vendors, system integrators, and users.

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## Intellectual Property

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** Yes

**If yes please explain:** The existing standard has already addressed the copyright issue.

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** Yes  
**If yes please explain:** The existing standard has already addressed the registration activities.

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**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?:** Yes

**Organization:** ISO/IEC JTC1

**Technical Committee Name:** Mobile Item Identification & Management

**Technical Committee Number:** SC 31/WG6

**Contact Name:** Craig K. Harmon

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**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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):**