P1451.4a

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

1.1 Project Number: P1451.4a
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

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

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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Contact Information for Standards Representative
Name: Kang Lee
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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

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.

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.

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
Phone: 319/364-0212
Email: craig.harmon@qed.org
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):