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16 March 2006

Kang Lee
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Re: P1451.4-2004/Cor 1 - Standard for A Smart Transducer Interface for Sensors and Actuators—
Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats -
Corrigendum 1

Dear Kang:

I am pleased to inform you that on 16 March 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2010. A copy of the file can be found on our website at http://standards.ieee.org/board/nes/projects/1451-4-2004_Cor-1.pdf.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 14 June 2006.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
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CC: trlicht@bksv.com

PAR FORM

PAR Status: Corrigendum of Standard

PAR Approval Date: 16 March 2006

PAR Signature Page on File: Yes

1. Assigned Project Number: P1451.4-2004/Cor 1

2. Sponsor Date of Request: 2005-11-10

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for A Smart Transducer Interface for Sensors and Actuators— Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats - Corrigendum 1

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: Corrigendum to Std 1451.4-2004

7. Working Group Information:

Name of Working Group: Mixed-mode Communication Working Group

Approximate Number of Expected Working Group Members:15

8. Contact information for Working Group Chair:

Name of Working Group Chair: Torben Licht

Telephone: +45-208-00564 **FAX:** +45-458-01405

Email: trlicht@bksv.com

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:

Telephone: **FAX:**

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: IEEE Instrumentation and Measurement Society TC9-Sensor Technology

Name of Sponsoring Committee Chair: Kang Lee

Telephone: 301-975-6604 **FAX:** 301-990-3851

Email: kang.lee@nist.gov

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: **FAX:**

Email:

Name of Co-Sponsoring Society and Committee:

Name of Co-Sponsoring Committee Chair:

Telephone: **FAX:**

Email:

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: **FAX:**

Email:

11. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: April 2006

12. Projected Completion Date for Submittal to RevCom: September 2006

Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

This standard defines the protocol and interface that allows analog transducers to communicate digital information with an IEEE 1451 object. It also defines the format of the transducer TEDS (Transducer Electronic Data Sheet). The transducer TEDS is based on the IEEE 1451.2™ TEDS. The standard does not specify the transducer design, signal conditioning, or the specific use of the TEDS.

Is the completion of this document contingent upon the completion of another document? No

14. Purpose of Proposed Project:

An independent and openly defined standard for MMI (mixed-mode interface) and TEDS serves the following purposes:
 — Provide interoperability, which enables plug-and-play capability — Simplify the implementation of mixed-mode smart transducer systems — Accelerate the emergence and acceptance of the MMI and TEDS.

15. Reason for the Proposed Project:

During implementations of IEEE 1451.4™-2004, errors were discovered in the standard's specifications, in particular those in and related to the transducer templates and the tables describing these. A name was also missing in the participants list. A corrigendum is needed to correct the errors. The stakeholders are sensor producers, sensor users and system integrators.

16. Intellectual Property:

- a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-08-24
- b. **Is the sponsor aware of copyright permissions needed for this project?** No
- c. **Is the sponsor aware of trademarks that apply to this project?** No
- d. **Is the sponsor aware of possible registration activity related to this project?** No

17. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

18. Is there potential for this document (in part or in whole) to be adopted by another national , regional or international organization? Do not know at this time

If yes, the following questions must be answered:

Organization Name?

Technical

Committee

International

Contact

Information?

19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety? No

If yes, please explain:

20. Sponsor Information

- a. **Is the scope of this project within the approved/scope/definition of the Sponsor's Charter?** Yes

If no, please explain:

- b.

The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

21. Additional Explanatory Notes: (Item Number and Explanation)

Item #13 - The title of IEEE 1451.2 is as follows:

Standard for a Smart Transducer Interface for Sensors and Actuators - Transducer to Microprocessor Communication
Protocols and Transducer Electronic Data Sheet (TEDS) Formats