

**IEEE 1451.4 Standard Working Group
Telephone Meeting, October 24, 2002
Meeting Minutes, issued October 25, 2002, approved 11-14-02**

Chair: T. Licht

Secretary : P. Hufnagel

Attendance:

Fernando Gen-Kuong, Endevco, Fernando@endevco.com

Ed Herceg, Macro Sensors, eeh@macrosensors.com

Paul Hufnagel, Kistler, Paul.Hufnagel@kistler.com

Kang Lee, NIST, Kang.Lee@nist.gov

Torben Licht, B&K, Trlicht@bksv.com

Carlos Lopez-Reyna, Scitefair, Clopez@scitefair.com

John Mark, Kistler, John.Mark@kistler.com

David Potter, National Instruments, David.Potter@ni.com

1) Minutes of Previous Meeting

- a) Minutes of the 10-17-02 meeting approved. Secretary will post to approved minutes website.

2) Face-to-Face Meeting:

- a) Meeting to be held at National Instruments, Austin, TX, for Oct 28-31, 2002.
- b) Agenda has been edited on-line.
- c) The outcome of the meeting is to be a ballot-ready Draft.**
- d) Discussions on UTID (template number), UUID (transducer number) and Clause 9 are planned for the first day. Language in Clause 9 needs to be compatible with that of the other Clauses.
- e) Any remaining work on the TDL must be finished.
- f) Two groups should be formed to scrutinize the Draft.
- g) K.Lee would like an indication of the quantity of 1451.4 Transducers foreseen by manufacturers.

3) Manufacturer Codes: T. Licht, M. Dillon

- a) K. Lee has forwarded the petition to IEEE, with a request for a response by 10-24-02.

4) Clause 9 Discussion: C. Lopez

- a) The newest revision of Clause 9 is included in Draft D0.981. Clause 9 is very similar to the 1451.3 T-Block Clause.
- b) Some of the terminology in Clause 9 does not conform with the rest of the Draft.
- c) "Trigger source" and "trigger generator" must be defined, and a single term used.
- d) "Signal Conditioner" has been removed from Draft 0.983, Fig 7, *Dot 4 Transducer Block Associations*, because the definition of signal conditioners is outside the scope of the Standard.
- e) **Should the Transparent Protocol be annexed to the Draft, as either informative, or normative? Add the Transparent Protocol as an agenda item, for discussion at the FTF Meeting.**
- f) A new normative appendix has been added to IEEE Std. 1451.1. New properties are defined to allow associations to be formed. An API is shown connected directly to the T-Block. Std 1451.1 groups transducers by the mechanism of transduction. A 1451.4 Transducer Channel needs to be configurable to feed into 1451.1. Four aspects fully identify a 1451.4 MMX, allowing it to be described in Std 1451.1. The 1451.1 Public Transducer definition is a Std 1451.1 Object made up of physical objects mapped to be compatible with Std 1451.1. Std 1451.1 can use only data blocks which are sufficiently defined. Associations of multiple 1451.4 MMX channels on a single MMI must be defined,

and transducers mapped by characteristics. A transducer channel in 1451.4 is accessible only through its own T-Block.

- g) IEEE Std 1451.1 defines a correction engine to condition raw data.
- h) **Action: T. Licht will include on the agenda for the Face-to-Face Meeting, the addition of Virtual TEDS into the Draft.**

5) Clause 7: C. Jones

- a) No discussion. G. Foote comments to be discussed at the FTF meeting.

6) New Draft, v0.981: T. Licht

- a) Draft will be discussed in detail at next week's FTF meeting.

http://www.1451dot4.com/presentations/102402/p1451_4_0.982.doc

- b) K. Lee comments: Basic TEDS appears in only one node per transducer. A transducer may contain several nodes, and if this is the case, one node will contain a node list. A node may refer to only one transducer (MMX). A Mixed Mode Transducer (MMX) must, by definition, contain a TEDS.

7) New Business:

- a) None this week.

8) Next Meeting:

- a) Next Meeting: Mon, Oct 28, 2002, National Instruments, Austin, Tx.
- b) Adjourn: 3:26 pm EDT.