

**IEEE 1451.4 Standard Working Group
Face-to-Face Meeting, following National Manufacturing Week,
Chicago, March 22, 2002
Meeting Minutes, issued 03-27-02, approved 04-11-02**

Chair: T. Licht

Secretary: P. Hufnagel

Attendance:

Jorgen Baekke, Js@baekke.com

Thurston Brooks, Aeptec/3ETI, Tbrooks@3eti.com

Mike Dillon, Modal Shop, Mdillon@modalshop.com

Garritt Foote, National Instruments, Garritt.Foote@ni.com

Ed Herceg, Macro Sensors, eeh@macrosensors.com

Charles Jones, Edwards AFB, Charles.Jones@edwards.af.mil

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

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

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

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

Jay Zemel, Scitefair, zemel@ee.upenn.edu

1) Topics for Discussion:

- a) Definition of UGID: done.
- b) Definition of Basic TEDS: done.
- c) Definition of XDL: done, but needs review.
- d) TEDS flow chart from Sec 6: needs to be discussed at this meeting.
- e) Template Validation: needs to be finalized by a date to be set.
- f) TDL Syntax: to be completed today, for review.
- g) Changes in Basic TEDS definition: add to Sections as appropriate, and review.
- h) Sec 7, Grammar and Syntax: to be reviewed.
- i) Sec 8, Polarity of Class 2: done, to be reviewed.
- j) Interim Draft (0.97): discontinued.
- k) Sec 5: done, to be reviewed.
- l) Sec 6: discuss today, and prepare for review.
- m) Sec 7: discuss today, and prepare for review.
- n) Sec 9: discuss today and prepare for review.
- o) Annex A: Properties.
- p) Annex B: iButton.
- q) Annex C: TMEX. Question on the need to include this in the Standard. P. Hufnagel and D. Smiczek are the group chairs for this subgroup.
- r) Annex D: Family Codes.
- s) Annex E: Templates; IEEE Template definition. Submissions of sample templates to G. Foote or D. Potter are requested.
- t) Annex F: TDL Grammar. C Jones, chair.
- u) Annex G: Application process for Manufacturer Codes. K. Lee, chair.
- v) Annex H: Format for the enumeration of manufacturer model numbers.
- w) Definition of repositories for items to be administered by the IEEE. **Action: K. Lee, J. Zemel, G. Foote and M. Dillon to write a proposal on coordination of the generation of templates.** Templates must be defined. Responsibility for administration needs to be established. How will compliance be determined? Can templates be distributed online? How will new templates be approved or rejected, and by whom? Volunteers sought to make a committee. How will manufacturer codes be administered? The Dot 2 Working Group has established a procedure for extensions to the TEDS.
- x) Discussion on the need or propriety of including the developmental versions of the TEDS, referred to previously as 0.9X, in the Standard. IEEE does not agree with maintaining these as part of the Standard. As background information, they may be carried in an Annex. This may be of assistance to earlier users of the Standard, who have implemented designs based on the earlier development of the Standard.

- 2) Review of Section 6:
 - a) The TEDS Object is composed of the binary TEDS data and a Template.
 - b) **Action: T. Licht to clarify the bootstrap process shown in the Flowchart, Figure A, and add a tree to define the operation of the node list structure.**
 - c) Hardware details of the physical memory are needed before the details of the template can be mapped.
 - d) **Action: Revise the Discovery Flowchart to reflect the detailed discussion. J. Baekke, T. Licht, C. Jones, G. Foote and C. Lopez, to collaborate.**
 - e) Combine sections into a single flowchart.
 - f) The "Reserved" box refers to "S" values which should not occur.

- 3) Review of Section 7:
 - a) Discussion on the need for adding the IEEE definition of a 4-byte, single precision, floating point number, to the Standard.
 - b) Motion and second to add this definition. On the question: B&K, no; Scitefair, yes; NIST, yes; National Inst, yes; MacroSensors, yes; Modal Shop, no; Edwards AFB, yes. **Motion is carried and the definition of a 4-byte, single precision, floating point number will be included in the Standard.**
 - c) **Action: J. Baekke to write an explanation of p, r, and rp, in the second table of Para 7.4.6. Also, clarify the first byte in Para 7.4.7 and include an example of a property command.**
 - d) It is necessary to define the property command so that a string unit in a property command can be expressed in SI units.
 - e) Para 7.4.8 needs an example and clarification. No bits are read, nor in TEDS, for this property command.
 - f) Sub-property and extended functionality need to be discussed further.
 - g) Problems are encountered when simultaneous properties are contained on the same node list.
 - h) Use cases need to define the organization of properties in existing templates, to avoid problems in property aggregation.

- 4) Next Meeting:
 - a) Thursday, Mar 28, 2002, Telcon.