

From: Kimball, Daniel (Contractor)
Sent: Friday, May 23, 2003 12:33 PM
To: Harmon, Craig
Cc: Spittle, Deborah
Subject: RE: RE: Revision of SD 3 (New Work on Multi-Standard Reader)

Deb/Craig

The vote for this item was $7 + 0 + 0 + 2 = 9$

Not voting were Paxar and Customs

Affirmative: QED, DOD, High Tech Aid, Intermec, SAVI, Postal Service, Northrop Grumman
No negatives or abstentions

Dan

From: Harmon, Craig
Sent: Wednesday, May 21, 2003 1:39 PM
To: Vago, Monica
Cc: Spittle, Deborah
Subject: Revision of SD 3 (New Work on Multi-Standard Reader)

<<File: NCITS_T6_N2003_009_SD3msr.doc>>

Monica,

Today, INCITS T6 voted unanimously to include within its scope of work the development of a Multi-Standard Reader and asked me to submit the attached SD3 regarding this item.

Best regards!

Craig

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Craig K. Harmon
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T6 PROJECT PROPOSAL FOR REVISION TO NCITS 256

1 Source of the Proposed Project

1.1 **Title:** New Project – Multi-Standard Reader (“MSR”) (as defined in NCITS T6/N2001-004 – 8 May 2001)

1.2 **Date Submitted:**

1.3 **Proposer:** INCITS T6 Technical Committee

2 Process Description for the Proposed Project

2.1 **Project Type:** R (Revision)

2.2 **Type of Document:** Standard

2.3 **Definition of Concepts and Special Terms:** None

2.4 **Expected Relationship with Approved Reference Models, Frameworks, Architectures, etc:**

It has been long recognized that a suite of technical standards were required within the U.S. and internationally, so as to enable RF tag application standards. Insofar as there are different capabilities of different frequencies, this first standard was to enable multiple RF tag applications through the adoption of new air interfaces.

Insofar as the user community may face multiple protocols and multiple frequencies that must be read from a common reader, the next standard will define the communications from a “network capable node - NCN” to the interrogator and from the interrogator to an air interface.

This standard primarily applies to INCITS 256 air interfaces, but will also apply to ISO/IEC 18000 as it matures, provided it does not conflict with backward compatibility to INCITS 256. The committee has decided not to attempt compatibility with INCITS 256 Part 3.3, INCITS 256 Part 5.2, and INCITS 256 Part 5.3.

2.5 **Recommended INCITS Development Technical Committee:** INCITS T6

2.6 **Anticipated Frequency and Duration of Meetings:** Meetings will be held every two to three months. Meeting will normally last two days each.

2.7 **Target Date for Initial Public Review (Milestone 4):** June 2004

2.8 **Estimated useful life of the document:** Five years or longer

3 Business Case for Developing the Proposed Standard or Technical Report

3.1 **Description:** T6 was established to develop RFID interface protocol standards for electronic transponders and interrogators in business and military logistics applications. Application areas affected by the standards are: transportation, warehousing, maintenance, energy, and industrial production.

There are two primary uses of the technology:

- (1) Asset identification and tracking; e.g., locating items in warehouses, containers in open storage areas, tracking of returnable

containers, tracking of hazardous materials, tracking of cable reels, and items moving through business processes (shipping, receiving, transportation, warehouse management); and
(2) Storage and retrieval of data; e.g., notice of delivery, invoice lists, warehousing receipts, storage of maintenance records, and related transactions.

3.2 Existing Practices and the Need for a Standard: The RFID industry is evolving and the NCITS 256:2001 standard is a revision of the first general technical standard for RFID. This initial standard provided for an Applications Programmers Interface (API) and several implementations at 2.45 GHz and one at 433 MHz. Further, to permit multiple protocols and multiple frequencies to be read from a common reader, this standard will define the communications from a “network capable node - NCN” to the interrogator and from the interrogator to an air interface.

3.3 Implementation Impact of the Proposed Standard:

3.3.1 Development Costs:

Logistical Cost: Zero -- facilities provided by member organizations at no cost to T6.

Meeting attendance: Ten meetings maximum to be attended by 15 members, exclusive of attendee travel costs. The intent is to complete this standard in as short a time, if possible.

Work between meetings: Individual corporate submissions will vary in cost depending on complexity of the implementing documentation plus the legal expense in preparing a corporate ANSI patent position. Estimated work on “multiple protocols and multiple frequencies to be read from a common reader” will require six man-months of effort by various corporate members.

Editorial Work: Will require two man months to prepare and consolidate changes for submission of dpANS INCITS xxx 200x.

3.3.2 Impact on Existing or Potential Markets: Development of “multiple protocols and multiple frequencies to be read from a common reader” will expand the numbers and variety of application that can be achieved. Adding “multiple protocols and multiple frequencies to be read from a common reader” will improve the flexibility and performance of RFID standards.

3.3.3 Cost and Methods of Conformity Assessment: No official validation or certification procedure has been established by T6. System or application implementers may assert compliance. Future work may include conformity to this standard.

3.3.4 Return on Investment: We have no basis on which to form such an assessment.

3.4 Legal Considerations:

3.4.1 Patent Assertions: None that we are aware of. Calls for patents will be made through T6. All members that indicate that they hold relevant patents have agreed to conform to ANSI patent policy.

3.4.2 Dissemination of the Standard: T6 is unaware of any IPR assertions that will hinder this distribution.

4 Related Standards Activity

InterNational Committee for Information Technology Standards (NCITS) Technical Committee T6

Title: Revised Draft T6 Project Proposal for a New INCITS T6 Project (INCITS SD 3)

Date: 20 May 2003

Number: NCITS T6/N2003-0xx

- 4.1 Existing Standards:** ANS NCITS 256:1999, ANS NCITS 256:2001, ISO/IEC 15961, ISO/IEC 15962, IEEE 1451
- 4.2 Related Standards Activity:** SC 31/WG 4/SG 3, SC 31/WG 4/SG 1, IEEE 1451
- 4.3 Recommendation for Coordination Liaison:** None
- 4.4 Recommendations for Close Liaison:** None