

InterNational Committee for Information Technology Standards
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DOC: M1/05-0537

Date: October 6, 2005

Project Proposal – Keystroke Dynamics Format for Data Interchange

Project Proposal

Keystroke Dynamics Format for Data Interchange

1. Source of the Proposed Project

1.1 Title

"Keystroke Dynamics Format for Data Interchange"

1.2 Date Submitted

October 6, 2005

1.3 Proposer(s)

INCITS Technical Committee M1, Biometrics

2. Process Description for the Proposed Project

2.1 Project Type (Development or Revision)

D – This is a standard development project.

2.2 Type of Document

This project is expected to result in an ANSI/INCITS standard.

2.3 Definitions of Concepts and Special Terms

The following terms are involved in this project:

1. *Keystroke dynamics* – the time-based pattern of typing on a keyboard, keypad, or other input device, that is uniquely characteristic of an individual.

2.4 Expected Relationship with Approved Reference Models, Frameworks, Architectures, etc.

None.

2.5 Recommended INCITS Development Technical Committee

INCITS Technical Committee M1, Biometrics

2.6 Anticipated Frequency and Duration of Meetings

It is anticipated that this project would require a quarterly one-day meeting.

2.7 Target Date for Initial Public Review (Milestone 4)

The estimated time for initial public review is January 2006.

2.8 Estimated Useful Life of the Amended Standard

There is no known limit to the useful life of this amendment.

3. Business Case for Developing the Proposed Standard or Technical Report

3.1 Description

The proposed standard will define data formats for exchange of keystroke dynamics biometric information. The data record will contain the elements required to characterize the behavioral pattern of a particular end user's entry of a password or other phrase. This is anticipated to include a sequence of time-stamped input events, consisting of input code, input down time, input up time, and other information. A header structure will be provided that is comparable to header structures in existing INCITS biometric data-format standards. The keystroke dynamics data record will be compatible with ANSI/INCITS 358-2002, the BioAPI Version 1.1 specification.

3.2 Existing Practice and the Need for a Standard

There is no existing standard to define the interchange of keystroke dynamics data. This standard is being proposed in order to promote interoperability and prevent wide deployment of proprietary solutions.

3.3 Implementation Impacts of the Proposed Standard

3.3.1 Development Costs

Development costs for this project are expected to be low, and to be covered by the participating organizations. Project meetings will normally take place in conjunction with regularly scheduled M1 Task Group meetings or by conference call. Technical editor labor is expected to be less than two labor-months, and will be performed by one of the sponsored participants.

3.3.2 Impact on Existing or Potential Markets

Existing markets for keystroke dynamics technology should experience added impetus from the benefits of interoperability. It is anticipated that new markets will open as a result of this standard.

3.3.3 Costs and Methods for Conformity Assessment

Conformity assessment has not yet been defined. It is possible that the standard will define some testing concepts, and allow vendors and customers to jointly define

testing to their own requirements. It is also possible that a companion standard for conformity assessment may be proposed in the future, as has been done for other data interchange format standards developed within INCITS M1.

3.3.4 Return on Investment

There is no known data on which to make an estimate.

3.4 Legal Considerations

3.4.1 Patent Assertions

Calls will be made to identify assertions of patent rights in accordance with the relevant INCITS and ANSI policies and procedures. INCITS M1 is not aware of any existing, relevant patent claims.

3.4.2 Dissemination of the Standard or Technical Report

Drafts of the amended standard will be disseminated electronically. Dissemination of the final standard will be restricted as the document becomes the property of INCITS. INCITS M1 is not aware of any IP issues that will inhibit this process.

4. Related Standards Activities

4.1 Existing Standards

There are no known existing standards.

4.2 Related Standards Activity

The proposed standard will be compatible with INCITS 358-2002, BioAPI specification, and INCITS 398-2005, Common Biometric Exchange Formats Framework.

4.3 Recommendations for Close Liaison

None

5. Units of Measurement used in the Standard

Indicate units of measurement used in the Standard:

- International Systems of Units (SI)
- Inch/Pound
- Both
- Other
- Not Measurement Sensitive