

M1/04-0287

Note: This draft project proposal is being submitted to M1 by Cross Match Technologies.

Draft Project Proposal –Application Profile for Commercial Biometric Physical Access Control

1. Source of Proposed Project

1.1 Title: Application Profile for Commercial Biometric Physical Access Control

1.2 Date Submitted: 5/6/2004

1.3 Proposer: INCITS M1

2. Process Description for the Proposed Project

2.1 Project Type

D – This is a standards development project

2.2 Type of Document

This project is a standards development project.

2.3 Definitions of Concepts and Special Terms

These concepts and terms will be developed before the dpANS is submitted for further processing

2.4 Expected relationships with Approved Reference Models, Architectures

None

2.5 Recommended INCITS Development Technical Committee

M1 with assignment to M1.4

2.6 Anticipated Frequency and Duration of Meetings

It is estimated that the this project will require 2 hours approximately quarterly

2.7 Target Date for Initial Public Review

It is estimated that the draft document would be ready for submission to INCITS for Milestone 4 Processing in May 2005

2.8 Estimated Useful Life of Standard

There is no known limitation on the useful life of this proposed standard

3. Business Case for Developing the Proposed Standard

3.1 Description

The proposed standard is intended to support the deployment of standards based interoperable biometric physical access control systems for commercial purposes. The standard's goals include capturing the needs of vendors, integrators, customers, and users for these systems.

The proposed standard would provide guidance as to the use of applicable standards when enrolling, and when attempting access. The standard is expected to address the needs of regular users (employees, contractors, occupants, etc) as well as visitors.

It is expected that the requirements in this profile would in large part be in harmony with the applicable portions of the transportation workers profile (INCITS Project 1566-D), and would only differ where commercial requirements dictate.

3.2 Existing Practice and the Need for a Standard

Biometric Access Control Devices are typically proprietary. Enrollment and verification are driven as a complete solution, and customers must accept the risk associated with that. The costs of enrollment must be paid each time a customer wishes to use a different proprietary scheme. Given that there is some standardization in the industry, it makes sense to give some guidance on how to provide for lower cost, higher quality installations. Specifically, it would address how to use the Security Industry Association (SIA) Wiegand standard, security standards, the biometric interchange format standards and the biometric interface standards to develop physical access control systems with the benefits of standardized biometrics.

3.3 Implementation Impacts of the Proposed Standard

3.3.1 Development Costs

Technical editor labor is expected to total approximately one quarter of a staff year.

3.3.2 Impact on Existing or Potential Markets

The proposed standard will increase the visibility and encourage the adoption of biometrics standards within the physical access control market. This is expected to decrease costs and increase quality for physical access control systems.

3.3.3 Costs and Methods for Conformity Assessment

There is no data at this time on which to base an estimate

3.3.4 Return on Investment

There is no data at this time on which to base an estimate

3.4 Legal Considerations

3.4.1 Patent Assertions

There are no known patents relevant to this standard

3.4.2 Dissemination of the Standards

The drafts of this standard will be distributed electronically. There may be distribution constraints as this document reaches different stages of development and processing within INCITS.

4. Related Standards Activities

4.1 Existing Standards

- OSI/IEC FDIS 9594-8 Information technology – Open Systems Interconnection: The Directory: Public-key and attribute certificate frameworks
- NISTIR 6529-2001 CBEFF
- ANSI/NIST 358-2002 BioAPI
- ANSI/NIST-ITL I-2000 Standard Data Format for the Interchange of Fingerprint, Facial, and Scar Mark and Tattoo (SMT Information)
- Security Industry Association (SIA) Wiegand Standard

4.2 Related Standards Activity

- NISTIR 6529-A CBEFF
- ISO/IEC SC37 19785.2 CBEFF
- ISO/IEC SC 37 19784.2 BioAPI
- ISO/IEC SC27 WD 19792 – A Framework for security evaluation and testing of biometric technology

4.3 Recommendation for Close Liaison

- INCITS B10
- INCITS T4
- BioAPI Consortium
- SIA (Security Industry Association)

5. Units of Measurement in the Standard

If units from a physical dimensioning system are needed for specifying the requirements of this standard, the goal would be to use the International System of Units (SI)