

INCITS M1-03-0534

November 4, 2003

Source: M1.3

Title: Resolution of Ballot Comments INCITS M1-03-0444 (Biometric Profile for Transportation Workers)

Reference: M1030419 – 9th Draft Profile
M1030420 – M1 Letter Ballot
M1030444 – M1 Letter Ballot Results
M1030525 – Preliminary Resolution of Ballot Comments

For Discussion at M1 Meetings in November

Source	Clause	Comment	Resolution	Notes
Bioscrypt Inc	6.3	The distinction between a reference template and operational template is not as clear as it was in earlier versions of the specification. Specifically, section 6.3 seems to indicate that the biometric check is done by a central 1:N comparison, as opposed to a local 1:1 comparison. It was our understanding that the 1:N reference template was used a) to perform a background check, and b) to approve an employee for enrollment on local biometric devices to create operational templates for 1:1 verification. We believe that this issue should be clarified before the document is forwarded for public review.	Accepted	
	A3.1.3	Also, the "reserved byte" field of Table A.3.1.3, item 21, should be mandatory for all columns except the Profile Status Identification column	Accepted	
Business Solutions		Due to the large body of works still in development on the Biometric Templates, Conformance Testing and Procedures and the Cross Jurisdictional_ and Societal Aspects this work, which	Rejected	Templates are stable and almost complete. The other two areas are relatively incomplete and should not slow

		needs to reference the aforementioned bodies of work is premature at this time for public review		the project.
Crossmatch Technologies		<p>I am voting no because of one small but important issue regarding the proposed architecture. The profile specifies that the application would provide the GUID to the biometric system.</p> <p>To me, this is backwards and represents a security problem. The biometric system should, upon enrollment, provide a unique id code. This allows for the protection of privacy from the perspective of the biometric system. If the system has access to the application IDs, then basically the system could gain access to other information with that id.</p>	Rejected	Requires comprehensive solution with proposed text.
NIST	General	<p>We understand that because of the pending international schedule of meetings it was not possible to complete this document (filling in all necessary information within Annex A, for example). Indeed, the editor indicated this at the last M1 meeting, before it was agreed to send the document for ballot. Nevertheless, before this draft standard is sent for Initial Public Review, the document needs to include a complete Annex A – Requirements List (i.e., insertion of any missing feature list specified in the latest versions of the documents listed in Section 3 and the missing content in some of the profile status for “identification and verification” columns).</p>	Accepted	
	Annex A	Remove references to the RBAC specification in Annex A and B	Accepted	
	Annex B			

	3	<p>Add the following ANSI/INCITS document numbers for:</p> <p>Finger minutiae: INCITS 378-200x Finger pattern: INCITS 377-200x Iris image: INCITS 379-200x Finger image: INCITS 381-200x</p> <p>Replace NISTIR 6529-2001 by NISTIR 6529-A New title: Common Biometric Exchange Formats Framework (CBEFF)</p> <p>To better align Section 3 with Annex A, remove references to: (a) ANSI-X9.84-2001</p> <p>(b) Biometric performance testing and reporting standard</p>	Accepted	
	10	<p>The reference to ANSI/X9 X9.84 and ISO/IEC 15408:1999 within this context are reasonable. It is a recommendation, however. Therefore, it is recommended that another section (bibliography) be added to the document with the reference to the ANSI/X9 X9.84: 2003 standard and ISO/IEC 15408:1999.</p>	Accepted	
	Annex A	<p>Add to the "Bibliography" section ISO/IEC 9646-7/Cor1: 1997</p> <p>Changes in Table A.3.3</p> <p>Insert between item 7 and 8: Biometric Subtype</p> <p>Replace the word "record" in 7, 8, 9 by "Biometric"</p> <p>Insert "Biometric" before</p>	Accepted	

		<p>“Creation Date” in item 10</p> <p>Insert new item: “Validity Period” after Biometric Creation Date</p> <p>Insert a field called “Index” after Validity Period</p> <p>Insert next a “Challenge/Response”, a “Payload” field and a “Subheader/Basic Structure Count”</p> <p>Replace “BSMB” in Format Owner and Format Type by “BDB”</p> <p>Insert a “Product Identifier (PID)” item</p> <p>Change name from “Biometric Specific Memory Block” to “Biometric Data Block (BDB)”</p> <p>Insert “M” status in the identification and verification columns for all items other than “Signature” that should be Optional.</p> <p>Reflect the same item name changes/new items in Table B.3.8.</p>		
Recognition Systems		<p>Please include a placeholder to add the Hand Geometry Interchange Format being developed by M1.1 when available. Hand Geometry is currently deployed in several airports, and is an important technology to include in the Transportation Worker profile.</p>	Rejected	<p>There are ways to add new requirements to INCITS standards through the amendment and addendum process. This can be added at that point when the template is complete.</p>
Saflink Corp.	Annex A	<p>Updated BioAPI table (section A.3.2) see attached Appendix A.</p>	Accepted	
	3	<p>Consider adding the following standards and specifications, which are referenced in the document) to the references section: ISO/IEC 7816, NISTIR 6887 (GSC-IS), and ISO 9646-7.</p>	Accepted	Bibliography

	5.3	Consider adding “applet loading”; extending “biometric encoding” to include “and storage”	Accepted	
	5.5	Consider adding “policy management” (i.e., control over authentication policies, perhaps based on alert level)	Accepted	
	7	Regarding biometric capture and processing, note that when using BioAPI, the result of a capture operation is both a raw sample (optional) and an intermediate form (required). The result of a process operation is a fully processed sample. It is possible that an “interchange format” would be of either the intermediate (e.g., iris image) or processed (e.g., minutiae format) form. Also, the result of an enrollment operation (as a result of either the create template or enrollment operations) is a processed template, whose purpose and format may or may not be the same as that resulting from a process operation. (Clarification only.)	Noted	Text was left intentionally general
	7	Section 7, Decision. For a 1:1 verification operation, BioAPI returns both a Boolean result and a score (clarification only).	Noted	Current text adequately covers this area of the architecture
US Department of Homeland Security – TSA	General	The document has omissions which are sufficiently significant and require completion prior to public review, and additional corrections need to be made:	Noted	See Below
	General	Complete each of the tables in Annex A and Annex B	Accepted	All are now Complete
	General	Align the referenced clauses in each of the formats in Annex A and Annex B with the base standards, or remove the reference since it will be difficult to keep the references current. They will almost always be out of synch with the base	Partially accepted	Continue with alignment

		standards.		
	General	Provide a definition of Biometric Quality. How will that be reflected in the profile standard? For each biometric type, how is “biometric quality” specified or performed?	Noted	There is an activity in M1 to address this issue and when consensus is reached, this can be added as an addendum to the standard
	Annex A	In each of the tables for each of the formats in Annex A, identify those requirements for which an optional value may exist, and specify the value required for this profile. Specify the required value or range of values for each item in each application (enrollment, identification, and verification) for each format.	Noted	Template editors will be requested to provide specific recommendations and identify where such values can be used
	Annex B	In Annex B it would be useful for the manufacturer to specify the value or range of values for each item in the list rather than to state [yes] or [no] compliance. See above.	Noted	Template editors will be requested to provide specific recommendations and identify where such values can be used
	General	There should be consistent font size between clauses 1-6 and 7-10.	Accepted	
	Annex A	In Annex A, clause A.1, not all of the status notations are used, so the list should include only those that are used. In Annex A, clause A.1, the last paragraph references the requirements list (RL) and states that they are in Annex A, while they are really in Annex B. Remove A.3.4 as it is not applicable	Accepted	