



BIOMETRICS
TASK FORCE

Biometrics Task Force
Biometric Standards Activities Update
May – August 2007
Version 0.1

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1. Summary

This document contains a consolidated view of the U.S. Army Biometrics Task Force (BTF) activities related to the development and adoption of biometric standards. It summarizes the current state of the biometric standards sponsored by the BTF, lists recent InterNational Committee for Information Technology Standards (INCITS) M1 letter ballots and draft standards under public review, describes BTF technical contributions to INCITS M1 and the Joint Technical Committee 1/Subcommittee 37 (JTC 1/SC 37) submitted during the past several weeks, and lists a number of standing calls for contributions and other documents available for review and comment that are of specific interest to the DoD.

This document will be updated on a regular basis as the information contained herein changes frequently. The document is intended for distribution within the DoD Biometric Standards Working Group (BSWG). All inquiries regarding this document and requests for additional information should be submitted to its editors.

2. Accomplishments

Biometric Standards Sponsored by the BTF

The following two tables contain a summary, detailed status, and a recent timeline of the national and international biometric standards sponsored by the U.S. Army Biometrics Task Force (BTF) and for which the BTF provides editorship and/or substantial technical contributions.

Status Summary

Project/Standard	Sponsors	Status	Note
INCITS 429: Conformance Testing Methodology for ANSI INCITS 358-2002, BioAPI Specification	NIST, BTF	Publishing	None
ISO/IEC 24709-1: Conformance Testing Methodology for BioAPI – Part 1: Methods and Procedures	BTF	Published	Publicly available from the INCITS website
ISO/IEC 24709-2: Conformance Testing Methodology for BioAPI – Part 2: Test Assertions for Biometric Service Providers	BTF	Published	Publicly available from the INCITS website
INCITS 423.4: Conformance Testing Methodology for INCITS 381, Finger Image Data Interchange Format	BTF	Publishing	None
INCITS 421: American National Standard for Information Technology – Biometric Profile – Interoperability and Data Interchange DoD Implementations (formerly INCITS Project 1676-D)	BTF	Published	Publicly available from the INCITS website
ISO/IEC 29109-1: Conformance Testing Methodology for Biometric Data Interchange Records – Part 1: Generalized Conformance Testing Methodology	BTF	Committee Draft (CD)	BTF is a co-editor of this standard

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Detailed Status and Timeline

Sponsored Standard Status Timeline	Action Items	References
INCITS 429: Conformance Testing Methodology for ANSI INCITS 358-2002, BioAPI Specification August 07: This standard is being published.	None	M1/06-1065 – Draft 8, 11 Dec 06
ISO/IEC 24709-1: Conformance Testing Methodology for BioAPI – Part 1: Methods and Procedures Feb 07: Published.	None	INCITS Online http://www.techstreet.com/incitsgate.tmpl
ISO/IEC 24709-2: Conformance Testing Methodology for BioAPI – Part 2: Test Assertions for Biometric Service Providers Feb 07: Published.	None	INCITS Online http://www.techstreet.com/incitsgate.tmpl
INCITS 423.4: Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards – Part 4: Conformance Testing Methodology for INCITS 381, Finger Image Data Interchange Format Aug 07: This standard is being published.	None	M1/07-0178 – Editor’s proposed response to PR comments M1/07-0235 – M1 editor’s proposed disposition to queries
INCITS 421: American National Standard for Information Technology – Biometric Profile – Interoperability and Data Interchange DoD Implementations (formerly INCITS Project 1676-D) Jan 07: Published.	None	INCITS Online http://www.techstreet.com/incitsgate.tmpl
ISO/IEC 29109-1: Conformance Testing Methodology for Biometric Data Interchange Records – Part 1: Generalized Conformance Testing Methodology Aug 07: CD text posted for ballot.	BTF – continue to provide editorship BTF – participate in the CD ballot	SC 37 N2203 – text of CD text

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Recent BTF Technical Contributions

The following table lists BTF technical contributions on biometric standards development projects. These contributions, prepared by the Standards Team with government oversight, contain technical content and editorial comments. BTF often coordinates the development of technical contributions with interagency partners from the BSWG including DHS and NIST.

Technical Contribution	Document	Date
Provided further input and review regarding security standards in national standard profiling use of biometrics in point-of-sale applications	M1/07-0182 M1/07-0370	13 Jun 07
Joint DHS/BTF Technical Contribution on CBEFF Biometric Data Quality field	M1/07/0316	4 May 07
Other technical contributions in the form of comments on draft standards were submitted as part of BTF responses to letter ballot (LB) and public review (PR) initiated by INCITS	See next section	See next section

3. Current Issues

Recent Letter Ballots

The following table lists the status of recent M1 LBs circulated to member organizations. As a voting member, the BTF has an obligation to vote on these ballots. All LBs listed in the table have been circulated to the BSWG members for review and comment. The BTF consolidates BSWG member comments, in coordination with government personnel, before submitting to M1.

LB Subject	Due Date/ Status	References	Proposed Vote
Forwarding the revised draft of “Project proposal – Conformance testing of biometric performance tests” to INCITS for PR	19 Sep 07	M1/07-0453 M1/07-0364 M1/07-0405	No, w/ comments
Forwarding the revised draft of “Project 1564-D: Revision to INCITS 378-2004 – Finger Minutiae Format for Data Interchange” to INCITS for PR	24 Aug 07	M1/07-0282 M1/07-0404	Yes, w/ comments
Forwarding the revised draft of “INCITS 385:2004 Revision 1 – Face Recognition Format for Data Interchange” to INCITS for PR	24 Aug 07	M1/07-0403 M1/07-0128	No, w/ comments
Forwarding the revised draft of “Project 1821-D: Speaker Biometrics Format for Data Interchange” to INCITS for PR	24 Aug 07	M1/07-0124 M1/07-0402	No, w/ comments
Forwarding the revised draft of “INCITS 423.3 Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards – Part 3: Conformance testing for Finger Pattern to INCITS for PR	7 Sep 07	M1/07-0441 M1/07-0131	No, w/ comments

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Standards in Public Review

The following table lists the status of M1 draft standards currently in the PR stage. Based on availability of resources, the BTF selectively reviews some of the standards in coordination with other U.S. government organizations, including NIST and DHS, and submits resulting comments to INCITS. BSWG members are notified when a standard becomes available for PR and are encouraged to review and comment on the standard.

Standard	References	Due Date
INCITS 420: Biometric Profile – Interoperability and Data Interchange – Point-of-Sale Biometrics-Based Verification and Identification	M1/07-0182	3 Sept 07
ISO/IEC 19794-7:2007 Biometric Data Interchange Formats – Part 7: Sign/Signature Series Data	FDIS N1919	3 Sept 07
ISO/IEC 19794-10:2007 Biometric Data Interchange Formats – Part 10: Hand Geometry Silhouette Data	FDIS N1920	3 Sept 07
INCITS 423.2: Conformance Testing Methodology for INCITS 378-2004, Finger Minutiae Format for Data Interchange Format Standards – Part 2	M1/07-0130	3 Sept 07
INCITS 377: Finger Pattern Data Interchange Format (Revision of INCITS 377:2004)	M1/07-0127	3 Sept 07
INCITS 439: Fusion Information Format for Data Interchange	M1/07-0291	3 Sept 07
INCITS 442: Biometric Identity Assurance Services (BIAS)	M1/07-0360	17 Sept 07

4. Upcoming Issues and Events

Recent and Upcoming Standards Body Meetings

Standards Body	Date and Location of Meeting
OASIS (Organization for the Advancement of Structured Information Standards) – Biometric Identity Assurance Services (BIAS) TC	15 Aug, 19 Sep, 24 Oct, 28 Nov (monthly teleconference)
Ad Hoc Group on Biometrics in E-Authentication (AHGBEA)	Completed. Study Report available, Reference doc.# M1/07-0185rev
TG/M1 Teleconference – U.S. positions for possible FCD BRMs	4 Sep 07
INCITS M1 Plenary and Task Groups	24-27 Sep 07, West Lafayette, Ind. – Host: Purdue University 17-21 Dec 07, Falls Church, VA – Host: Noblis
JTC 1/SC 37 Working Groups	7-12 Jan 08, Tel-Aviv, Israel
SC 37 WG2 Special Group on ACBio (Information	Completed.

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Technology) – Security Techniques – Authentication Context for Biometrics	
Special Group to Prepare and Coordinate SC 37 Responses and Input to SC 27	7 & 14 Sep (teleconference)
ANSI/NIST XML and Mobile ID Workshop	18-19 Sep 07

Interagency and Outside Coordination

Agency or Department	Date or Frequency of Meetings
National Science and Technology Council (NSTC) and the National Counter Terrorism Center (NCTC): Standards and Conformance Assessment (SCA) Working Group (WG)	Communication and coordination occurs via e-mail
DoD IT Standards Registry (DISR), Information Assurance (IA) Security, Information Assurance, Cryptology, and Biometrics (SIAC) Technical Working Group (TWG)	Quarterly – 4 Sep 07
DoD Biometric Data Sharing Community of Interest (BDS COI), Enterprise Integrated Biometrics Data Dictionary (EIBDD)	Bi-weekly – Fridays 10:30 – 12:00pm Next meeting 31 Aug 07
DoD Joint Biometrics Operation Coordination Board (JBOCB) & Joint Biometrics Technical Coordination Board (JBTCB)	Monthly – Next JBOCB 17 October 07 Next JBTCB 18 October 07
PEO-EIS Biometric Enterprise Interoperability WIPT	Monthly – Next 18 September 07
PEO-EIS sponsored System Requirements and Design Review Meetings	NGEA 1.0 Critical Design Review 5-6 Jun 07 Business Rules WIPT 8-9 Aug 07 Family of Systems Preliminary Design Review 8 May 07 30 July 07 (unable to participate)
Navy Identity Dominance System (IDS) Capabilities Development Document (CDD) Comment Adjudication Meeting	Ad-Hoc – 3 Aug 07
Department of Homeland Security (DHS) Interoperability Integrated Project Team (IDENT/IAFIS)	Weekly (work on iDSM complete; work on IOC pending)
DHS US-VISIT Unique Identity Technical Working Group	Bi-weekly – 23 Aug 07 & 6 Sep 07 at 2:00 p.m.
DHS Biometric Coordinating Group	Bi-monthly – 2 nd Tuesday, afternoon
DHS Strategy and Policy Team	Bi-weekly – Tuesdays 10am

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Calls for Comments and Other Documents of Interest

The following table lists recent documents posted to the INCITS M1 and JTC 1/SC 37 document registers. These documents are of interest to the BTF, and the BTF plans to review or comment on them if necessary, depending on the availability of time and resources. Review of these documents will help establish the BTF position at the upcoming M1 Task Group and Plenary meetings. If any technical contributions are developed in relation to these documents, they will be circulated to BSWG members for their review, comment, and consent.

Document	Due Date	TC/TG	Comments
M1/07-0408	7 Sep 07	M1.3	Call for Contributions toward Finger Image Revision Standard
M1/07-0409rev M1/07-0409	7 Sep 07	M1.3	Call for Contribution toward Iris Image Revision
M1/07-0410	7 Sep 07	M1.3	Call for Contributions toward Face Conformance Test Standard
M1/07-0411rev M1/07-0411	7 Sep 07	M1.3	Call for Contributions toward Iris Conformance Test Standard
M1/07-0413	7 Sep 07	M1.3	Call for Contributions toward Biometric Quality Sample Standard
M1/07-0414	7 Sep 07	M1.3	Call for Contributions toward Withdrawal of INCITS-396 Hand Geometry Standard
M1/07-0415	7 Sep 07	M1.3	Call for Contributions toward Iris Polar Boundary Clarification
M1/07-0416	7 Sep 07	M1.3	Call for Contributions toward Multi-Biometric Quality Encoding in CBEFF
M1/07-0417	7 Sep 07	M1.3	Call for Contributions toward adoption of 19794-8
M1/07-0418	7 Sep 07	M1.3	Call for Contributions toward adoption of 19794-5 amd 1
M1/07-0419	7 Sep 07	M1.3	Call for Contributions toward withdrawal of INCITS project 423.10 Hand Geometry Conformance Test Standard
M1/07-0420	7 Sep 07	M1.3	Call for Contribution toward Maintenance of Biometric Interchange Data Format Standards
M1/07-0427 SC37N2164	7 Sep 07	M1.3	Call for Comments toward Imminent FDAM ballot on 19794-5 amendment 1
M1/07-0431 SC37N2149	7 Sep 07	M1.3	Call for Contribution toward U.S. NB Comments on 19794-13
M1/07-0432 SC37N2241 SC37N2232 SC37N2230 SC37N2225 SC37N2203	7 Sep 07	M1.3	Call for comments toward U.S. NB comments on 29109-x
M1/07-0433 SC37N2252	7 Sep 07	M1.3	Call for Comments toward U.S. NB Comments on 19794-14
M1/07-0434 SC37N2213	7 Sep 07	M1/M1.4	Call for Review and Comment on SC 37 N 2213 Text of ISO/IEC CD 24713-3, Biometric Profiles for Interoperability and Data Interchange Part 3: Biometric Based Verification and Identification of Seafarers

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Document	Due Date	TC/TG	Comments
M1/07-0435 SC37N2249	7 Sep 07	M1.3	Call for Comments toward U.S. NB Comments on 19794-2-amd 1
M1/07-0436 SC37N2251	7 Sep 07	M1.3	Call for Comments toward U.S. NB Comments on 19794-11
M1/07-0437 SC37N2202 SC37N2211 SC37N2216	7 Sep 07	M1.3	Call for Comments toward U.S. NB Comments on 29794-x
M1/07-0438 SC37N2254 SC37N2249 SC37N2237 SC37N2211 SCN2113rev SC37N2238 SC37N2215 SC37N2228 SC37N2226	7 Sep 07	M1.3	Call for Comments toward U.S. NB Comments toward Revision of 19794-x
M1/07-0439 SC37N2220	7 Sep 07	M1.3	Call for Comments toward U.S. NB Position for PDAM of 19794-5-amd2
M1/07-0440 SC37N2220 SC37N2253 SC37N2218	7 Sep 07	M1.3	Call for Comments toward U.S. NB Position on Tech Corrigenda for 19794
M1/07-0331	7 Sep 07	M1.5	ANSI Technical Report – Information Technology – Biometric Performance Testing and Reporting – Part 7: Framework for Testing Methodologies for Specific Modalities
M1/07-0357	7 Sep 07	M1.2	NIST contribution on Conformance Testing Methodology for CBEFF data structures
M1/07-0425 SC37N2028	10 Sep 07	M1.2	Call for comments in anticipation of ballot 19784-1/FDAM 1, Biometric Application Programming Interface – Part 1: BioAPI Specification – Amendment 1: BioGUI Specification
M1/07-0426	10 Sep 07	M1.2	Call for comments in anticipation of ballot FDIS 19785-3, Common Biometric Exchange Formats Framework – Part 3: Patron Format Specifications
M1/07-0449 SC37N2222 SC37N2223	10 Sep 07	M1.2	Call for comments on SC 37 joint NP/CD ballot of Tenprint Capture Using BioAPI
M1/07-0457 SC37N2247	10 Sep 07	M1.2	Call for comments on ISO/IEC 19784 BioAPI Part 1: BioAPI specification, amendment 3: Support for interchange of certificates and security assertions, and other security aspects
M1/07-0458	10 Sep 07	M1.2	Call for comments on ISO/IEC WD2 19785-4, CBEFF Part 4, Security block format specifications
M1/07-0460 SC37N2260	10 Sep 07	M1.2	Call for comments on ISO/IEC WD2 24709-4 2nd Working Draft for 24709-4, BioAPI Conformance Testing – Part 4: Assertions for Biometric Applications

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Document	Due Date	TC/TG	Comments
M1/07-0461 SC37N2233	10 Sep 07	M1.2	Call for Contributions on 19784-3, BioAPI Lite/Issues List
M1/07-0463 SC37N2243	10 Sep 07	M1.2	Call for comments and contributions on ISO/IEC WD 19784-4, BioAPI Sensor function provider interface
M1/07-0393 M1/07-0444	11 Sep 07	M1.5	Call for contributions 29102-1: Machine-Readable Test Data for Biometric Testing and Reporting – Part 1 Test Reports
M1/07-0394	11 Sep 07	M1.5	Call for contributions 29102-2: Machine-Readable Test Data for Biometric Testing and Reporting – Part 2 Biometric System Test Status
M1/07-0395	11 Sep 07	M1.5	Call for contributions 29102-3: Machine-Readable Test Data for Biometric Testing and Reporting – Part 3: Test Input Data Specification
M1/07-0396 M1/07-0443	11 Sep 07	M1.5	Call for contributions NWI for Match on Card Testing; Proposed International NWI for Performance Testing and Reporting Match on Card
M1/07-0397 SC37N2246	11 Sep 07	M1.5	Call for comments 19795-6 Testing Methodologies for Operational Testing
M1/07-0398 SC37N2212	11 Sep 07	M1.5	Call for comments 19795-5 2 nd CD Scenario Evaluation of Biometric Access Control Systems
M1/07-0451 SC37N2231	17 Sep 07	M1/M1.4	Call for review and comment on Revision of Standing Document 11 (SD 11), Part 1 Harmonization
M1/07-0462 SC37N2236	25 Sep 07	M1.2	Call for comments or nominations in response to the Resignation of Matthew Young as co-editor of 19784-1:amd 3, 24708-1:amd 1, and 19785-4
M1/07-0454	5 Oct 07	M1.6	Call for Comments to WD 24779 – Pictograms, Icons and Symbols for use with Biometric Systems – Closes 5 Oct 07
M1/07-0459	5 Oct 07	M1.6	Call for Comments to WD 24714-2 – Jurisdictional and Societal Considerations for Commercial Applications – Part 2

Other BTF Activities

Activities	Status	Dates	Notes
Development of FIQM Methodology and Toolset	Development of the algorithm, toolset, and documentation is complete. Based on feedback from the FIQM users and possible large-scale testing of the toolset, will consider updates/enhancements.	Completed.	The FIQM algorithm appeared in the Journal of Forensic Identification, 4-10 May 06.

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Development of FaceQM Methodology and Toolset	Development of the initial version (toolset prototype) is complete. Development of an enhanced algorithm is complete. Development of the final version of the toolset is ongoing.	Estimated release date: 4Q 07	BTF Standards Team performed an initial quality analysis of a distribution of facial images from the DoD ABIS database to identify requirements for future enhancements.
Distribution of FIQM and Prototype FaceQM	Briefed DHS Biometric Coordination Group for Standards and the JBTCB. Biometric Automated Toolset (BAT) requested tools for evaluation.	Ongoing	POC: Benji Hutchinson
Biometric Identification Cluster Group (hosted by Noblis, Falls Church, Va.) – Dr. Bob Yen shall present “A New Approach for Measuring Facial Image Quality”	These seminars are re-occurring and hosted by Noblis.	18 Oct 07	POC: Dr. Bob Yen
Monitor publications and advancements within SC 37 and M1 regarding quality measurement methodology	Ongoing	Ongoing	POC: Dr. Bob Yen
DoD EBTS Version 2.0	BTF Internal Draft Complete. Next step is distribution for review within BSWG and JBTCB.	Estimated release date: 4Q 07	POC: Mr. Dale Hapeman
Biometric Collection, Transmission, and Storage Standards Technical Reference	Made publicly available on the BTF website	23 Feb 07	Should discuss demand for next revision
Conference of Institute of Electrical Electronics Engineers (IEEE) on Biometrics: Theory, Applications and Systems (BTAS '07)	BTF Standards Team will participate in seminars, develop an understanding of biometric theories presented, and submit a trip report to BTF leadership.	27-29 Sep 07	POC: Dr. Bob Yen
BTF Standards Status Update and BTF Standards Activities Update – These two documents were once one. Now they shall be published as two separate documents.	May-Aug 07 versions Published.	Ongoing	Co-editors: Mr. Gregory Zektser & Mr. Benji Hutchinson

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BTF Standards Team Activities POCs

The following tables list BTF activities and the personnel assigned to each, along with the corresponding contact information.

Activities and Points of Contact

Activity	Standards Team POC
<u>Standards Bodies Participation and Standards Development</u>	
INCITS M1 – Technical Committee on Biometrics (voting member, membership issues)	Mr. Arun Vemury
INCITS M1 – Technical Committee on Biometrics (LBs, PRs, other voting issues and positions)	Mr. Gregory Zektser
INCITS M1.2 – TG on Biometric Technical Interfaces (voting member)	Mr. Dale Hapeman
INCITS M1.3 – TG on Biometric Data Formats (voting member)	Mr. Gregory Zektser
INCITS M1.4 – TG on Biometric Application Profiles (voting member)	Mr. Dale Hapeman
INCITS M1.5 – TG on Biometric Performance Testing (voting member)	Mr. Gregory Zektser
INCITS M1.6 – TG on Cross Jurisdictional and Societal Issues (voting member)	Mr. Benji Hutchinson
OASIS (Organization for the Advancement of Structured Information Standards) – Biometric Identity Assurance Services (BIAS) Technical Committee (TC)	Mr. Dale Hapeman
ISO/IEC JTC 1/SC 37 – WG2 on Biometric Technical Interfaces (member of U.S. experts delegation)	Mr. Gregory Zektser
ISO/IEC JTC 1/SC 37 – WG3 on Biometric Data Formats (member of U.S. experts delegation)	Mr. Gregory Zektser
NIST Revision of ANSI/NIST ITL-1 2000 (voting member, chair of CBEFF WG)	Mr. Dale Hapeman
INCITS M1 AHGBEA	Mr. Dale Hapeman
Development of DoD-sponsored standards at INCITS M1 and JTC 1/SC 37	Mr. Gregory Zektser
EBTS Configuration Management	Mr. Gregory Zektser
EBTS Development	Mr. Dale Hapeman
U.S. Expert Delegation to ISO/IEC JTC 1/SC 37	Mr. Gregory Zektser Mr. Dale Hapeman
JTC 1/SC 37 WG3 SG on Conformance Issues Related to Data Interchange Formats (CIRDIF)	Mr. Gregory Zektser
JTC 1/SC 37 WG3 SG on Common Data Format Headers	Mr. Gregory Zektser

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Activity	Standards Team POC
<u>DoD and USG Standards Coordination</u>	
NSTC Subcommittee on Biometrics – Standards and Conformance ICP (Chaired by BTF Director)	Mr. Arun Vemury
DoD BSWG (Chair)	Mr. Arun Vemury
DoD BSWG (Secretary)	Mr. Benji Hutchinson
DISR IA TWG	Mr. Benji Hutchinson Mr. Dale Hapeman
DHS Biometric Coordinating Group	Mr. Arun Vemury
DHS Strategy and Policy Team	Mr. Benji Hutchinson
IDENT/IAFIS Interoperability IPT	Mr. Arun Vemury
<u>DoD Standards Support</u>	
Standards Support to DoD ABIS	Mr. Dale Hapeman
Standards Support to DoD Data Sharing COI	Mr. Dale Hapeman Mr. Arun Vemury Mr. Benji Hutchinson
Standards Support to Requirements WIPT	Mr. Benji Hutchinson
Standards Support to Architecture WIPT	Mr. Arun Vemury
<u>Tools Development & Support</u>	
BioAPI Conformance Testing Suite	Mr. Arun Vemury
FIQM Tool	Dr. Bob Yen
FaceQM Tool	Dr. Bob Yen

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Name	Telephone Number	E-mail
Mr. Arun Vemury	703-984-0435	arun.vemury@hqda.army.mil vemury_arun@bah.com
Dr. Bob Yen	703-984-0434	yen_robert@bah.com
Mr. Gregory Zektser	703-984-0432	zektser_gregory@bah.com

5. Annex

List of Acronyms Used in this Document

ABIS – Automated Biometric Identification System
AHGBEA – Ad Hoc Group on Biometrics and E-Authentication
ANSI – American National Standards Institute
API – Application Programming Interface
ASN – Abstract Syntax Notation
BFP – biometric function provider
BIAS – Biometric Identity Assurance Services
BIP – BioAPI Interworking Protocol
BIR – biometric identification record
BSP – biometric service provider
BSWG – Biometric Standards Working Group
BTF – Biometrics Task Force
CBEFF – Common Biometric Exchange File Format
CD – committee draft
CIRDIF – Conformance Issues Related to Data Interchange Formats
COI – Community of Interest
CORVET - Coordinate Operational Resources for Voice Exploitation and Technology
CR – change request
DCOR - Draft Corrigendum
DHS – Department of Homeland Security
DISR – Defense Information Technology Standards Registry
DoD – Department of Defense
DTR – draft technical report
EBTS – Electronic Biometric Transmission Specification
EFTS – Electronic Fingerprint Transmission Specification
FaceQM – Face Image Quality Measurement
FBI – Federal Bureau of Investigation
FCD – final committee draft
FDIS – final draft international standard
FIPS – Federal Information Processing Standard
FIQM – Finger Image Quality Measurement
FOS – Family of Systems
FRVT – Face Recognition Vendor Test
GUI – graphical user interface
IA – information assurance
IAFIS – Integrated Automated Fingerprint Identification System
ICE – Iris Challenge Evaluation
ICP – interagency coordination plan
iDSM – interim data sharing model
IEC – International Electrotechnical Commission
INCITS M1 – InterNational Committee for Information Technology Standards

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IOC – initial operating capability
IPT – integrated product team
ISO – International Organization for Standardization
IT – information technology
ITL – Information Technology Laboratory
ITU-T – International Telecommunication Union Telecommunication Standardization Sector
JCTD – Joint Capability Technology Demonstration
JTC 1/SC 37 – Joint Technical Committee 1/Subcommittee 37
JXDM - Justice XML Data Model
LB – letter ballot
M1 – see INCITS M1
NaIL – Naval Innovation Laboratory
NB – national body
NCTC – National Counter Terrorism Center
NGEA – Next Generation Enterprise ABIS
NIEM – National Information Exchange Model
NIST – National Institute of Standards and Technology
NISTIR – NIST interagency report
NSTC – National Science and Technology Council
NWI – new work item
OASIS – Organization for the Advancement of Structured Information Standards
PDAM – proposed draft amendment
PIV – Personal Identity Verification
POC – point of contact
PR – public review
SCA – Standards and Conformance Assessment
SD – standing document
SG – special group
SIAC – Security, Information, Assurance, Cryptology, and Biometrics
SID – Seafarers Identity Document
SMT – scar, mark, and tattoo
SOA – Service Oriented Architecture
SP – special publication
SPI – service provider interface
SRR – System Requirements Review
TC – technical committee
TG – task group
TWG – technical working group
TWPDES – Terrorist Watchlist Person Data Exchange
USG – U.S. government
US-VISIT – U.S. Visitor and Immigrant Status Indicator Technology
WD – working draft
WG – working group
WIPT – working integrated product team
XCBF – XML Common Biometric Format
XML – eXtensible Markup Language