



BIOMETRICS
TASK FORCE

**Biometrics Task Force
Biometric Standards Activities Update
August – December 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	2nd Public Review (PR)	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
<p>INCITS 429: Conformance Testing Methodology for ANSI INCITS 358-2002, BioAPI Specification</p> <p>August 07: This standard is being published.</p>	None	<p>M1/06-1065 – Draft 8, 11 Dec 06</p>
<p>ISO/IEC 24709-1: Conformance Testing Methodology for BioAPI – Part 1: Methods and Procedures</p> <p>Feb 07: Published.</p>	None	<p>INCITS Online http://www.techstreet.com/incitsgate.tmpl</p>
<p>ISO/IEC 24709-2: Conformance Testing Methodology for BioAPI – Part 2: Test Assertions for Biometric Service Providers</p> <p>Feb 07: Published.</p>	None	<p>INCITS Online http://www.techstreet.com/incitsgate.tmpl</p>
<p>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</p> <p>Aug 07: This standard is in a 2nd PR.</p>	None	<p>M1/07-0178 – Editor’s proposed response to PR comments M1/07-0235 – M1 editor’s proposed disposition to queries 2nd PR period ends 07 Jan 2007</p>
<p>INCITS 421: American National Standard for Information Technology – Biometric Profile – Interoperability and Data Interchange DoD Implementations (formerly INCITS Project 1676-D)</p> <p>Jan 07: Published.</p>	None	<p>INCITS Online http://www.techstreet.com/incitsgate.tmpl</p>
<p>ISO/IEC 29109-1: Conformance Testing Methodology for Biometric Data Interchange Records – Part 1: Generalized Conformance Testing Methodology</p> <p>Aug 07: CD text posted for ballot.</p>	<p>BTF – continue to provide editorship</p> <p>BTF – participate in the CD ballot</p>	<p>SC 37 N2203 – text of CD text</p>

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
BTF response to TC/TG's response to the Initial Public Review Comments on Revision to INCITS 383:2004	M1/07-0638	06 Nov 07

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
Withdrawal ANSI INCITS 379-2004 Iris Image Interchange Format	30 Nov 07	M1/07-0631	Yes, w/ comments
Withdrawal of INCITS 423.6 project – Conformance Testing Methodology Part 6 - Conformance Testing - Iris Image Data - ANSI INCITS 379-2004	30 Nov 07	M1/07-0636	Abstain, w/ comments
Withdrawal of Project 1576-D Revision of ANSI INCITS 379-2004 Iris Image Interchange Format	30 Nov 07	M1/07-0633	Yes, w/ comments
Withdrawal of ANSI INCITS 396-2005 Hand Geometry Format for Data Interchange	30 Nov 07	M1/07-0630	Yes, w/ comments
Withdrawal of INCITS 423.10 project – Conformance Testing Methodology Part 10 - Conformance Testing - Hand Geometry - ANSI INCITS 396-2005	30 Nov 07	M1/07-0635	Yes, w/ comments
Forwarding Project 1564-D: Revision to INCITS 378-2004 - Part 2 - Finger Minutiae Format for Data Interchange to INCITS for PR	20 Dec 07	M1/07-0634	Yes

Standards in Public Review

The INCITS Technical Committee for Biometrics (M1) approved forwarding the following revised draft standards to INCITS for public review (PR). 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
Project 1563-D: Revised ANSI INCITS 377-2004 Finger Pattern Data Interchange Format Standard	M1/07-0629	TBD
INCITS 423.4: Conformance Testing Methodology for INCITS 381, Finger Image Data Interchange Format Interchange Format Standards - Part 4:	N/A	07 Jan 08

4. Upcoming Issues and Events

Recent and Upcoming Standards Body Meetings

Standards Body	Date and Location of Meeting
American National Standards Institute/National Institute of Standards and Technology (ANSI/NIST) Fingerprint Standard use of eXtensible Markup Language (XML)	06 Sep 07, 18 Sep 07
SC 37 WG2 Special Group on ACBio (Information Technology) – Security Techniques – Authentication Context for Biometrics	07 Sep 07
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
ANSI/NIST XML and Mobile ID Workshop	18-19 Sep 07
Special Group to Prepare and Coordinate SC 37 Responses and Input to SC 27	7 & 14 Sep (teleconference)
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

Interagency and Outside Coordination

Agency or Department	Date or Frequency of Meetings
DoD Biometric Standards Working Group (BSWG)	<i>Bi-Monthly</i> Wednesdays – 31 Oct, 05 Dec 07
National Science and Technology Council (NSTC), Subcommittee on Biometrics and Identity Management	09 Nov 07
National Science and Technology Council (NSTC) and the National Counter Terrorism Center (NCTC): Standards and Conformance Assessment (SCA) Working Group (WG)	<i>Monthly/Ad hoc</i> 30 Oct, 20 Nov 07
DoD IT Standards Registry (DISR), Information Assurance (IA) Security, Information Assurance, Cryptology, and Biometrics (SIAC) Technical Working Group (TWG)	<i>Quarterly</i> 04 Sep, 27 Mar 08
DoD Biometric Data Sharing Community of Interest (BDS COI), Enterprise Integrated Biometrics Data Dictionary (EIBDD)	02 Aug 07, 24 Aug 07, 14 Sep 07, 06 Dec 07
DoD Joint Biometrics Operation Coordination Board (JBOCB) & Joint Biometrics Technical Coordination Board (JBTCB)	<i>Monthly</i> Virtual JBOCB 25 Oct 07 Last JBOCB 14 Nov Next JBOCB 10 January 08 (tentative) Last JBTCB 15 Nov Next JBTCB 11 January 08 (tentative)
PEO-EIS Biometric Enterprise Interoperability WIPT	<i>Monthly</i> Last 23 Oct 07 Next TBD
PEO-EIS Biometric Testing and Evaluation WIPT	<i>Monthly</i> Last 24 Oct 07 Next 12 December 07 (tentative)
PEO-EIS sponsored System Requirements and Design Review Meetings	Biometrics Common Hardware/Software CDR – 09 Nov 07 Next Generation Enterprise ABIS (NGA) Business Rules WIPT – 8-9 Aug 07
Department of Homeland Security (DHS) Interoperability Integrated Project Team (IDENT/IAFIS)	<i>Weekly</i> 12 Oct 07, 26 Oct 07
DHS US-VISIT Unique Identity Technical Working Group	<i>Bi-weekly</i> 23 Aug 07, 06 Sep 07 at 2:00 p.m.
DHS Biometric Coordinating Group (BCG)	<i>Bi-monthly</i> 2 nd Tuesday, afternoon
DHS BCG RDT&E Working Group	28 Nov 07 – This was a kick-off meeting.
DHS Strategy and Policy Team	<i>Bi-weekly</i> Tuesdays 10am

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
M1/07-0454	05 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	05 Oct 07	M1.6	Call for Comments to WD 24714-2 – Jurisdictional and Societal Considerations for Commercial Applications – Part 2
M1/07-0657	17 Dec 07	M1	Call for Comments on JTC1 Calls for Comments
M1/07-0658	N/A	M1.3	Voice XML Comments in Response to Call for Comments M1/07-0612
M1/07-0653	14 Dec 07	M1.3	Call for Contribution towards US Vote for NP on Signature
M1/07-0651	N/A	M1	First Draft Agenda for the 26th Meeting of INCITS Technical Committee M1, Biometrics Thursday, December 20 1:30 PM - 6:00 PM and Friday, December 21 - 9:00 AM -12:30 PM, Noblis, Inc., Falls Church, VA - Host: Noblis, Inc.
M1/07-0648	04 Dec 07	M1.2/M1.3	Call for comments on 37N2303, text of SC 17 CD 24787 - Information technology - Identification cards - On-Card matching
M1/07-0640	29 Nov 07	M1/M1.6	Call for Comments on Identity Management NP ballot, ISO/IEC JTC 1/SC 37 N 2283
M1/07-0637	N/A	M1/M1.4	DHS response to TC/TG's response to the Initial Public Review Comments on Revision to INCITS 383:2004
M1/07-0628	29 Nov 07	M1.4	Call for Contributions on Project 1860-D, Information technology - Application Profile - Interoperability and Data Interchange Biometrics for E-Authentication
M1/07-0626	05 Dec 07	M1.2	Call for comments, contributions and volunteers for INCITS Project 1829-D, BioAPI – JAVA interfaces
M1/07-0625	05 Dec 07	M1.2	Call for contributions for annexes for other patron formats for INCITS Project 1853-D - Conformance Testing Methodology for (CBEFF) Data Structures
M1/07-0621	N/A	M1.5	M1.5 Response to Letter Ballot Comments on Project Proposal for NWI on Conformance Testing of Performance Tests
M1/07-0619 M1/07-0618 M1/07-0617	24 Nov 07	M1.5	Call for Contributions on 1602D-7 WD4: Biometric Performance Testing and Reporting – Part 7: Framework for Testing Methodologies for Specific Modalities

Document	Due Date	TC/TG	Comments
M1/07-0614	30 Nov 07	M1.3	Call for Contribution towards Polar Boundary Clarifications
M1/07-0612 M1/07-0294	30 Nov 07	M1.3	Call for Contribution towards Speaker Data Format
M1/07-0611	30 Nov 07	M1.3	Call for Contribution towards Finger Image Revision
M1/07-0607	N/A	M1.3	FBI DNA Presentation made to M1.3 at Purdue
M1/07-0606rev M1/07-0606	N/A	M1.3	Iritech Presentation regarding Iris Polar Format at Purdue
M1/07-0585 M1/07-0584 M1/07-0583 M1/07-0582 M1/07-0581 M1/07-0580 M1/07-0578 M1/07-0577 M1/07-0575 M1/07-0574 M1/07-0573 M1/07-0572 M1/07-0571 M1/07-0571 M1/07-0569	27 Sep 07	M1/M1.3/ M1.4	US NB Comments for 19794-14, 29794-5, 29794-4, 29109-5, 29109-4, 29109-2, 19794-6, 19794-5, 19794-4, 19794-2, 19794-2 Amd 1, ISO/IEC CD 24713-3, FDAM of 19794-5 Amd 1, CD 29794-1, CD 29109-1

Other BTF Activities

Activities	Status	Dates	Notes
Development of FIQM Methodology and Toolset	NIST is conducting large-scale testing.	Estimated Completion Date of Testing is Summer 08	POC: Dr. Bob Yen and Mr. Gregory Zektser
Development of FaceQM Methodology and Toolset	NIST is conducting large-scale testing.	Estimated Completion Date of Testing is Summer 08	POC: Dr. Bob Yen and Mr. Gregory Zektser
Distribution of FIQM and Prototype FaceQM	Both tools will soon be available for download from the BTF's new website (launch date pending).	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	JBTCB conducting review and developing comments.	Estimated release date: Jan 08	POC: Mr. Dale Hapeman
XML version of DoD EBTS 2.0	Under Development	Pending XML version of FBI EBTS estimated publication date summer 2008	POC: Mr. Dale Hapeman
DoD EBTS Version 3.0	As required	As required	POC: Mr. Dale Hapeman
Biometric Collection, Transmission, and Storage Standards Technical Reference	Currently available on the BTF website.	23 Feb 07	Next revision based on user requirements.
Conference of Institute of Electrical Electronics Engineers (IEEE) on Biometrics: Theory, Applications and Systems (BTAS '07)	BTF Standards Team participated in seminars, developed an understanding of biometric theories presented, and submitted a trip report to BTF leadership.	27-29 Sep 07	POC: Dr. Bob Yen
Biometric Consortium Conference (BCC)	Annual Biometric conferences that address the important role biometrics can play in the identification and verification of individuals in government and commercial applications worldwide.	11-13 Sep 07	Mr. Arun Vemury and Mr. Benji Hutchinson supported BTF
2nd National Biometric Challenge Workshop hosted by the International Biometrics Industry Association (IBIA)	NIST workshop focused on improving accuracy of biometric systems by incorporating quality assessment technologies into the sample acquisition process.	07-08 Nov 07	POC: Dr. Bob Yen
Biometric Identification Cluster Group (hosted by Noblis, Falls Church, Va.) – Recent Trends in Face Recognition, Dr. Rama Chellappa, Professor	Dr. Yen will participate in this event, develop a trip report to illustrate benefit to DoD efforts to increase biometric sample quality, and submit to BTF leadership.	12 Dec 07	POC: Dr. Bob Yen

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, 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. Dale Hapeman
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
DoD EBTS Development and Configuration Management	Mr. Dale Hapeman Mr. Benji Hutchinson
<u>DoD and USG Standards Coordination</u>	
NSTC Subcommittee on Biometrics – Standards and Conformance ICP (Chaired by BTF Director)	Mr. Benji Hutchinson
DoD BSWG (Interim Chair)	Mr. Benji Hutchinson
DoD BSWG (Secretary)	Mr. Benji Hutchinson
DISR IA TWG	Mr. Benji Hutchinson Mr. Dale Hapeman

Activity	Standards Team POC
DHS Biometric Coordinating Group	Mr. Mike Ko
DHS Strategy and Policy Team	Mr. Mike Ko
IDENT/IAFIS Interoperability IPT	Mr. Mike Ko
<u>DoD Standards Support</u>	
Standards Support to DoD ABIS	Mr. Dale Hapeman
Standards Support to DoD Data Sharing COI	Mr. Dale Hapeman Mr. Mike Ko Mr. Benji Hutchinson
Standards Support to Requirements WIPT	Mr. Benji Hutchinson
Standards Support to Architecture WIPT	Mr. Mike ko
<u>Tools Development & Support</u>	
BioAPI Conformance Testing Suite	Mr. Gregory Zektser
Biometric Sample Quality Measurement Tools (FIQM, FaceQM)	Dr. Bob Yen

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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

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