

# National Biometric Security Project



## Emerging Standards Relevant to Biometrics

Standard Number or Project Code	Official Name of Standard	Purpose	Current Status	Link to Latest Document (Note that documents are not necessarily available to everyone. Where a direct link is unavailable, follow the link and look for the document number. A password or payment may be required.)	Remarks
ISO 24761	Security Techniques – Authentication Context for Biometrics	Defines a methodology for remotely exchanging information about the devices and process (the context) used in biometric authentication to allow security evaluation by remote authenticators.	FCD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299784/JTC001-SC37-N-1932.pdf?nodeid=6153516&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299784/JTC001-SC37-N-1932.pdf?nodeid=6153516&amp;vernum=0</a>	
ISO 19792	Security Techniques - Security Evaluation of Biometrics	Framework for evaluating security of biometric technology when used for physical or logical access to put it on a similar footing to other security techniques	FCD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299784/JTC001-SC37-N-1746.pdf?nodeid=5581427&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299784/JTC001-SC37-N-1746.pdf?nodeid=5581427&amp;vernum=0</a>	
FBI EBTS version 8.002	Electronic Biometric Transmission Specification (EBTS)	Specifies the file and record content, format, and data codes necessary for the exchange of fingerprint, palmprint, facial, and iris information between federal, state, and local users and the FBI.	WD	<a href="http://www.fbibiospecs.org/fbibiometric/docs/EBTS%20V8.002%2004-01-08-final.pdf">http://www.fbibiospecs.org/fbibiometric/docs/EBTS%20V8.002%2004-01-08-final.pdf</a>	
ISO 24745	Security Techniques - Biometric Template Protection	Describes security techniques for biometric template protection	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299731/ISO_IEC_JTC1_SC37.pdf?nodeid=7486644&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299731/ISO_IEC_JTC1_SC37.pdf?nodeid=7486644&amp;vernum=0</a>	

ISO 18013-3	Information technology -- Personal identification -- ISO-compliant driving licence -- Part 3: Access control, authentication and integrity validation	Establishes guidelines for the design format and data content of an ISO-compliant driving licence (IDL) with regard to human-readable features	FDIS	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-1793.pdf?nodeid=5760377&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-1793.pdf?nodeid=5760377&amp;vernum=0</a>	
INCITS M1 STANDARDS					
M1 SD 4	Report on Issues for Harmonizing Conformity Assessment to Biometric Standards	Identification of issues for harmonizing conformity assessment to biometric standards	SD	<a href="http://www.incits.org/tc_home/m1htm/docs/m1050067.pdf">http://www.incits.org/tc_home/m1htm/docs/m1050067.pdf</a>	
M1.2 Standards					
INCITS 1622-D	Conformance Testing Methodology for Common Biometric Exchange Formats Framework (CBEFF) Data Structures Specified in INCITS 398-200x Revision	Standardized methods of determining whether a data record or system producing a data record conforms to the expected revision of CBEFF	NP	<a href="http://www.incits.org/tc_home/m1htm/2006docs/m1060484.pdf">http://www.incits.org/tc_home/m1htm/2006docs/m1060484.pdf</a>	
INCITS 1829-D	Biometric application programming interface – Java (BioAPI Java)	Defines a BioAPI specification that mirrors the international BioAPI standard 19784-1, but using the Java language	Draft	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070207.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070207.pdf</a>	
INCITS 1853-D	Information Technology - Conformance Testing Methodology Standard for Patron Formats Conforming to INCITS 398-200x (Revision of INCITS 398:2005), Information Technology – Common Biometric Exchange Formats Framework (CBEFF)	specifies the concepts, test types and conformance testing methodologies to test conformance of SBH implementations to their standardized patron format specifications	Draft	<a href="http://www.incits.org/tc_home/m1htm/2008xdocs/m1080152.pdf">http://www.incits.org/tc_home/m1htm/2008xdocs/m1080152.pdf</a>	Revision 3
M1.3 Standards					
INCITS 378-2004 Revision	Revision of Finger Minutiae Format for Data Interchange	Technical clarifications to improve interoperability	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008xdocs/m1080318.pdf">http://www.incits.org/tc_home/m1htm/2008xdocs/m1080318.pdf</a>	Revision 9
INCITS 377-2004 Revision	Revision of Finger Pattern Data Interchange Format	Technical clarifications to improve interoperability and harmonize this standard with other data format standards	Advanced Draft	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070629.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070629.pdf</a>	Revision 3
INCITS 381-2004 Revision	Revision of Finger Image Based Data Interchange Format	Technical clarifications to improve interoperability and make minor corrections	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008xdocs/m1080319.pdf">http://www.incits.org/tc_home/m1htm/2008xdocs/m1080319.pdf</a>	Revision 5

INCITS 385-2004 Revision	Revision of Face Recognition Format for Data Interchange	Technical clarifications to improve interoperability and make minor corrections	Draft	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070561rev.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070561rev.pdf</a>	Revision 4
INCITS 379-2004 Revision	Revision of Iris Image Interchange Format	A revision to make minor technical corrections and to rewrite the standard to simplify conformance testing and improve clarity	Withdrawn		
INCITS 1672-D	Biometric Sample Quality Standard	A standard to define quality metrics for biometrics and recommend how to include them in data interchange formats	Suspended	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070494.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070494.pdf</a>	Already being incorporated in ISO/IEC 29794-1
INCITS 1821-D	Speaker Recognition Format for Raw Data Interchange (SIVR)	A standard to define a data interchange format for speaker data	Advanced Draft	<a href="http://www.incits.org/tc_home/m1htm/2008docs/m1080231.pdf">http://www.incits.org/tc_home/m1htm/2008docs/m1080231.pdf</a>	Revision 5
INCITS 1749-D	Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards				
Part 3	Conformance Testing Methodology for INCITS 377-2004, Finger Pattern Data Interchange Format	Standardized methods of determining whether a biometric system conforms to the finger pattern data interchange format	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008docs/m1080229.pdf">http://www.incits.org/tc_home/m1htm/2008docs/m1080229.pdf</a>	Revision 6
Part 4	Conformance Testing Methodology for INCITS 381, Finger Image-Based Data Interchange Format	Standardized methods of determining whether a biometric system conforms to the finger image data interchange format	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008docs/m1080227.pdf">http://www.incits.org/tc_home/m1htm/2008docs/m1080227.pdf</a>	
Part 5	Conformance Testing Methodology for INCITS-385, Face Recognition Format for Data Interchange	Standardized methods of determining whether a biometric system conforms to the face recognition data interchange format	On Hold	<a href="http://www.incits.org/tc_home/m1htm/2006docs/m1061039.pdf">http://www.incits.org/tc_home/m1htm/2006docs/m1061039.pdf</a>	Reference ISO 29109-5
Part 6	Conformance Testing Methodology for INCITS 379-2004, Iris Image Interchange Format	Standardized methods of determining whether a biometric system conforms to the iris image data interchange format	Withdrawn		
Part 10	Conformance Testing Methodology for INCITS 396-2005, Information Technology - Hand Geometry Interchange Format	Standardized methods of determining whether a biometric system conforms to the hand geometry data interchange format	Withdrawn		
M1.4 Standards					

INCITS 1575-D	Biometric Profile - Point-of-Sale Biometrics-Based Verification and Identification	Profile for Using Other Biometric Standards in Applications Involving Point-of-Sale Transactions	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2007docs/M1070369.pdf">http://www.incits.org/tc_home/m1htm/2007docs/M1070369.pdf</a>	ANSI INCITS 420-200X
INCITS 1860-D	Study Report on Biometrics in E-Authentication	Shows how biometrics can and should be used for the various OMB assurance levels in E-Authentication	Final Approved Report and NP	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070185rev.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070185rev.pdf</a>	30 Day letter ballot resulted in the withdrawal of Project 1860-D
M1.5 Standards					
INCITS 1602-D	Biometric Performance Testing and Reporting				
Part 5	Framework for Testing and Evaluation of Biometric Systems for Access Control	Specific standards for testing performance of biometric access control systems	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008xdocs/m1080327.pdf">http://www.incits.org/tc_home/m1htm/2008xdocs/m1080327.pdf</a>	Revision 6
Part 7	Framework for Testing Methodologies for Specific Environments of Biometric Systems	Describes modifications to general test guidelines required for testing of specific biometric modalities in specific environments	Public Review	<a href="http://www.incits.org/tc_home/m1htm/2008xdocs/m1080332.pdf">http://www.incits.org/tc_home/m1htm/2008xdocs/m1080332.pdf</a>	Revision 7
Part 8	Statistical methods for decision making	This TR deals with the final two stages of the Biometric Testing Life-Cycle	WD	<a href="http://www.incits.org/tc_home/m1htm/2007docs/m1070504.pdf">http://www.incits.org/tc_home/m1htm/2007docs/m1070504.pdf</a>	This TR will fill a gap where 19795-1 stops short of being what is needed for use by decision makers
ISO/IEC JTC 1 SC 37 STANDARDS					
WG 1 Standards					
SC 37 SD 2	Harmonized Biometric Vocabulary	Definitions of biometric terms	SD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/22http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263033/2299739/JTC001-SC37-N-2777_SD2_July_2008.pdf?nodeid=7525726&amp;vernum=099802/JTC001-SC37-N-1978.pdf?nodeid=6181365&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/22http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263033/2299739/JTC001-SC37-N-2777_SD2_July_2008.pdf?nodeid=7525726&amp;vernum=099802/JTC001-SC37-N-1978.pdf?nodeid=6181365&amp;vernum=0</a>	Version 10
WG 2 Standards					
ISO 19785	Common Biometric Exchange Formats Framework (CBEFF)	To allow biometric data to be exchanged with clearly understood header elements defined in a registry of formats			

Part 4	Security Block Format Specifications	Provides information on the specific techniques that can be used to define a CBEFF security block	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1949.pdf?nodeid=6164479&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1949.pdf?nodeid=6164479&amp;vernum=0</a>	
ISO 19784	Biometric Application Programming Interface (BioAPI)	Defines an Application Programming Interface for biometric software			
Part 1 Amendment 2	Framework Free BioAPI	Adds support for BioAPI on some limited capacity devices by leaving out the overhead of the framework	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300188/JTC001-SC37-N-2728.pdf?nodeid=7497316&amp;vernum=0/2262372/2262568/2299731/JTC001-SC37-N-1967.pdf?nodeid=6172292&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300188/JTC001-SC37-N-2728.pdf?nodeid=7497316&amp;vernum=0/2262372/2262568/2299731/JTC001-SC37-N-1967.pdf?nodeid=6172292&amp;vernum=0</a>	
Part 1 Amendment 3	Support for the interchange of certificates and security assertions, and other security aspects	Adds support for encryption and digital signatures to BioAPI	CD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1731.pdf?nodeid=5571881&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1731.pdf?nodeid=5571881&amp;vernum=0</a>	
Part 3	BioAPI Lite	A reduced version of BioAPI for small embedded devices	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299801/JTC001-SC37-N-2453.pdf?nodeid=7113839&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299801/JTC001-SC37-N-2453.pdf?nodeid=7113839&amp;vernum=0</a>	
Part 4	Biometric Sensor Function Provider Interface	Low level function calls for dealing with BioAPI compliant sensors	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1732.pdf?nodeid=5571884&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1732.pdf?nodeid=5571884&amp;vernum=0</a>	
ISO 24708	BioAPI Interworking Protocol (BIP)	Protocol for Interworking Between BioAPI Systems and a Central Repository - Defines a communications protocol for exchanging information between BioAPI systems	FDIS	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2299791/2299268/2299269/JTC001-SC37-N-2510.pdf?nodeid=7206462&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2299791/2299268/2299269/JTC001-SC37-N-2510.pdf?nodeid=7206462&amp;vernum=0</a>	

Amendment 1	Support for the interchange of certificates and security assertions, and other security aspects	Adds support for encryption and digital signatures to BIP	NP	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1731.pdf?nodeid=5571881&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1731.pdf?nodeid=5571881&amp;vernum=0</a>	
ISO 24709	Conformance Testing for BioAPI	Standardized methods of determining whether a software system conforms to the BioAPI standard above			
Part 3	Test Assertions for BioAPI Frameworks	Defines specific assertions that must be tested in order to verify conformance for BioAPI frameworks	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2764.pdf?nodeid=7520208&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2764.pdf?nodeid=7520208&amp;vernum=0</a>	
Part 4	Test Assertions for Biometric Applications	Defines specific assertions that must be tested in order to verify conformance for Biometric Applications	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1951.pdf?nodeid=6168672&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1951.pdf?nodeid=6168672&amp;vernum=0</a>	
ISO 29141	Information Technology — Tenprint Capture Using BioAPI	Specifies requirements for the use of BioAPI 2.1, specified in ISO/IEC 19784-1 with Amd. 1, a software interface standard, for the purpose of performing a tenprint capture operation.	FCD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2706.pdf?nodeid=7488403&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2706.pdf?nodeid=7488403&amp;vernum=0</a>	
ISO 29164	Information Technology - BioAPI Lite	provides a standard interface with hardware biometric modules, designed to be integrated in embedded systems which may be constrained in memory and computational power.	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2739.pdf?nodeid=7502426&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2739.pdf?nodeid=7502426&amp;vernum=0</a>	
WG 3 Standards					
ISO 19794	Biometric Data Interchange Formats	Modules, designed to be integrated in embedded systems which may be constrained in memory and computational power.			
Part 1 Revision	Framework	Provides supplementary guidance on the definition of minutiae points in a fingerprint image	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2483.pdf?nodeid=7152350&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2483.pdf?nodeid=7152350&amp;vernum=0</a>	

Part 2 - Amendment 1	Detailed Description of Finger Minutiae Location, Direction and Type	Provides supplementary guidance on the definition of minutiae points in a fingerprint image	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2249.pdf?nodeid=6706427&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2249.pdf?nodeid=6706427&amp;vernum=0</a>	
Part 2 Revision	Finger Minutiae Data	Revision to deal with common headers, better specification of conformance and other areas for improvement	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N2771.pdf?nodeid=7522511&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N2771.pdf?nodeid=7522511&amp;vernum=0</a>	
Part 2:2005 Correction 1	Finger Minutiae Data Technical Corrigendum 1	to correct technical errors and ambiguities in ISO/IEC 19794-2:2005, which were inadvertently introduced in drafting and could lead to incorrect application of that International Standard.	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-2218.pdf?nodeid=6690308&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-2218.pdf?nodeid=6690308&amp;vernum=0</a>	
Part 3 Revision	Finger Pattern Spectral Data	Revision to deal with common headers, better specification of conformance and other areas for improvement	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2501.pdf?nodeid=7202144&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2501.pdf?nodeid=7202144&amp;vernum=0</a>	
Part 4 Revision	Finger Image Data	Revision to deal with common headers, better specification of conformance and other areas for improvement	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2772.pdf?nodeid=7523163&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2772.pdf?nodeid=7523163&amp;vernum=0</a>	
Part 4 Correction 1	Finger image data Technical Corrigendum 1	Correct technical errors and ambiguities in ISO/IEC 19794-4:2005, which were inadvertently introduced in drafting and could lead to incorrect application of that International Standard.	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-2253.pdf?nodeid=6711716&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-2253.pdf?nodeid=6711716&amp;vernum=0</a>	
Part 5 Amendment 2	3 Dimensional Face Image Data Interchange Format	Supports face image data in the third dimension (z-axis) in addition to the current two dimensional data (x-axis and y-axis)	FPDAM	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300188/JTC001-SC37-N-2740.pdf?nodeid=7508224&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300188/JTC001-SC37-N-2740.pdf?nodeid=7508224&amp;vernum=0</a>	

Part 5 Revision	Face Image Data	Revision to deal with common headers, better specification of conformance and other areas for improvement	CD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2756.pdf?nodeid=7518918&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2756.pdf?nodeid=7518918&amp;vernum=0</a>	
Part 5 Correction 3	Face Image Data — Technical Corrigendum 3	to correct technical errors and ambiguities in ISO/IEC 19794-5:2007, which were inadvertently introduced in drafting and could lead to incorrect application of that International Standard.	CD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2299791/2299796/2300187/JTC001-SC37-N-2462.pdf?nodeid=7120950&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2299791/2299796/2300187/JTC001-SC37-N-2462.pdf?nodeid=7120950&amp;vernum=0</a>	
Part 6 Revision	Iris Image Data	Revision to deal with common headers, better specification of conformance and other areas for improvement	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2780.pdf?nodeid=7526878&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2780.pdf?nodeid=7526878&amp;vernum=0</a>	
Part 8	Finger Pattern Skeletal Data	Specifies the interchange format for the exchange of pattern-based skeletal fingerprint recognition data.	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2242.pdf?nodeid=6700577&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2242.pdf?nodeid=6700577&amp;vernum=0</a>	
Part 8	Finger Pattern Skeletal Data – Draft Technical Corrigendum 1	Correct technical errors and ambiguities in ISO/IEC 19794-8:2006, which were inadvertently introduced in drafting and could lead to incorrect application of that International Standard.	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-1990.pdf?nodeid=6220478&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299798/JTC001-SC37-N-1990.pdf?nodeid=6220478&amp;vernum=0</a>	
Part 11	Signature/Sign Dynamic Data	Uses dynamic data extracted from the raw time series data from a signature or sign	CD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2763.pdf?nodeid=7521386&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2763.pdf?nodeid=7521386&amp;vernum=0</a>	
Part 12	Technical Report on Face Identity Data	Uses MPEG-7 face descriptions and other face recognition technologies	Withdrawn		

Part 13	Speech Data Interchange Format for Speaker Recognition	Defines speech data interchange format(s) for speaker recognition. One data interchange format will support raw speech; other possibilities include formats for interchange at the feature vector level.	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2493.pdf?nodeid=7182491&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2493.pdf?nodeid=7182491&amp;vernum=0</a>	
Part 14	DNA Data Interchange Format	Defines a format for the exchange of DNA information for human identification	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2773.pdf?nodeid=7523479&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2773.pdf?nodeid=7523479&amp;vernum=0</a>	
ISO 29109	Conformance Testing Methodology for Biometric Data Interchange Records as defined in ISO/IEC 19794 Biometric Data Interchange Format Standard	Defines a conformance testing methodology, including test procedures, test assertions and in some cases, test data, for testing conformance to each of the data interchange formats defined in ISO 19794			
Part 1	Generalized Conformance Testing Methodology	Provides overall guidance on test methodology and a syntax for defining test assertions	FCD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2704.pdf?nodeid=7486647&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2704.pdf?nodeid=7486647&amp;vernum=0</a>	
Part 2	Finger Minutiae Data	Conformance assertions and specific tests for ISO 19794-2	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2762.pdf?nodeid=7521383&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2762.pdf?nodeid=7521383&amp;vernum=0</a>	
Part 3	Finger Pattern Spectra Data	Conformance assertions and specific tests for ISO 19794-3	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-2524.pdf?nodeid=7276143&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-2524.pdf?nodeid=7276143&amp;vernum=0</a>	
Part 4	Finger Image Data	Conformance assertions and specific tests for ISO 19794-4	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2741.pdf?nodeid=7506568&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2741.pdf?nodeid=7506568&amp;vernum=0</a>	

Part 5	Face Image Data	Conformance assertions and specific tests for ISO 19794-5	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2787.pdf?nodeid=7535280&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2787.pdf?nodeid=7535280&amp;vernum=0</a>
Part 6	Iris Image Data	Conformance assertions and specific tests for ISO 19794-6	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2786.pdf?nodeid=7534812&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2786.pdf?nodeid=7534812&amp;vernum=0</a>
Part 7	Signature/Sign Time Series Data	Conformance assertions and specific tests for ISO 19794-7	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-2604.pdf?nodeid=7326337&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2262568/2299779/JTC001-SC37-N-2604.pdf?nodeid=7326337&amp;vernum=0</a>
Part 8	Finger Pattern Skeletal Data	Conformance assertions and specific tests for ISO 19794-8	NP	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0</a>
Part 9	Vascular Biometric Image Data	Conformance assertions and specific tests for ISO 19794-9	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2783.pdf?nodeid=7528532&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2783.pdf?nodeid=7528532&amp;vernum=0</a>
Part 10	Hand Geometry Silhouette Data	Conformance assertions and specific tests for ISO 19794-10	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2784.pdf?nodeid=7533478&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2784.pdf?nodeid=7533478&amp;vernum=0</a>
Part 11	Signature/Sign Dynamic Data	Conformance assertions and specific tests for ISO 19794-11	NP	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0</a>
Part 13	Speech Data Interchange Format for Speaker Recognition	Conformance assertions and specific tests for ISO 19794-13	NP	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-1734.pdf?nodeid=5573505&amp;vernum=0</a>

Part 14	DNA Data Interchange Format	Conformance assertions and specific tests for ISO 19794-14	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2499.pdf?nodeid=7201154&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2499.pdf?nodeid=7201154&amp;vernum=0</a>	
ISO 29794	Biometric Sample Quality	Methods for use of ISO/IEC 19794 Biometric Data Interchange Format Standards for interchange and interpretation of biometric sample quality scores			
Part 1	Framework	Defines aspects of biometric sample quality that are not modality specific.	FCD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2727.pdf?nodeid=7497421&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2727.pdf?nodeid=7497421&amp;vernum=0</a>	
Part 4	Fingerprint Sample Quality	For the purposes of biometric sample quality score normalization, this supplemental Part 4 of 29794 specifies the aspects of quality specific to the finger image modality as necessary	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2202.pdf?nodeid=6656024&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2202.pdf?nodeid=6656024&amp;vernum=0</a>	
Part 4	Technical Report on Fingerprint Sample Quality	Defines specific methods for developing quality scores for fingerprint images.	PDTR	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300193/JTC001-SC37-N-2452.pdf?nodeid=7113194&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300193/JTC001-SC37-N-2452.pdf?nodeid=7113194&amp;vernum=0</a>	
Part 5	Face Image Data Sample Quality	Defines specific methods for developing quality scores for face images.	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1977.pdf?nodeid=6180976&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-1977.pdf?nodeid=6180976&amp;vernum=0</a>	
ISO 29159	Information Technology — Biometric Calibration, Augmentation and Fusion Data — Part 1: Fusion Information Format	Establishes machine readable data formats to describe the statistics of similarity score inputs to a fusion process.	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2759.pdf?nodeid=7521276&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2759.pdf?nodeid=7521276&amp;vernum=0</a>	
WG 4 Standards					

ISO 24713	Biometric Profiles for Interoperability and Data Interchange	Biometric Profiles for different applications give information about using biometrics in the application and explain specifically how to use other standards to support that application			
Part 3	Biometric-Based Verification and Identification of Seafarers	Designed for seafarers in their unique environment on ships and at ports where they may use a Seafarers' Identity Document (International Labour Organization is the main client)	FCD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2705.pdf?nodeid=7487183&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299748/JTC001-SC37-N-2705.pdf?nodeid=7487183&amp;vernum=0</a>	
WG 5 Standards					
ISO 19795	Biometric Performance Testing & Reporting				
Part 5	Scenario Evaluation of Biometric Access Control Systems	Defines how to test biometric performance in an access control system	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2770.pdf?nodeid=7521979&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2770.pdf?nodeid=7521979&amp;vernum=0</a>	
Part 6	Testing Methodologies for Operational Evaluation	Gives specific details and requirements for conducting an operational test	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2451.pdf?nodeid=7112884&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2451.pdf?nodeid=7112884&amp;vernum=0</a>	
Part 7	Testing of ISO/IEC 7816-based Verification Algorithms	Establishes a mechanism for measuring the core algorithmic capabilities of fingerprint matching algorithms running on standardized ISO/IEC 7816 smart cards	CD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2758.pdf?nodeid=7519692&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300191/JTC001-SC37-N-2758.pdf?nodeid=7519692&amp;vernum=0</a>	
ISO 29120	Machine Readable Test Data for Biometric Testing and Reporting	This multipart standard will enhance the usability of biometric test data by providing them in a common and machine readable form.			
Part 1	Framework and Components	Establishes machine readable records for documenting the output of a biometric test, and formats for data that tests conformant to parts ISO/IEC 19795 are required to report	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0</a>	

Part 2	Test Input Data Specifications	Establish a mark-up for corpora of archival sample data.	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0</a>	
Part 3	Test Reports	Establish machine readable records for documenting the output of a biometric test.	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0</a>	
Part 4	Biometric Test Certificates	intended to support the SC27 ISO/IEC 24761 (AcBio) and similar projects	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2782.pdf?nodeid=7528526&amp;vernum=0</a>	
ISO 29156	Guidance for specifying performance requirements to meet security and usability needs in applications using biometrics	Provide guidance on specifying performance requirements for incorporating biometric recognition in a system	NP	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299801/JTC001-SC37-N-2454.pdf?nodeid=7113619&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299801/JTC001-SC37-N-2454.pdf?nodeid=7113619&amp;vernum=0</a>	
WG 6 Standards					
ISO 24714	Technical Report on Cross Jurisdictional and Societal Aspects of Implementations of Biometric Technologies	A complex report that defines guidelines for data privacy, providing support for those with disabilities, and similar societal or legal issues related to biometrics			
Part 1	Guide to the accessibility, privacy and health and safety issues in the deployment of biometric systems for commercial applications	Introduction to issues that should be considered in the design and implementation of biometric systems in three areas of privacy, accessibility and Health & safety.	PDTR	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300193/JTC001-SC37-N-1985.pdf?nodeid=6212341&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2300193/JTC001-SC37-N-1985.pdf?nodeid=6212341&amp;vernum=0</a>	
Part 2	Specific Technologies and Practical Applications	Provides more detailed coverage of the issues discussed in Part 1, each referring to a specified selection of biometric technologies (fingerprint, iris, face, dynamic signature, voice recognition and vascular biometrics).	WD	<a href="http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2261.pdf?nodeid=6715191&amp;vernum=0">http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2261.pdf?nodeid=6715191&amp;vernum=0</a>	

ISO 24779	Pictograms, Icons and symbols for Use with Biometric Systems	Defines pictograms, icons and symbols that are recommended for use in the human interface with biometric technology	WD	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2244.pdf?nodeid=6700437&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2299802/JTC001-SC37-N-2244.pdf?nodeid=6700437&amp;vernum=0</a>	
ISO 29144	Information Technology – Biometrics – The role of biometrics in Identity Management	Defines appropriate terms for the establishment of a primary/strong identification linked to biometric verification and a biometric database, and the optional issuing of appropriate travel or commercial documents containing chips that provide a secondary repository for the recorded biometric data and the associated assigned identification.	NP	<a href="http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-2283.pdf?nodeid=6903976&amp;vernum=0">http://isotc.iso.org/livelink/livelink/etch/2000/2122/327993/2262372/2263034/2300192/JTC001-SC37-N-2283.pdf?nodeid=6903976&amp;vernum=0</a>	

Note on Current Status: ISO standard progression typically follows the following steps:

- |  |   |
|--|---|
| 1) <b>NP</b> - New Project Proposal  | 2) <b>WD</b> - Working Draft  |
| 3) <b>CD</b> - Committee Draft (Technical Content Should be Relatively Stable) | 4) <b>FCD</b> - Final Committee Draft (No Significant Changes Should Occur) |
| 5) <b>FDIS</b> - Final Draft International Standard (No Changes Permitted)     | 6) <b>ISO Standard</b>  |
| 7) <b>SD</b> - Standing Document - A special document maintained by SC 37      | 8) <b>FPDAM</b> - Final Proposed Draft Amendment                            |
| 9) <b>PDTR</b> - Proposed Draft Technical Report                               |   |

**Note that status in this spreadsheet refers to the latest version of a document available. In some cases, the ballot to approve that version of the document may not yet have taken place.**

There is also the special category of standing document (**SD**), which reflects a document that the technical committee believes is technically useful and should be maintained on the committee web site, but which is not a formal standard

RED FONT INDICATES A CHANGE (normally an addition) FROM PREVIOUS REPORT.