



## ISO/IEC JTC 1 N9716

2009-09-13

**Replaces:**

### ISO/IEC JTC 1 Information Technology

**Document Type:** other (defined)

**Document Title:** SC 37 Chairman's Presentation to the October 2009 JTC 1 Plenary Meeting in Tel Aviv

**Document Source:** SC 37 Chairman

**Project Number:**

**Document Status:** This document is forwarded to JTC 1 National Bodies for review and consideration at the October 2009 JTC 1 Plenary meeting in Tel Aviv.

**Action ID:** ACT

**Due Date:**

**No. of Pages:** 13



# ISO/IEC JTC 1 SC 37

---

Fernando L. Podio, SC Chair  
Lisa Rajchel, SC Secretariat  
2009 JTC 1 Plenary



# What is New

---

- Work items (recently approved):
  - ISO/IEC 29794 – 6, Biometric Sample Quality, Part 6 - Iris Image (WG3)
  - Technical Report on Guidance for Biometric Enrolment (WG4)
  - Technical Report - Passenger Processes for Biometric Recognition in Automated Border Crossing Systems (WG4)
  - Evaluation Methodology for Environmental Influence in Biometric Systems (WG5)
  - Technical report - Characterization and measurement of difficulty for fingerprint databases for technology evaluation (WG5)
  - Technical Report on Accessibility and usability of biometric systems (WG 6)



# What is New (Cont.)

---

## ■ Work items (under ballot):

- Operational evaluation of operator-led biometric systems (due date: 2009-11-27)
- Harmonized Biometric Vocabulary (due date: 2009-11-23)
- ISO/IEC 29109-2 AMD 1: Level 3 Conformance Testing for Finger Minutiae Data (due date: 2009-11-10)
- ISO/IEC 19794-1 AMD 1: Framework for XML encoding (due date: 2009-11-10)

## ■ Participants

- Membership has not changed. It consists of 25 P-Members and 7 O-members.

## ■ Liaisons

- No new liaisons were established.



# User Engagement

---

## ■ Participation – It has increased:

- Over 110 delegates from National Bodies (NBs) and Liaison organizations participate in the SC 37/WG meetings. An average of 18 NBs participate in the Plenary meetings.
- Required 50% voting participation is met or exceeded in every ballot.
- Representation:
  - System integrators
  - Biometric industry
  - Representatives from government organizations
  - Research and testing national laboratories
  - Universities
  - Experts from other JTC 1/SCs



# User Engagement (Cont.)

---

## ■ Requirements addressed

- The development of the “second generation” of biometric standards reflect technology innovations and meet new customers’ needs.

## ■ Challenges

- Due to the large number of ongoing projects, still more expert participation would be welcome.
- Major challenge is the timely development of the required standards to meet customers’ needs for these standards.



# Known Implementations

---

## ■ Adoption is underway:

- International Civil Aviation Organization for Machine Readable Travel Documents required some of the SC 37 standards (e.g., e-passports)
- ILO's Seafarers ID Card
- EU passport specification based on EU Council Regulation on standards for security features (biometrics in passports and travel documents).
- Several countries represented in SC 37. Examples:
  - Spain (requirements for two official documents)
  - U.S.A. ("*Registry of U.S. Government Recommended Biometric Standards*")
- Normative requirements of biometric standards in other standards (e.g., SC 17, SC 27).



# Outreach

---

## ■ Press releases

- ISO: "*New ISO/IEC report clarifies societal, cultural and ethical issues related to use of biometrics for identifying people*", ISO News, February 2009.

## ■ Articles and Books

- "*Advances in Biometrics Sensors, Algorithms and Systems*", Ratha, Nalini K.; Govindaraju, Venu (Eds.), October 2007 Springer London.
- "*Future Society and Standards*", Korean Standards Association (KSA), 2007
- "*Encyclopedia of Biometrics*", Springer, 2009 (15 entries related to biometric standards)





# Outreach

---

- Citings by external sources. Examples:
  - Conferences:
    - Advances in Biometrics, International Conference on Biometrics, ICB 2007, Korea University Seoul Korea, August 2007
    - Biometric Consortium 2008, Tampa, FL, U.S.A. September 2008.
    - TeleTrust Workshop Biometrics Darmstadt – Germany, March 2009
    - Annual Biometrics Institute Conference, Sydney, Australia, May 2009
    - 14th EURAS Conference, Cergy Pontoise, France, June 2009
    - Biometrics and Electronic Signatures - Research and Applications, Darmstadt, Germany, September 2009
    - Biometric Consortium Conference, Tampa, FL, U.S.A. September 2009



# Outreach (Cont.)

---

- Citings by external sources (cont.)
  - University Seminars/Courses:
    - "*Future Society and Standards*", Chung-Ang Univ., Korea
    - "*Seminar in Technology*", Purdue University, IN, U.S.A.
    - "*Biometrics*" & "*Automatic Identification and Data Capture*" courses, Purdue University, IN, U.S.A.



# Challenges

---

## ■ Impediments to success

- Adoption of biometric-based high performance, interoperable systems depends, in part, on the timely availability of a portfolio of biometric standards required by:
  - End-users and industry
  - Other standards bodies within JTC 1, ISO TCs, external standards organizations and other customers
- A major risk that may jeopardize this consumer adoption is the time associated with the development of these standards.
- SC 37 is doing its best to mitigate this risk through the use of IT tools, international cooperation and team work, the establishment of OWG to work in-between WG meetings, and tight program management.



# Issues or Needs

---

## ■ Resource constraints

- More expert participation would extend SC 37's work/contributions to:
  - Harmonization of biometric and other standards under development in other standards bodies (e.g., ITU-T, SC 17, SC 27)
- Level 3 conformance testing requires extended participation from national testing laboratories, researchers.
- Development of application profiles requires more end-user participation.
- Contributions on the use of biometric standards for verification of users' identity in many areas (e.g., cloud computing, sensor networks, transportation, health care) require more expert's participation.



# 2010

---

## ■ New directions – Examples:

- Addressing new projects and the second generation of biometric standards development to meet technology innovations and new customers' needs (e.g., multi-biometrics, 3D).
- Considering transition of the data formats to XML encoding or development of complementary data formats.
- Addressing level 3 conformance testing
  - Joint WG3 & 5 work - performance testing and results are affected by semantic content - need for databases
- Analyzing requirements for additional performance testing methodology standards

## ■ Date/location of next SC plenary

- 19-20 July, 2010/Malaysia