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SUB-COMMITTEE 17

Cards and Personal Identification

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SC17 Scope

Standardization in the area of

a) identification and related documents

b) cards

and devices associated with their use

in inter-industry applications and international interchange

www.sc17.com

SC17

- Highlights from SC17's programme of work
- Co-operation and competition

WG1 – Physical Characteristics and Test Methods

- ISO/IEC 24789 - 'Card Service Life' - 2-part standard for accelerated life testing for longer life cards, e.g. for ID and ePassport card applications. Resolved comments from 2nd CD ballot at October 08 meeting.
- ISO/IEC 7810 and 10373-1 - consolidating physical characteristics and corresponding test methods from other SC17/WG's technologies in the one standard, e.g. surface conductivity causing problems with ESD in readers from WG4's 7816-1 'ICCs with Contacts' and physical requirements of WG8's 14443-1 'Contactless ICCs'
- ISO/IEC 7811-9 'Tactile Identification Mark' published - defines 'Braille like' identification marks on the card for the visually impaired

WG3 - Machine Readable Travel Documents (MRTDs)

- 5th Edition ISO/IEC 7501-1 'Machine Readable Passport' published; short-form endorsement of ICAO Document No. 9303 Part 1 'Passports'
- 50x nations currently issuing ePassports, 40x more by end-2009 (It took 10 years to get 7x nations to issue the original MRP)
- 70% of all new passports in issue are ePassports
- On-line Supplement to 9303-1 developed for ICAO by WG3 and hosted on ICAO web site

WG3 - Machine Readable Travel Documents (MRTDs)

- 3rd Edition ICAO Document No. 9303 Part 3 'Machine Readable Travel Documents' (Cards) finalized by ICAO on 7 Oct 08; to be followed by ballot for short form endorsement in ISO
- WG3 has helped ICAO prepare the final version of an 'ICAO' Technical Report on testing methodology. This forms the basis of the new WG3 ISO/IEC standard for MRTD Test Methods

WG4 – Integrated Circuit Cards with Contacts

- ISO/IEC 24727 'Programming Interface for ICCs' - new 6x part standard providing high-level API for applications working with smart cards
- Designed to operate over low level protocol stack, e.g. WG4's 7816 series or alternatives such as Java card; either contact or contactless
- Vehicle licensing authority of Queensland, Australia, are using this standard for their new machine readable drivers licence and are developing the test methods in parallel with WG4 developing Part 5 of the standard, i.e. 'Testing'

WG8 - Contactless ICCs

- ISO/IEC 14443 - Proximity contactless ICCs (PICCs) - Revised 2nd Edition Parts 1 and 4 published mid-08; Parts 2 and 3 under revision out for FCD ballot end-Nov 08
- ISO/IEC 10373-6 Amendment 7 'ePassports' - amendment adding tests to 10373-6 'PICC test methods' specifically for ePassports for WG3/ICAO

WG8 - Contactless ICCs

Current active new work items:

- Electromagnetic disturbances (EMD) - WDs for 14443-3 and corresponding test methods in 10373-6 for mid-09
- Additional classes of PICC (of any form factor) - to define antenna sizes other than just inside the perimeter of an ID1 card (i.e. 'Class 1')
- Multiple PICCs in a single operating field, e.g. multiple contactless cards in your wallet. (Different from single device, e.g. NFC phone, acting as multiple virtual cards or multiple readers all reading one 'card' as with RFID posters.)
- Contactless cards with very high data rates

WG10 – Motor Vehicle Drivers Licence and Related Documents

- ISO/IEC 18013 'ISO Compliant Driving Licence' - 4x part standard.
- Parts 1 and 2 published.
- Part 3 covers mechanisms available to issuing authorities to control access to IDL data (stored in machine readable form), authenticate IDLs (making use of machine readable data) and/or to validate integrity (both machine readable and human readable). FDIS ballot closed 8 Oct 08
- Part 4 'Test Methods' - WD by Jan 09

WG10 – Motor Vehicle Drivers Licence and Related Documents

- EU Commission working on a new driver licensing Directive (3rd) are considering 18013 parts 2 and 3 for guidance.
- Similarly, AAMVA are updating their DL/ID Card Design Spec to accommodate the “REAL ID” programme in US. Where previously only considered 18013-1, it is anticipated will now consider content of part 2 (and potentially part 3 as well)
- AAMVA are also actively marketing 18013 around the motor vehicle administrator community in NA and the recent publication of part 2 is seen as an ideal opportunity to increase awareness of the 18013 series amongst driver license administrators worldwide

Co-operation and Competition

- Regardless of different parentage within JTC1, SCs 6, 17 and 31 each have standards defining a similar air-interface which the market place uses as it finds convenient, e.g.:
 - SC6 ECMA standards on Near Field Communications (NFC)
 - SC17 'Contactless ICCs' in 14443 (PICC) and 15693 (VICC)
 - SC31 RFID standards in 18000
- NFC standards started life based on 14443's protocol but defining a peer-to-peer relationship with both devices powered rather than the master-slave mode of a card reader energising a contactless card
- SC31's ISO/IEC 18000-6c is being deployed by the US at their Mexico and Canadian border crossings, i.e. using an RFID tag to identify people rather than things

Co-operation and Competition

- Both applications now have a vibrant life of their own
- The market does not care which SC produced which standard.
- The wider JTC1 standards are used, the better. And if they are deployed in novel ways that just goes to show how versatile JTC1's base standards are.

Co-operation and Competition

- A closer relationship is already growing with the experts in SC31.
- SC17 was told at its plenary last month that SC31 are looking to reference SC17's 15693 (VICC) rather than duplicate text in 18000-6c, and is looking to harmonize their approach to testing adopting parts of 10373-8 where relevant
- There isn't anything we can do regarding the use for US border crossings of RFID tags for people, though perhaps SC17 and SC31 ought to explore what this means for their respective scopes
- SC17 has responded to SC31's recent NP on 'Air Interface for a file management and security services for RFID' with a liaison statement suggesting SC31 consider using 24727 before inventing anything new

Co-operation and Competition

- A different situation exists between SC17 and SC6 over any possible harmonisation of 14443 with NFC
- NFC standards were developed in ECMA and fast-tracked through SC6
- Whilst SC17 sees an urgent need and we think SC6 sees value in harmonization (though not necessarily sharing our sense of urgency), ECMA who developed the NFC standards appear more reticent
- SC17 plans to offer its assistance to the experts in SC6/WG1 when they undertake the first systematic review of the NFC standards required when they reach their 5 year anniversary since transposition
- Whilst continuing with the formal liaison with SC6, SC17 also plans to explore a relationship with the 'NFC Forum' which represents the commercial companies exploiting NFC

Co-operation and Competition

- As with SCs 6, 17 and 31 having overlapping interests and potentially overlapping scopes in the area of the Air-Interface, so too do SCs 17, 27 and 37 in the area of Personal ID
- SC37 is planning an Amendment to its 24713-3 'Biometric Profiles for Interoperability and Data Interchange - Part 3: Biometric Based Verification and Identification of Seafarer' to include a Contactless chip with a Logical Data Structure (LDS) similar in concept to that used by ICAO for the ePassport
- Provided SC37's NP ballot for their amendment is successful, SC17 has resolved to support the work in SC37 through a liaison between SC17's WG3 and SC37's WG4

Questions ?