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JTC1 SC17 Cards and Personal Identification

Business Plan

Oct 2013 – Oct 2014

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2013-2014

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1 Management summary

1.1 Chairman's Remarks

Will be contained in the chairman's report to the JTC1 plenary.

1.2 JTC1 SC17 Statement of 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

1.3 Project report

Contained in document SC17 N 5092 .

Working group reports

Working group 1 – Physical Characteristics and Test methods for ID cards

2 Co-operation and competition

3 Period review

3.1 Market requirements

3.2 Achievements

3.3 Resources

Internationally renowned experts in the core areas participate regularly in the WG1 meetings. The level of expertise is outstanding and probably unique in this area in the card world.

WG1 relies heavily on two project editors doing the vast majority of the editing work. While, thanks to their substantial commitment, all the necessary work is being done, loss of either of these two would propose a substantial problem for WG1.

3.4 Participation metrics

COMPLETED MEETINGS IN 2013:

2013-03-06..08 Menlo Park, USA

2013-06-25..27 Berlin, Germany

2013-09-30..2013-10-02 Singapore, Singapore

PLANNED MEETINGS IN 2014:

2014-03-04..06 Menlo Park, USA

2014-06-24..26 Tokyo, Japan

WG1 actively participates with the following SC17 working groups.

WG3

WG1 has offered support for the development and maintenance of physical test methods related to passports as deemed suitable and politically achievable.

WG4

WG1 has implemented test methods transferred from 10373-3 into an amendment to 10373- 1 and the majority of the corresponding requirements from 7816-1 into an amendment to 7810. Requirements and test methods are now being integrated into the main parts of these standards.

WG8

WG1 has implemented test methods transferred from 10373-6 and 10373-7 into an amendment to 10373-1 and the majority of the corresponding requirements from 14443-1 into an amendment of 7810. Requirements and test methods are now being integrated into the main parts of these standards.

The equivalent requirements and methods from the 15693 series analogous to those from the 14443 series are also now being integrated into the new versions of 7810 and 10373-1.

WG10

There has been valuable input from WG10 to improve 24789. WG1 much appreciates WG10's regular, constructive and scrutinizing comments related to 24789, which are very valuable to WG1 to improve 24789 for its users.

4 Focus next work period

4.1 Deliverables

7811 "RECORDING TECHNIQUE"

7811-1 "Embossing"

WG1 has completed the review of 7811-1 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

7811-2 "Magnetic stripe - Low Coercivity"

WG1 has completed the review of 7811-2 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

7811-6 "Magnetic stripe - High Coercivity"

WG1 has completed the review of 7811-6 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

7811-7 "Magnetic stripe - High Coercivity, High Density"

WG1 has completed the review of 7811-7 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

7811-8 "Magnetic stripe – Coercivity of 51,7 kA/m (650 Oe)"

WG1 has completed the review of 7811-8 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

7811-9 "Tactile Identifier Mark"

This new part of 7811 was initially published at the end of 2008

WG1 has added an alternate location for TIM, close to the current position, to facilitate co- existence with contactless antennae.

8484 "MAGNETIC STRIPES ON SAVINGSBOOKS"

WG1 has completed the review of 8484 and the document is currently out for DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

10373-1 "TEST METHODS – PART 1: GENERAL CHARACTERISTICS"

WG1 is currently substantially reviewing 10373-1 and plans to ballot it together with 7810 in 2014.

10373-2 "TEST METHODS – PART 2: CARDS WITH MAGNETIC STRIPES"

WG1 has completed the review of 10373-2 and the document has passed DIS ballot. WG1 expects publication of the next edition of the IS in 2014.

15457 "THIN FLEXIBLE CARDS"

15457-1: "Physical Characteristics"

A revised version was published in 2008. The standard is stable and a review has not been considered necessary.

15457-2: "Magnetic Recording Technique"

A revised version was published in 2007. The standard is stable and a review has not been considered necessary.

15457-3: "Test Methods"

A revised version was published in 2008. The standard is stable and a review has not been considered necessary.

24789-1 AND 24789-2 "CARD SERVICE LIFE"

24789-1 was published in April 2012 and 24789-2 was published November 2011.

This is a new two part standard defining a toolbox for evaluating the suitability of a card to sustain a certain service life, that is being usable for a certain amount of time under a range of conditions.

WG1 is continuing collecting data from users of this standard to improve the correlation of test results with field failure rates. WG1 has received feedback from other SC17 WGs and

other users of the standard.

WG1 is currently revising both parts of 24789:

- To more precisely specify when specific tests must be included in the test plan, and in which sequence;
- To more precisely specify the testing parameters of individual methods depending of the characteristics of the card application; and
- To improve existing test methods, and to add new test methods.

18328-2 DEVICES ON CARDS – PART 2: PHYSICAL CHARACTERISTICS

Following a joint meeting with WG4 and WG11 to co-ordinate the work on devices on cards and biometric system on card, WG1 produced a draft of 18328-2 which is currently out for CD ballot.

Communication with WG11 and WG4 is ongoing to ensure the work on Devices on Cards standards and Biometric System on Card standards is co-ordinated.

4.2 Strategies

4.2.1 Risks

Not reported.

4.2.2 Opportunities

Not reported.

4.3 Work programme priorities

DISPLAY ON CARDS

WG1 produced two revisions of a working draft containing physical requirements for cards with a display during this business period.

This draft and the on-going work will be adjusted now to the newly approved NP covering input devices on ICC.

Working group 3 - Machine Readable Travel Documents

1 Co-operation and competition

ICAO

WG3 works collaboratively with ICAO, the Secretariat of ICAO TAG/MRTD and the two working groups established to advance the work programme of the TAG/MRTD, the New Technologies Working Group (NTWG) and the Implementation and Capacity Building Working Group (ICBWG). Furthermore WG3 supports the work of the ICAO PKD Board with technical expertise.

The co-operation concerns the release of a range of Machine Readable Travel Document Standards; i.e. ICAO Doc 9303, the Supplement to Doc 9303, and ICAO Technical Reports, covering a range of travel documents which can be used in lieu of a Passport or Visa to seek entry to a sovereign State

ICAO Doc 9303 has been endorsed through a related publication of a short-form endorsement version of ISO/IEC 7501.

To address its work program WG3 works, besides with ICAO, extensively with Working Groups within SC17, SC27, SC31, SC37, ISO/IEC 3166-MA and international organizations such as INTERPOL, International Organization for Migration (IOM), and Organization for Security and Co-operation in Europe (OSCE).

ISO IEC JTC1 SC17 WG's

WG3 maintains a strong and productive working relationship with several Working Groups within SC17. Beside contributions from WG1 and WG4, specifically WG8 and its Convenor have been major contributors to the work program of WG3.

ISO IEC JTC1 SC31

Members of WG3 work together with SC31/WG1 on drafting a standard for OCR-B quality testing (ISO/IEC 30116).

ISO IEC JTC1 SC37

A number of delegates monitor SC37 for WG3, given the importance of biometrics to eMRTDs.

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ISO IEC JTC1 SC37

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2 Period review

2.1 Market requirements

Issuance of eMRTDs and use of the associated specifications, in whole or in part, to enhance and secure a wide variety of identification documents and ID cards continues to grow. By the end of 2013

approximately 500 million eMRTDs have been issued since its introduction in 2005. As with any large scale implementation numerous maintenance issues require continuous attention.

With validity periods of eMRTDs of 5 to 10 years the implementation of new and revised specifications is a long term effort. As a result security evaluations and revising specifications need to be initiated in a timely fashion, recognizing these implementation time frames.

Critical requirements revolve around the myriad of issues associated with Evidence of Identity and the overall identity management matters confronting all issuing authorities world-wide.

2.2 Achievements

The following achievements were recorded in the business year now ending:

- A guidance document on best practices in Identity Management was published on the ICAO website.
- The Supplement to Doc 9303 Release 12 was published on April 4, 2013.
- A Technical Report on Arabic and Turkish Transliteration in the MRZ and VIZ has been published on the ICAO website.
- Support Capacity-Building Work in Identity Management and Border Security. A number of symposia and seminars have been supported.

2.3 Resources

All work is carried out with voluntary and pro bono resources. This establishes a substantial constraint on the nature of the work that can be accomplished as well as the timeframes. Despite these limitations a significant level of work has been achieved on a year to year basis.

ISO Delegates from Australia, Austria, Canada, France, Germany, Japan, Malaysia, Netherlands, Singapore, United Kingdom and the United States support the work of WG3.

Government experts from Australia, Canada, France, Germany, Netherlands, New Zealand, United Kingdom and the United States, as well as the European Commission support the work of WG3. ICAO experts participate as well.

2.4 Participation metrics

The work of WG3 is very much a collaboration involving Delegates from National Bodies and experts from ICAO, Governments and International Organizations. All participants work together to realize a common set of goals which underpin and ensure global interoperability of Machine Readable Travel Documents.

3 Focus next work period

3.1 Deliverables

The following will form the focus for WG3 over the business period ending September 2014:

- Develop LDS2 specifications based on LDS Version 2 Requirements Technical Report.
- Publish New Release(s) of the Doc 9303 Supplement.
- The restructuring of ICAO Doc 9303.
- Technical Report Standards for Emergency/Temporary Passports
- Advance Test Methodologies towards published Standards.
- Progress Test Methodologies for eMRTD inspection systems.

- Progress Test Methodology to include OCR Quality test specifications.
- Progress work on Facial Image Quality.

3.2 Strategies

The most important aspect of the WG3 strategy is to ensure the continuing interest and support of the voluntary resource base that contribute to the WG3 work program; whether those are delegates from National Bodies, experts from ICAO, Governments or International Organizations.

3.2.1 Risks

The major risks to WG3 accomplishing the objectives it has set for itself in the business period ending September 2013 are:

- Availability of resources and unique skills;
- Time required to address the significant number of tasks in its work program; and
- Timely contributions by Governments and ICAO to establish overall policy direction.

3.2.2 Opportunities

Many of the tasks relate specifically to maintenance of an on-going, globally implemented program, i.e. issuance and inspection of Machine Readable Travel Documents. MRTDs typically have validity periods of 5 or 10 years. As a consequence, many of these tasks must be undertaken with a view to the future and the results must stay effective over a 20 years period (10 years issuance period + 10 years lifetime) to ensure that the Program continues successfully.

3.3 Work programme priorities

The following are the priorities for WG3 in the coming 12 months period:

- Support MRTD Standards Development:
 - Preparation of an ICAO Technical Report Standards for Emergency/Temporary Passports
 - Develop LDS2 specifications based on LDS Version 2 Requirements Technical Report.
 - Publish New Release(s) of the Doc 9303 Supplement.
 - Work on the restructuring of ICAO Doc 9303.
 - Support Capacity Building.
 - Advance Test Methodologies towards published Standards.
 - Progress Test Methodologies for eMRTD inspection systems.
 - Progress Test Methodology to include OCR Quality test specifications.
 - Progress work on Facial Image Quality.
 - Support Capacity Building
 - Support the ICBWG in the initiative towards a MRTD and eMRTD Certification.
 - Provide Guidance on non-conforming certificates.

Working group 4 - Integrated Circuit Cards with Contacts

1 Co-operation and competition

WG4 is the working group responsible for the creation and maintenance of standards used by applications requiring smart card services

- The work was originally focused on the card architecture and the card terminal interface (ISO/IEC 7816-X)
- Since 2004, WG4 has produced new standards to facilitate the interfacing of the smart card with both user (ISO/IEC 12905) and system through a standard middleware (ISO/IEC 24727)
- Since 2010, WG4 is working to standardize the logical interface of application on an IC which supports the usage of electronic devices (e.g. keypad, electronic display) (ISO/IEC 18328)
- WG4 is also providing up-to-date testing methodologies (ISO 10373-X and ISO/IEC 24727-5) in order to improve interoperability and facilitating adoption of its standards by the different card industry sectors

In the next sections are explained the collaborations and links set out by WG4 with ISO, CEN and other relevant standards bodies in the period 2012/2013.

➤ ISO IEC JTC1 SC17 WG's

WG1

WG1 is responsible for part 2 of ISO/IEC 18328 which defines the physical characteristics of devices on cards. Several adhoc meetings and a common meeting WG1/WG4 were organized to find an agreement on the resolution of comments on the two NWIs and to define the scope of part 1 of ISO/IEC 18328.

WG8

During the last period, work made respectively by WG4 and WG8 did not require some specific cooperation.

WG11

The revision of ISO/IEC 7816-11 has started and is being done in close cooperation with WG11. Particularly, a specific command PBO (Perform Biometric Operation) which support ACBIO functions has been created in this part. Moreover, WG11 members attended ad hoc meetings and a common meeting WG1/WG4 to participate to discussion on ISO/IEC 18328. The way to establish requirements for cards with thickness not compliant with ISO/IEC 7810 is being discussed with WG1.

➤ **ISO TC68/SC7**

ISO 12812 (Mobile Financial Services) is composed of six parts and the first CD ballots were issued in 2013. Till now, it does not require some specific cooperation with WG4.

➤ **CEN TC224**

At least, consistency between ISO/IEC 12905 (Enhanced terminal accessibility using cardholder preference interface) and CEN EN 1332-4 (Man Machine interface – coding of user requirement for people with special needs)

➤ **ETSI SCP**

During the last period, work made respectively by WG4 and ETSI SCP did not require some specific cooperation.

➤ **Consortium/forum**

EMVCo

EMVCo has started a work to design a new generation of EMV specification. It could include new transport protocols and impact the WG4 work.

GlobalPlatform

The GlobalPlatform ISO Framework specification proposes a framework based on the GlobalPlatform Card Specification that is compliant with ISO specifications ISO/IEC 7816-13, ISO/IEC 7816-4, and ISO/IEC 24727-2. For this purpose, GlobalPlatform cooperates with some WG4 experts.

2 Period review

2.1 Market requirements

The main market requirements identified by the group may be summarised as follows:

Enhancement of the interchange bearing on card commands, data structures and security in order to take into account the evolvments from two standpoints:

- arising new needs and use cases e.g. powerful Data Objects, privacy protection, embedded devices on/off-card, etc.
- new technologies envisioned by other groups i.e. new secure environment (TEE) by GlobalPlatform, possibly interacting with ISO-compliant Secure Element

the objective being to facilitate standards adoption by industries likely to rely on their interchange features, and to make them up-to-date in the streamline of some outstanding or emerging technologies as much as possible e.g. secure mobile etc.

Amongst the technical features improved in the elapsed period:

- standards to enhance the communication abilities of the card in order for the card:
 - to manage Data Objects in a more efficient way,
 - to send/receive a large volume of data (chaining mechanisms),
 - to support different communication channels both contact and contactless.
- a standard card security architecture for contactless transactions
- enhance the accessibility of card services to both application providers and cardholders by:
 - using a middleware standard,
 - adapting the User Interface to cardholder personal needs.
- enhance Privacy by further protecting the confidentiality of the sensitive data sent or read out of the card.
- develop testing methodologies that facilitate the interoperability of cards with different form factors; especially for contactless transactions (NFC, contactless payment and ID cards).
- facilitate the emergence of new technologies such as electronic display, key button, keyboard, sensors etc embedded on IC cards.

2.2 Achievements

- ISO/IEC 7816-4 published
- ISO/IEC 10373-3 corrigendum published
- ISO/IEC 12905 corrigendum published

2.3 Resources

There was a big involvement of editors and experts particularly due to an important workload.

2.4 Participation metrics

France, Germany, Japan, Spain and USA have participated to all the meetings from the last SC17 meeting.

3 Focus next work period

3.1 Deliverables

We expect a big progress on ISO/IEC 18328 and the revision of ISO/IEC 7816 part 6, 8, 9, 11, 15

3.2 Strategies

Strategic issues include:

- To standardise mechanisms taking into account the security and functional requirements of different industries to enable the issuance of new card platforms providing multi-services (eg. Mobile Payment, contactless authentication protocols).

- To revise/amend published standards and expand the range of interoperable mechanisms for the management of logical data structures and cryptographic objects into the card (e.g data object), for flexibility implementation purposes regardless of the platform technology (JavaCard, Native OS)
- To make WG4 work more visible by a more active participation in forums and conferences to facilitate adoption of WG4 cross-sectorial standards (Governments, Banks, Telecommunication Operators, Public Transport Operators, E-Commerce service providers).
- To further enhance the collaboration with sector-oriented technical committees by promoting the creation of active liaisons to avoid duplication of work or inconsistent specifications.
- To share WG4 document upon technical liaison establishment e.g. with JCF about ICC Managed Devices, so that to allow for the exploitation of interchange ISO specification and its actual implementation i.e. internal API

3.2.1 Risks

- The lifecycle of the standard process is longer than lifecycle of the technology.
- The multiplicity of standardisation initiatives makes it difficult the cross-sectorial approach of WG4.
- Technical complexity of new standards might impair adoption.
- Difficulty of publishing and maintaining test standards.

3.2.2 Opportunities

- WG4 provides the industry with a set of standards required for the specification and testing of smart card based solutions.
- The card security architecture and mechanisms defined by ISO/IEC 7816 are increasingly adopted and referred to by different industries.
- Adoption of WG4 standards facilitate business arrangements between industries (eg, Banking and Telco) for the common offer of services (eg, Mobile Payment).
- New ISO/IEC 7816-4 provides with a great deal of flexibility for the efficient implementation of interoperable cards both file and data-object oriented.
- Standardisation of electronic display, buttons and keyboards on logical as well as physical aspects is likely to facilitate the proposal for new services (PIN checking for contactless transactions, remote authentication, biometric authentication on card ...).
- Boost the contactless card market by standardizing the secure and application layers

3.3 Work programme priorities

- The main priorities for 2013/2014 are:
- Validation of ISO/IEC 7816-4 COR1
- Progress on Devices on card (ISO/IEC 18328)
- Progress on the revision of ISO/IEC 7816-6, 8, 9, 11, 15..

Working group 5 - Issuer Identification Numbers (IINs)/ Application Provider Identifiers (RIDs)

1 Co-operation and competition

Nothing to report.

2 Period review

2.1 Market requirements

Continued demand for IIN's for card issuers is not diminishing. WG5 continues to be the guardian of the continuity and use of this valuable resource.

2.2 Achievements

ISO/IEC 7812 parts one and two are ready for FDIS ballot and should be published in 2013.

2.3 Resources

The American Bankers Association continues to operate the international registration authority. It is well resourced and continues to provide an outstanding service.

2.4 Participation metrics

There is concern over the level of participation of member national bodies particularly in the block balloting process. The secretariat is actively seeking to provide sufficient information to enable P members to vote without resorting to abstention. Responses to questions to the applicant will be published to all members during the block balloting process.

3 Focus next work period

3.1 Deliverables

New edition of ISO/IEC 7812 parts one and two.

3.2 Strategies

3.2.1 Risks

Continued poor participation in the block balloting process.

3.2.2 Opportunities

Publication of best practice documents to assist in the efficient use of the IIN.

3.3 Work programme priorities

Despite the fact that both parts of 7812 were approved unanimously by WG5 and SC17, ISO has halted their publication. The basis of their complaint is a new requirement that any Registration Authority (RA) act independently of any ISO organization. The intent of this separation of duties is to limit any legal liability to the RA and protect ISO, its committees and members from legal action related to a registration activities.

Since its inception of the numbering standard in 1969 the RA has worked in concert with Sponsoring Authorities, Blockholders and the Registration Management Group (SC17/WG5) to facilitate the applications for IINs and blocks of IINs. The removal of those functions from the ISO standards represents a significant change.

WG5 would like to propose a new preliminary work item for 7812, to raise the discussion regarding the next generation of IINs in the payments industry. Given the complexities within the industry due to rapid changes in technology and lower barriers to entry, it is conceivable that the current pool of IINs could be depleted in the next decade. The purpose of the new work item is to bring together industry experts to discuss current and future (known) needs, implications for change and potential solutions for ensuring on-going sustainability of card/account identification.

Working group 8 - Contactless integrated circuit cards

1 Co-operation and competition

Internally to SC17, WG8 cooperates on projects across all working groups where the contactless interface is utilised.

2 Period review

2.1 Market requirements

2.2 Achievements

ISO/IEC 14443-2:2010/Amendment 1

ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 1: Limits of electromagnetic disturbance levels parasitically generated by the PICC** was published on 2011-10-14.

ISO/IEC 14443-3:2011/Amendment 1

Identification cards - Contactless integrated circuit cards - Proximity cards -Part 3: Initialization and anti-collision - **Amendment 1: Electromagnetic disturbance handling and single size UID** was published on 2011-10-14.

ISO/IEC 10373-6:2010/Amendment 9

Identification cards - Test methods - Part 6: Proximity cards - **Amendment 9: Test methods for electromagnetic disturbances** is under publication.

ISO/IEC 14443-1:2008/Amendment 1

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 1: Physical characteristics - **Amendment 1: Additional PICC classes** was published on 2012-04-19.

ISO/IEC 14443-2:2010/Amendment 2

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 2: Additional PICC classes** was published on 2012-07-23.

ISO/IEC 10373-6:2011/Amendment 8

Identification cards - Test methods - Part 6: Proximity cards - **Amendment 8: Additional PICC classes** was published on 2012-04-19.

ISO/IEC 14443-4:2008/Amendment 1

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - **Amendment 1: Exchange of additional parameters** was published on 2012-03-02.

ISO/IEC 10373-6:2011/Amendment 3

Identification cards - Test methods - Part 6: Proximity cards - **Amendment 3: Exchange of additional parameters, block numbering, unmatched AFI and TR2** was published on 2012-07-24.

ISO/IEC 14443-2:2010/Amendment 3

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 3: Bit rates of $fc/8$, $fc/4$ and $fc/2$** was published on 2012-03-05.

ISO/IEC 14443-3:2011/Amendment 2

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - **Amendment 2: Bit rates of $fc/8$, $fc/4$ and $fc/2$ and frame size from 512 to 4096 bytes and minimum TR0** was published on 2012-03-05.

ISO/IEC 14443-4:2008/Amendment 2

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - **Amendment 2: Bit rates of $fc/8$, $fc/4$ and $fc/2$, protocol activation of PICC Type A and frame sizes from 512 to 4096 bytes** was published on 2012-09-07.

2.3 Resources

2.4 Participation metrics

Four WG8 meetings have been held since the last SC17 Plenary Meeting:

- 53rd meeting of WG8 in Paris, France, 2013-01-31/02-01
 - Participation: 21 delegates from 7 countries and 1 Liaison Organization, in detail: Austria 3, France 10, Germany 3, Japan 1, Slovenia 1, Switzerland 1, U.S.A. 1, Visa Europe 1
- WG8 Webex meeting 53.1 held on 2013-03-19, 13:00-15:30 (UTC+02) Participation: 13 delegates from 5 countries and 1 Liaison Organization
- 54th meeting of WG8 in Tokyo, Japan, 2013-06-05/07

- Participation: 28 delegates from 8 countries and 1 Liaison Organization, in detail: Austria 3, France 6, Germany 4, Israel 1, Japan 10, Slovenia 1, U.K. 1, U.S.A. 1, NFC Forum 1.
- 55th meeting of WG8 in Singapore, 2013-09-25/27
 - Participation: 28 delegates from 11 countries, in detail: Austria 3, China 4, France 7, Germany 3, Japan 3, Kenya 1, Singapore 2, Slovenia 1, Switzerland 1, U.K. 1, U.S.A. 2

During that period the Task Force TF2 of WG8, with its Convener Pascal Roux (France), has held three meetings:

- 39th meeting of WG8/TF2 in Paris, France, 2013-01-28/30.
 - Participation: 18 delegates from 8 countries.
- 40th meeting of WG8/TF2 in Tokyo, Japan, 2013-06-03/04.
 - Participation: 26 delegates from 8 countries and 1 Liaison Organization.
- 41th meeting of WG8/TF2 in Singapore, 2013-09-23/24.
 - Participation: 22 delegates from 11 countries.

The Task Force TF3 of WG8, with its Convener Chris Stanford (U.K.) and its Acting Convener Reinhard Meindl (Austria), has held three meetings during that period:

- 14th meeting of WG8/TF3 in London, U.K., 2013-07-09/10.
 - Participation: 6 delegates from 6 countries.
- 15th meeting of WG8/TF3 in Freising, Germany, 2013-09-12.
 - Participation: 7 delegates from 4 countries (2 via phone).
- 16th meeting of WG8/TF3 in Singapore, 2013-09-23/24.
 - Participation: 9 delegates from 5 countries (2 via phone).

3 Focus next work period

3.1 Deliverables

2. ISO/IEC 14443, Proximity cards (PICCs), and its related test methods ISO/IEC 10373-6

2.1 ISO/IEC 14443-1

ISO/IEC 14443-1:2008 (2nd Edition), Identification cards - Contactless integrated circuit cards

- Proximity cards - Part 1: Physical characteristics

(Published on 2008-06-15)

The Systematic Review on that standard led to the decision that it will be revised. A first Working Draft of its 3rd edition will likely be presented at the next WG8/TF2 meeting in end January 2014.

Main task of the revision will be to integrate the following Amendment into it:

Amendment 1: Additional PICC classes

(Published on 2012-04-12)

2.2 ISO/IEC 14443-2

ISO/IEC 14443-2:2010 (2nd Edition), Identification cards - Contactless integrated circuit cards

- Proximity cards - Part 2: Radio frequency power and signal interface

(Published on 2010-09-01)

In order to reduce the number of Amendments to that standard, the three following amendments to ISO/IEC 14443-2:2010 have been editorially integrated into it:

Amendment 1: Limits of electromagnetic disturbance levels parasitically generated by the PICC

(Published on 2011-10-14)

Amendment 2: Additional PICC classes

(Published on 2012-07-23)

Amendment 3: Bit rates of $f_c/8$, $f_c/4$ and $f_c/2$

(Published on 2012-03-05)

That new text of ISO/IEC 14443-2, i.e. its 3rd Edition text, will be sent to the SC17 Secretary. The SC17 Secretariat is asked to initiate its publication with ISO/IEC.

2.3 ISO/IEC 14443-3

ISO/IEC 14443-3:2011 (2nd Edition), Identification cards - Contactless integrated circuit(s)

cards - Proximity cards - Part 3: Initialization and anticollision

(Published on 2011-04-15)

2.4 ISO/IEC 14443-4

ISO/IEC 14443-4:2008 (2nd Edition), Identification cards - Contactless integrated circuit cards

- Proximity cards - Part 4: Transmission protocol

(Published on 2008-07-15)

2.5 ISO/IEC 10373-6

ISO/IEC 10373-6:2011 (2nd Edition), Identification cards - Test methods - Part 6: Proximity cards

(Published on 2011-01-15)

In order to reduce the number of Amendments to that standard, the four following amendments and one Technical Corrigendum to ISO/IEC 10373-6:2011 have been editorially integrated into it:

Amendment 1: Additional PICC classes

(Published on 2012-04-19)

Amendment 2: Test methods for electromagnetic disturbances

(Published on 2012-10-09)

Amendment 3: Exchange of additional parameters, block numbering, unmatched AFI and TR2 (Published on 2012-07-24)

Amendment 4: Bit rates of $f_c/8$, $f_c/4$ and $f_c/2$ and frame size from 512 to 4096 bytes

(Published on 2012-12-05)

Technical Corrigendum 1: R2 value range, start of PICC transmission and program for EMD level measurement

(Published on 2013-08-30)

That new text of ISO/IEC 10373-6, i.e. its 3rd Edition text, will be sent to the SC17 Secretary. The SC17 Secretariat is asked to initiate its publication with ISO/IEC.

2.6 Amendment regarding “Electromagnetic disturbance” (EMD)

ISO/IEC 14443-3:2011/Amd.1, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 1: Electromagnetic disturbance handling and single-size unique identifier

(Published on 2011-10-14)

2.7 Amendments regarding “Exchange of additional parameters”

ISO/IEC 14443-4:2008/Amd.1, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - Amendment 1: Exchange of additional parameters

(Published on 2012-03-02)

2.8 Amendments regarding “Very high bit rate” (VHBR)

2.8.1 VHBR-ASK (Amplitude Shift Keying)

ISO/IEC 14443-3:2011/Amd.2, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 2: Bit rates of $f_c/8$, $f_c/4$ and $f_c/2$ and frame size from 512 to 4096 bytes and minimum TR0

(Published on 2012-03-05)

ISO/IEC 14443-4:2008/Amd.2, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - Amendment 2: Bit rates of $f_c/8$, $f_c/4$ and $f_c/2$, protocol activation of PICC Type A and frame sizes from 512 to 4096 bytes (Published on 2012-09-07)

2.8.2 VHBR-PSK (Phase Shift Keying)

ISO/IEC 14443-2:2010/Amd.5, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - Amendment 5: Bit rates of $3f_c/4$, f_c , $3f_c/2$, $2f_c$ from PCD to PICC

(Will be balloted as FDIS by November 2013)

ISO/IEC 14443-3:2011/Amd.6, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 6: Bit rates of $3f_c/4$, f_c ,

$3f_c/2$, $2f_c$ from PCD to PICC

(Will be balloted as FDIS in October 2013)

ISO/IEC 14443-4:2008/Amd.3, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - Amendment 3: Bit rates of $3f_c/4$, f_c , $3f_c/2$,

$2f_c$ from PCD to PICC

(Published on 2013-10-01)

ISO/IEC 10373-6:2011/Amd.5, Identification cards - Test methods - Part 6: Proximity cards -

Amendment 5: Bit rates of $3f_c/4$, f_c , $3f_c/2$, $2f_c$ from PCD to PICC

(Will be balloted as FDIS in October 2013)

2.9 Amendments regarding “Alternating between PICC and PCD functionalities”

ISO/IEC 14443-3:2011/Amd.3, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 3: Alternating between PICC and PCD functionalities

(Going for publication)

ISO/IEC 10373-6:2011/Amd.6, Identification cards - Test methods - Part 6: Proximity cards -

Amendment 6: Alternating between PICC and PCD functionalities

(Going for publication)

2.10 Amendment regarding “Frame with error correction”

ISO/IEC 14443-4:2008/Amd.4, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - Amendment 4: Frame with error correction

(under FDIS ballot until 2013-12-11)

ISO/IEC 10373-6:2011/Amd.7, Identification cards - Test methods - Part 6: Proximity cards -

Amendment 7: Frame with error correction

(Will be DIS balloted from mid October 2013)

2.11 Amendment regarding "PICCs with external power supply"

ISO/IEC 14443-2:2010/Amd.6, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - Amendment 6: PICCs with external power supply

had passed the CD ballot, but its text is currently being revised in the TF2, as additional specifications are seen as necessary. As soon that development will end, the new text will be balloted as 2nd CD, probably by May 2014.

2.12 Amendments regarding "Handling rules of RFU bits"

ISO/IEC 14443-3:2011/Amd.4, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - Amendment 4: Handling rules of RFU bits

(Will be DIS balloted from mid October 2013)

ISO/IEC 14443-4:2008/Amd.5, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - Amendment 5: Handling rules of RFU bits

(Will be DIS balloted from mid October 2013)

2.13 Amendment regarding "Extension of PICC and PCD test methods"

ISO/IEC 10373-6:2011/Amd.6, Identification cards - Test methods - Part 6: Proximity cards -

Amendment x: Extension of PICC and PCD test methods

(Will be NP+CD balloted by November 2013)

2.14 Technical Corrigendum regarding "Error detection and timing before PICC SOF"

ISO/IEC 14443-3:2011/Cor.1, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision – Technical Corrigendum 1: Error detection and timing before PICC SOF

(Will be balloted in October 2013))

2.15 Technical Corrigendum regarding "Correction of annexes G and H"

ISO/IEC 10373-6:2011/Cor.2, Identification cards - Test methods - Part 6: Proximity cards -

– Technical Corrigendum 2: Correction of annexes G and H

(Will be balloted in October 2013))

2.16 Technical Report TR 18268 on “Multiple PICCs in a single PCD field”

Identification cards — Contactless integrated circuit cards — Proximity cards — Multiple PICCs in a single PCD field

has successfully passed the last ballot step and is expected to be published soon.

2,17 Actual developments of WG8’s Task Force 2 (WG8/TF2)

TF2 is currently developing the following topics:

- Finalisation of a working draft amendment to ISO/IEC 10373-6
 - improvement of PICC and PCD tests in ISO/IEC 10373-6, Annexes G and H
 - R2 Values at Hmax for the 6 Reference PICCs
 - waveform adjustment during PICC tests
 - positioning of PICC antenna during PICC tests
 - cooling period after non destructive maximum field test

- PICCs with external power supply (active modulation)
 - review of the working draft amendment to ISO/IEC 10373-6 and contributions
- WD 10373-6 and 2nd PDAM 14443-2 to be finalised in 2014
- EMD requirements for classes 2, 3, 4, 5 and 6
 - noise floor precondition test: investigation to be continued (to know why some labs have difficulties to pass this precondition test)
 - more contributions needed to define EMD requirements for classes 2, 3, 4, 5 and 6
- Definition of PCD Hmax test in ISO/IEC 10373-6 with all 6 Reference PICCs
 - Waiting for working draft amendments to ISO/IEC 14443-2 and to ISO/IEC 10373-6 from the 2 project editors
- Test plan including all PCD and PICCs requirements from all parts of ISO/IEC 14443
 - Waiting for technical contributions
 - The CEN test plan will be one of these contributions
- Revision of ISO/IEC 14443-1, going for 3rd Edition
- Application Profile for the contactless interface in WD ICAO 9303-10 to be proposed to WG3

3. ISO/IEC 15693, Vicinity cards (VICCs), and its related test methods ISO/IEC 10373-7

3.1 ISO/IEC 15693-1

*ISO/IEC 15693-1:2010 (2nd Edition), Identification cards - Contactless integrated circuit cards
- Vicinity cards - Part 1: Physical characteristics*

(Published on 2010-10-01)

3.2 ISO/IEC 15693-2

*ISO/IEC 15693-2:2006 (2nd Edition), Identification cards - Contactless integrated circuit cards
- Vicinity cards - Part 2: Radio frequency power and signal interface*

(Published on 2006-12-04)

3.3 ISO/IEC 15693-3

*ISO/IEC 15693-3:2009 (2nd Edition), Identification cards - Contactless integrated circuit cards
- Vicinity cards - Part 3: Anti-collision and transmission protocol*

(Published on 2009-04-15)

3,4 ISO/IEC 10373-7

ISO/IEC 10373-7:2008 (2nd Edition), Test methods - Part 7: Vicinity cards

(Published on 2008-05-01)

The Systematic Review on that standard led to the decision that it will be revised. A first Working Draft will be developed in WG8/TF3.

3.5 Amendment regarding “Clarification of data elements”

ISO/IEC 15693-3:2009/Amd.2, Identification cards - Contactless integrated circuit cards - Vicinity cards - Part 3: Anti-collision and transmission protocol - Amendment 2: Clarification of data elements

(Will be NP+CD balloted in October 2013)

3.6 Amendment regarding “Extended VICC memory organization”

ISO/IEC 15693-3:2009/Amd.3, Identification cards - Contactless integrated circuit cards - Vicinity cards - Part 3: Anti-collision and transmission protocol - Amendment 3: Extended VICC memory organization

(Will be NP or NP+CD balloted in December 2013)

3.7 Amendment regarding “Security framework”

ISO/IEC 15693-3:2009/Amd.4, Identification cards - Contactless integrated circuit cards - Vicinity cards - Part 3: Anti-collision and transmission protocol - **Amendment 4: Security framework**

(Will be NP balloted in October 2013)

3.2 Strategies

3.2.1 Risks

Not reported.

3.2.2 Opportunities

Not reported.

3.3 Work programme priorities

WG8 has raised a NP for Test Methods for Machine Readable Travel Documents (WG3). Parts 1 and 2 have been balloted to CD:

Part 1: Durability of the ePassport Booklets

Part 2: Contactless interface

Part 3 will be balloted shortly.

Part 3: Logical Data Structure and PKI protocols

Further parts of this standard will also be developed in the future. Contributors to the work on the above NP includes SC17/WG1, WG4, WG8, SC37.

Working group 9 - Optical memory cards and devices

1 Co-operation and competition

HID Global , Certego GmbH , Challenge Card Design Plastikkarten GmbH, LaserCard Europe

HID and Certego are developing Optical Memory Standards that are of a complimentary nature which we believe currently, not to be in direct competition with any other SC17 working groups.

2 Period review

2.1 Market requirements

We live in a dangerous world and secure identification documents are becoming increasingly important. The total world market for Government ID cards has been estimated to be in excess of \$1 billion. Optical Memory Card Systems, which the WG9 standards address, currently account for less than 10% of this market but both the market share and total market are anticipated to increase with demands for more secure identification cards. Optical Memory Card Systems provide

governments secure ID solutions utilising a decade of technical and program expertise using a combination of technologies to achieve a stable and secure ID System.

2.2 Achievements

WG9 5year Review of its portfolio of Optical Memory Card Standards in both the Linear and Holographic Recording Methods. This work is on-going and current, target and response dates have been met.

2.3 Resources

Within the Optical Memory Card group of experts there are two project editors that ensure WG9 work is both progressive and up-to-date in meeting the targets agreed for the current work period.

2.4 Participation metrics

WG9 has received active participation and support by Germany; USA; UK; Canada; Switzerland and Japan in attendance with a high percentage of 'P' Members responding for the SC17 balloting process.

3 Focus next work period

3.1 Deliverables

WG9 has the following Standards 11694-1/ 11694-2/ 11694-5/ 11694-6 in the final stage of FDIS Ballot and 10373-9 at FCD Ballot. These will be completed on- time.

3.2 Strategies

3.2.1 Risks

None perceived.

3.2.2 Opportunities

WG9 believes the development for an 'add-on optical element' Standard will widen the functionality and market opportunities utilising the basic holographic recording methods with other elements to service newly identified market applications.

3.3 Work programme priorities

The proposed NP/CD: ISO/IEC 11693 Part 3 - Identification Cards - Optical Memory Cards – Authentication technique, was been sent to the SC17 Secretariat for simultaneous NP/CD ballot. It has been posted to the Electronic balloting application and was available under the Balloting Portal, Committee Internal Balloting referenced above.

ISO/IEC 11693 Part 3 - 'Authentication technique' has been introduced as one of a series of the 11693 Optical Memory Card Standards. It defines the parameters for authentication technology when used on Optical Memory Cards. 11693 -3 has been developed within WG9 to provide increased levels of security for ID Cards **that are known to be a target for fraudulent attack.**

Working group 10 - Motor vehicle driver license and related documents

1 Co-operation and competition

WG10 has cooperated and is cooperating with other work groups as necessary. An example includes continuing interaction with WG3 regarding IDL durability. Imminent cooperation with WG4 is also expected related to SC17N4952 (NP ICC protocols and services ensuring privacy). In addition, other work groups are also represented in WG10 (via members participating in multiple work groups), including WG3, WG9, and WG11.

WG10 also has a Category C liaison relationship with the Economic Commission for Europe (ECE) Inland Transport Committee Work Party on Road Traffic Safety (WP.1). WP.1 is responsible for the maintenance of the UN Conventions on Road Traffic, which among others cover international driving licenses. WG10 has been actively using this relationship to try and resolve incompatibilities in driving licence category codes prescribed by WP.1 and by the European Commission.

2 Period review

2.1 Market requirements

ISO/IEC 18013 is already being followed/referenced by a number of countries, including South Africa, Namibia and the United States. The 3rd EU Directive controlling driving licences also now officially references ISO/IEC 18013, specifically as it pertains to the use and certification of "chip cards".

2.2 Achievements

A new work item ballot and CD ballot was simultaneously published for an updated version of ISO/IEC 18013-1. ISO/IEC 18013-3 AMD2 passed a PDAM ballot, and was submitted to the ISO Secretariat for a DAM ballot. As of the date of this report, other ballots in progress included a second PDAM ballot for ISO/IEC 18013-3 AMD3, and a DCOR ballot for ISO/IEC 18013-3 COR2.

2.3 Resources

All formal WG10 positions are currently filled. Resource availability is commensurate with the work being undertaken.

2.4 Participation metrics

Country	Meeting		
	New Orleans, USA, October 2012	Kahului, USA, February 2013	Gemenos, France, June 2013
Austria	1		

Country	Meeting		
	New Orleans, USA, October 2012	Kahului, USA, February 2013	Gemenos, France, June 2013
France	3	3	3
Germany	3	4	4
Japan	4	4	3
Netherlands	1	3	3
South Africa	1	1	1
South Korea	1		
Switzerland	2		1
United Kingdom	2		1
United States	3	5	3

3 Focus next period

3.1 Deliverables

The following deliverables are being planned for the next work period:

- Proceed to the DIS ballot for ISO/IEC 18013-1.
- Publish ISO/IEC 18013-3 AMD2.
- Proceed to the DAM ballot for ISO/IEC 18013-3 AMD3.

3.2 Strategies

3.2.1 Risks

No immediate risks are known at this time.

3.2.2 Opportunities

WG10 remains committed to publicize the workings and benefits of the ISO/IEC 18013 series of standards using its own "marketing" documentation. This material is available to all driving licence issuing authorities.

3.3 Work programme priorities

The priorities of WG10 for the next year are as follow:

- Proceed to the DIS ballot for ISO/IEC 18013-1.
- Publish ISO/IEC 18013-3 AMD2.
- Proceed to the DAM ballot for ISO/IEC 18013-3 AMD3.

Working group 11 - Application of Biometrics to cards and personal Identification

1 Co-operation and competition

Over the years, WG11 has seen active participation from countries like – Australia, Austria, China, France, Germany, Japan, Korea, Singapore, South Africa, Spain, Sweden, UK, and USA. Many of the active participants are also members of SC17 WG4, SC37 “Biometrics” and SC27 “IT Security techniques”. Thus formally and informally, we have active liaison with SC17 WG4, SC27 and SC37. During the development of 24787 “On-card biometric comparison”, we received useful comments from SC37 and SC27. At the same time, 24787 also makes references to standards published by SC17 WG4, SC27 and SC37.

2 Period review

2.1 Market requirements

2.2 Achievements

Produced Defect Report and Technical Corrigendum for ISO/IEC 24787. When finalized, the documents will be submitted to SC17 for ballot. If the Corrigendum is approved, some the changes will need to be incorporated into the revision of ISO/IEC 19794-2 (work item in SC37).

Progress ISO/IEC TR 30117 "Guide to on-card biometric comparison standards and applications" to **PDTR ballot**.

Progress ISO/IEC 17839 "Biometric System-on-Card – Part 1 : Functional Architecture" to **CD ballot**.

Progress ISO/IEC 17839 "Biometric System-on-Card – Part 2 : Physical Characteristics" to WD3. This document will be distributed to SC17 national bodies for comment. In particular, WG11 will work closely with WG10 to improve the text.

2.3 Resources

Resources are adequate for the work currently being undertaken.

2.4 Participation metrics

The following countries have participated from 2005 to 2012:

Australia, Austria, China, France, Germany, Japan, Korea, Singapore, South Africa, Spain, Sweden, UK and the USA.

3 Focus next period

3.1 Deliverables

Development of the revised version of ISO/IEC 7816-4 has just been finished and revision of ISO/IEC 7816-11 has been started. In addition to these standards, the NWI on "Input Devices on ICC and enhancements of electronic displays" has been approved. These three projects have an important impact on the "Logical Information Interchange Mechanism" of Biometrics System-on-Card. Therefore the extension is requested to allow a better alignment of ISO/IEC 17839-3 with these three projects, prior to entering the CD stage.

3.2 Strategies

3.2.1 Risks

Not reported.

3.2.2 Opportunities

Not reported.

3.3 Work programme priorities

Launch a NP ballot on "Test Methods for ISO/IEC 24787 based Applications". Version 3 of the Table of Contents has been finalised and will be attached to this NP ballot.

Produce a liaison statement for SC27. WG11 sees synergy in a number of the work items in SC27 WG5.

ISO/IEC JTC 1/SC 17
Cards and personal identification
Secretariat: BSI (United Kingdom)

Document type: Procedural Documentation

Title: JTC1/SC17 Active Project List

Status: Full information on actives projects can be found using the ISO Project Portal:
<http://isotc.iso.org/pp/search/default.action>

Date of document: 2013-10-14

Expected action: INFO

Email of secretary: Chris.Starr@ukcards.org.uk

Committee URL: <http://isotc.iso.org/livelink/livelink/open/jtc1sc17>

Reference	Document title	Reg. date	Crnt stage	Stage date	Limit date	Time frame	Committee
ISO/IEC DIS 7811-1	Identification cards -- Recording technique -- Part 1: Embossing	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC DIS 7811-2	Identification cards -- Recording technique -- Part 2: Magnetic stripe -- Low coercivity	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC DIS 7811-6	Identification cards -- Recording technique -- Part 6: Magnetic stripe -- High coercivity	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC DIS 7811-7	Identification cards -- Recording technique -- Part 7: Magnetic stripe -- High coercivity,	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC DIS 7811-8	Identification cards -- Recording technique -- Part 8: Magnetic stripe -- Coercivity of 51,7 kA/m (650 Oe)	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC WD 7811-9	Identification cards -- Recording technique -- Part 9: Tactile identifier mark	2012-11-13	20.60	2013-02-23	2014-05-13	36	ISO/IEC JTC 1/SC 17/WG4
ISO/IEC FDIS 7812-1	Identification cards -- Identification of issuers -- Part 1: Numbering system	2010-06-01	50.60	2013-03-14		36	ISO/IEC JTC 1/SC 17/WG 5
ISO/IEC FDIS 7812-2	Identification cards -- Identification of issuers -- Part 2: Application and registration	2010-06-01	50.60	2013-03-14		36	ISO/IEC JTC 1/SC 17/WG 5
ISO/IEC CD 7816-6	Identification cards -- Integrated circuit cards - Part 6: Interindustry data elements for	2013-07-12	30.60	2013-09-14	2015-01-12	36	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC 7816-12:2005/CD Cor 1	Identification cards - Integrated circuit cards -- Part 12: Cards with contacts -- USB electrical interface and operating procedures -- Technical Corrigendum 1	2013-02-22	30.60	2013-09-17	2014-08-22	36	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC 7816-13:2007/CD Cor 1	Identification cards -- Integrated circuit cards - Part 13: Commands for application management in a multi-application environment -- Technical Corrigendum 1	2009-06-05	30.99	2009-09-08			ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC DIS 8484	Information technology -- Magnetic stripes on savingsbooks	2012-08-11	40.00	2013-08-19	2014-02-11	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC DIS 10373-2	Identification cards -- Test methods -- Part 2: Cards with magnetic stripes	2012-06-22	40.60	2013-08-29	2014-12-22	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC CD 10373-5	Identification cards -- Test methods -- Part 5: Optical memory cards	2013-02-25	30.99	2013-06-06	2014-08-25	36	ISO/IEC JTC 1/SC 17/WG 9

ISO/IEC 10373-6:2011/FDAmD 5	Identification cards -- Test methods -- Part 6: Proximity cards -- Amendment 5: Bit rates of 3fc/4, fc, 3fc/2 and 2fc from PCD to PICC	2011-07-08	50.20 (\$	2013-10-02		48	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 10373-6:2011/DAmD 6	Identification cards -- Test methods -- Part 6: Proximity cards -- Amendment 6: Alternating between PICC and PCD functionalities	2012-04-23	40.60	2013-03-09	2014-10-23	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 10373-6:2011/PDAM 7	Identification cards -- Test methods -- Part 6: Proximity cards -- Amendment 7	2013-09-19	30.99	2013-09-19	2015-03-19	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC CD 11693-3	Identification cards -- Optical memory cards -- Part 3: Authentication techniques	2013-10-02	30.99	2013-10-02	2015-04-02	36	ISO/IEC JTC 1/SC 17
ISO/IEC CD 11694-4	Identification cards -- Optical memory cards -- Linear recording method -- Part 4: Logical data structures	2011-12-07	30.60	2012-04-28	2013-06-07 (Ca	36	ISO/IEC JTC 1/SC 17/WG 9
ISO/IEC DIS 11694-5	Identification cards -- Optical memory cards -- Linear recording method -- Part 5: Data format for information interchange for applications using ISO/IEC 11694-4	2011-12-07	40.60	2013-08-19	2014-06-07	36	ISO/IEC JTC 1/SC 17/WG 9
ISO/IEC DIS 11694-6	Identification cards -- Optical memory cards -- Linear recording method -- Part 6: Use of biometrics on an optical memory card	2011-12-07	40.60	2013-08-19	2014-06-07	36	ISO/IEC JTC 1/SC 17/WG 9
ISO/IEC CD 11695-1	Identification cards -- Optical memory cards -- Holographic recording method -- Part 1: Physical characteristics	2013-08-29	30.20 (\$	2013-09-12	2015-02-28	36	ISO/IEC JTC 1/SC 17/WG9
ISO/IEC CD 11695-2	Identification cards -- Optical memory cards -- Holographic recording method -- Part 2: Dimensions and location of accessible	2013-08-29	30.20 (\$	2013-09-12	2015-02-28	36	ISO/IEC JTC 1/SC 17/WG9
ISO/IEC DIS 11695-4	Identification cards -- Optical memory cards -- Holographic recording method -- Part 4: Logical data structures	2009-04-15	40.98	2013-05-03	2012-10-15 (Ca	48	ISO/IEC JTC 1/SC 17/WG9
ISO/IEC 14443-2:2010/DAmD 5	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 2: Radio frequency power and signal interface -- Amendment 5: Bit rates of 3fc/4, fc, 3fc/2 and	2011-07-08	40.60	2013-07-18	2014-01-08 (Ca	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-2:2010/PDAM 6	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 2: Radio frequency power and signal interface -- Amendment 6: PICC's with external power	2012-10-12	30.60	2013-01-14	2014-04-12	36	ISO/IEC JTC 1/SC 17/WG 8

ISO/IEC 14443-3:2011/CD Cor 1	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 3: Initialization and anticollision -- Technical	2013-09-30	30.00	2013-09-30	2015-03-31	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-3:2011/DAMd 3	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 3: Initialization and anticollision -- Amendment 3: Alternating between PICC and PCD	2012-01-26	40.60	2013-03-09	2014-07-26	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-3:2011/PDAM 4	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 3: Initialization and anticollision -- Amendment	2013-09-27	30.99	2013-09-27	2015-03-27	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-3:2011/DAMd 6.2	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 3: Initialization and anticollision -- Amendment 6: Bit rates of 3fc/4, fc, 3fc/2 and 2fc from	2011-07-08	40.99	2013-10-10	2014-01-08 (Ca	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-4:2008/FDAMd 4	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 4: Transmission protocol -- Amendment 4: Frame with error correction	2012-08-10	50.20 (\$	2013-09-12		36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC 14443-4:2008/PDAM 5	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 4: Transmission protocol -- Amendment 5	2013-09-27	30.99	2013-09-27	2015-03-27	36	ISO/IEC JTC 1/SC 17/WG 8
ISO/IEC DIS 17839-1	Information Technology -- Biometric System-on-Card -- Part 1: Functional Architecture	2012-01-26	40.20 (\$	2013-09-19	2014-07-26	36	ISO/IEC JTC 1/SC 17/WG11
ISO/IEC CD 17839-2	Information technology -- Identification cards - Biometric system on card -- Part 2: Physical characteristics	2012-04-09	30.60	2013-09-29	2014-04-09 (Ca	48	ISO/IEC JTC 1/SC 17/WG11
ISO/IEC WD 17839-3	Information technology -- Identification cards - Biometric system on card -- Part 3: Logical information interchange mechanism	2012-04-09	20.60	2013-01-17	2015-04-09	Extended	ISO/IEC JTC 1/SC 17/WG11
ISO/IEC CD 18013-1	Information technology -- Personal identification -- ISO-compliant driving licence - Part 1: Physical characteristics and basic	2013-06-19	30.99	2013-06-20	2014-12-19	36	ISO/IEC JTC 1/SC 17/WG 10
ISO/IEC 18013-3:2009/CD Cor 2	Information technology -- Personal identification -- ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation -- Technical Corrigendum	2013-07-11	30.20 (\$	2013-07-13	2015-01-11	36	ISO/IEC JTC 1/SC 17/WG 10

ISO/IEC 18013-3:2009/DAmD 2	Information technology -- Personal identification -- ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation -- Amendment 2:	2011-11-04	40.00	2013-08-26	2013-05-04	36	ISO/IEC JTC 1/SC 17/WG10
ISO/IEC 18013-3:2009/PDAM 3	Information technology -- Personal identification -- ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation -- Amendment 3: PACE	2012-11-13	30.20 (\$	2013-08-26	2014-05-13	36	ISO/IEC JTC 1/SC 17/WG10
ISO/IEC 18013-4:2011/CD Cor 1	Information technology -- Personal identification -- ISO-compliant driving licence - Part 4: Test methods -- Technical	2012-09-27	30.60	2012-12-30	2014-03-27	36	ISO/IEC JTC 1/SC 17/WG 10
ISO/IEC DTR 18268	Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Multiple PICCs in a single PCD field	2012-04-13	40.60	2013-09-13	2014-10-13	36	ISO/IEC JTC 1/SC 17/WG8
ISO/IEC NP 18328-1	Devices on cards -- Part 1: General framework	2013-07-10	10.99	2013-07-10	2015-01-10	36	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC CD 18328-2	Devices on cards -- Part 2: Physical characteristics	2013-07-10	30.20 (\$	2013-07-11	2015-01-10	36	ISO/IEC JTC 1/SC 17/WG 1
ISO/IEC NP 18328-3	Devices on cards -- Part 3: Organization, security and commands for interchange	2013-07-10	10.99	2013-07-10	2015-01-10	36	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC AWI 18584	Information technology -- Identification cards -- Test methods for on-card biometric applications	2013-02-11	20.00	2013-03-15	2015-02-11	48	ISO/IEC JTC 1/SC 17/WG11
ISO/IEC FDIS 18745-1	Information technology -- Test methods for machine readable travel documents (MRTD) - Part 1: Physical test methods for passport books (durability)	2012-08-03	50.20 (\$	2013-09-12		36	ISO/IEC JTC 1/SC 17/WG3
ISO/IEC CD 18745-2	Information technology -- Test methods for machine readable travel documents (MRTD) - Part 2: Test methods for the contactless	2012-08-03	30.60	2013-04-12	2014-02-03 (Ca	36	ISO/IEC JTC 1/SC 17/WG3
ISO/IEC CD 18745-3	Information technology -- Test methods for machine readable travel documents (MRTD) - Part 3: LDS and security protocols	2012-08-03	30.99	2012-08-03	2014-02-03 (Ca	36	ISO/IEC JTC 1/SC 17/WG3
ISO/IEC PDTR 18781	Washing Machine Test Method Draft	2013-08-16	30.00	2013-08-16		36	ISO/IEC JTC 1/SC 17/WG1
ISO/IEC PDTR 19446	ISO-Compliant Driving Licence -- European driving licence -- Application profile	2013-09-04	30.20 (\$	2013-09-04		24	ISO/IEC JTC 1/SC 17/WG10

ISO/IEC DIS 24727-1	Identification cards -- Integrated circuit card programming interfaces -- Part 1:	2012-06-20	40.99	2013-03-21	2014-12-20	36	ISO/IEC JTC 1/SC 17/WG10
ISO/IEC 24727-2:2008/PRF Amd 1	Identification cards -- Integrated circuit card programming interfaces -- Part 2: Generic card interface -- Amendment 1	2010-01-27	50.00	2013-09-25	2013-11-22	Extended	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC 24727-3:2008/FDAmd 1	Identification cards -- Integrated circuit card programming interfaces -- Part 3: Application interface -- Amendment 1: .	2010-01-27	50.20 (\$	2013-10-01	2015-01-27	48	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC 24727-4:2008/FDAmd 1	Identification cards -- Integrated circuit card programming interfaces -- Part 4: Application programming interface (API) administration -- Amendment 1: .	2010-01-27	50.20 (\$	2013-10-01	2014-01-01	Extended	ISO/IEC JTC 1/SC 17/WG 4
ISO/IEC DTR 30117.2	Information technology -- Guide to on-card biometric comparison standards and	2011-06-28	40.60	2013-09-13	2014-12-28	48	ISO/IEC JTC 1/SC 17/WG11