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BUSINESS PLAN FOR JTC1/SC17 CARDS AND PERSONAL IDENTIFICATION

PERIOD COVERED: November 2010 – October 2011

SUBMITTED BY: Secretariat of SC17 Mr C I Starr

1 MANAGEMENT SUMMARY

1.1 CHAIRMAN'S REMARKS

None.

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.

The scope has been reviewed at the SC17 Plenary meeting in Takamatsu, Japan 2010-10-06 to 2010-10-08.

1.3 PROJECT REPORT

Active projects complete with target dates is available via the ISO Project Portal:

<http://isotc.iso.org/pp/search/default.action>

1.4 CO-OPERATION AND COMPETITION

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

ISO/IEC JTC1 SC17 WG1 is the central working group for the creation and maintenance of standards used by applications requiring the use of identification cards.

Due to multiple technologies being today often hosted on a single card, some physically oriented requirements from technology specific requirements and test methods have been moved into ISO/IEC 7810 and the related test method standard, ISO/IEC 10373-1.

WG1 has historically focused on the characteristics of ID cards at the time of issuance, manifested in the standard underlying most card applications, ISO/IEC 7810, WG1 has over the past couple of years heavily worked on addressing a broader part of the card's lifecycle through the upcoming standards 24789-1 and -2.

The two issues above have resulted in a closer exchange with other WG's within SC17.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

SC17 Working Group 3 (WG3) was set up to consider a number of specific standards related to machine readable passports (MRPs), as well as provide liaison between JTC1 and the International Civil Aviation Organization (ICAO) for ICAO Doc 9303, Part 1, the ICAO Standard defining technical specifications for MRPs. ICAO Doc 9303 is maintained by a Technical Advisory Group on Machine Readable Travel Documents (ICAO TAG/MRTD).

Governed initially by the liaison formula defined in Resolutions 178, 179, and 181 of the 1989 Plenary of SC17 and after 1994 by the liaison formula defined in Resolution 291 of the 1994 Plenary of SC17, WG3 has collaborated with ICAO in the release of a range of Machine Readable Travel Document Standards; i.e. Part 1 of ICAO Doc 9303 (Machine Readable Passport), Part 2 of ICAO Doc 9303 (Machine Readable Visa) and Part 3 of ICAO Doc 9303 (Machine Readable Official Travel Documents, covering a range of travel documents which can be used in lieu of a Passport or visa to seek entry to a sovereign State) each of which has been endorsed through a related publication of a short-form endorsement version of ISO/IEC 7501-1, ISO/IEC 7501-2 and ISO/IEC 7501-3 respectively.

In recent years WG3 has collaborated with ICAO on the development and publication of standards for a new generation of contactless chip and biometric-enabled travel documents (e.g. eMRP, eMRTD).

To address its work program WG3 works extensively with ICAO, working groups established by ICAO TAG/MRTD, Working Groups within SC17, SC27, SC37, ISO/IEC 3166-MA and international organizations such as INTERPOL, International Organization for Migration (IOM), Organization for Economic Co-operation and Development (OECD) 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 many of the Working Groups within SC17. WG8 and its Convenor have been major contributors to the work program of WG3. WG4 and WG1 have also contributed.

- ISO IEC JTC1 SC37

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

- 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. Collaboration at the working group level is as follows:

- ICAO New Technologies Working Group ('NTWG')

During the business period ending September 2010 and continuing throughout the one year business period starting October 2010,

WG3's Task Force on New Technologies, Task Force 1 (TF1), focused its support of NTWG in the following areas:

- Revision of the Logical Data Structure (LDS) Technical Report
- Better Practice in National Identity Management
- Electronic Immigration Clearances
- Maintaining the Doc 9303 Supplement
- Placement of Data on TD-1 Cards
- G8 Project on the Use of ePassports in Border Processing
- Machine Assisted Document Security Verification
- Standards for Emergency/Temporary Passports

WG3's Task Force on 9303 and 7501 Editorial Drafting, Task Force 2 (TF2), focused on planning for the drafting of new Editions of all three Parts of ICAO Doc 9303. Drafting will primarily embrace integrating the contents of the Doc 9303 Supplement into new Editions of the series of ICAO Doc 9303 Standards ("Supplement clean-up activity").

WG3's Task Force on Application Issues, Task Force 3 (TF3), focused on developing specifications governing Arabic transliteration in the machine readable and visual inspection Zones of an MRTD; i.e. MRZ and VIZ respectively.

WG3's Task Force on Test Methodology, Task Force 4 (TF4), focused on test methodology development.

WG3's Task Force on Data Structure and Security Schema for eMRTDs, Task Force 5 (TF5), worked closely with the NTWG on e-Passport Data Structures and Security issues. For this reason TF5 meetings are generally attended by both industry (ISO) representatives as well as government (ICAO) experts. TF5 activities support the NTWG in the following areas:

- Development of "Supplemental Access Control"
- LDS/PKI Maintenance
- Guidance on non-conforming certificates
- Implementation and Capacity Building Working Group (ICBWG)

During the business period ending September 2010 and continuing throughout the one year business period starting October 2010,

WG3's Task Force on Application Issues, Task Force 3 (TF3), focused its support of ICBWG in the following areas:

- Capacity-building Work in Identity Management and Border Security
- Breeder Documents; and
- MRTD and eMRTD Certification

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

ISO JTC1 SC17 WG4 is the central working group responsible for the creation and maintenance of standards used by applications requiring smart card services. Whilst originally focused on the card architecture and the card terminal interface, since 2004 the WG4 has enlarged its perimeter by

producing new standards to facilitate the interfacing of the smart card with both the user (ISO/IEC 12905) and the system through a standard middleware (ISO/IEC 24727).

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.

Next sections explain the collaborations and links set out by WG4 with ISO, CEN and other relevant standards bodies in the period 2009/2010.

- ISO IEC JTC1 SC17 WG's

WG1: During 2010 WG4 continued to ensure the maintenance of the ISO/IEC 10373-X series of testing standards complementing WG1 activity in the area of physical testing and durability. In particular ISO/IEC 7816-1, ISO/IEC 10373-3 and ISO/IEC 10373-8 are to be published by the end of this year.

WG8: WG4 creates the applicative and security-oriented layers that can be used on top of ISO/IEC 14443 compliant cards. During the on-going revision process of ISO/IEC 7816-4, WG4 is enhancing several commands (eg. GENERAL AUTHENTICATE APDU) to support in a more efficient way protocols required for contactless transactions. This work is to be completed during the revision process of ISO/IEC 7816-8 once ISO/IEC 7816-4 revision process is done.

WG10: Is currently focusing on physical securities in card body, and therefore WG4 expertise was less relevant during the last period.

WG11: After a continuous collaborative effort during the drafting process of ISO/IEC 24787, a common WG4-WG11 meeting took place in april in London. During this meeting WG4 experts agreed on the terms of ISO/IEC FCD 24787 so that this standard moved to the final FDIS ballot. During this meeting the scope of the future revision of ISO/IEC 7816-8 (eg. new Perform Biometrics Operation APDU) and ISO/IEC 7816-11 was considered to avoid gaps and overlaps with ISO/IEC 24787.

WG4 experts, J. Riddell and L. Gaston have acted as official liaisons between WG11 and WG4.

- ISO IEC JTC1 SC27

WG4 is currently in the process of specifying how to map SC27 WG2 algorithms and authentication protocols using both ISO/IEC 7816-4 APDUs and Data Objects and 24727 middleware primitives (24727-3 and 6).

ISO/IEC FCD 24745, biometric template protection, requires compliance with ISO/IEC 7816-4 when the card stores the user biometrics reference.

Finally, the first technical contributions submitted for the SC27-WG2 on-going series of standards ISO/IEC 18033-X on « Lightweight Cryptographic Mechanisms » make use of protocols that will be mapped using ISO/IEC 7816 commands (eg. ALiKE protocol).

Notice that WG4 experts participate in ISO IEC SC27/WG2 and WG5 work.

- ISO TC68

A NWIP for a standard on Mobile Banking/Payments has just been approved. The secure element storing the payment application should be supporting ISO/IEC 7816 commands and data structures for interoperability and legacy purposes. One of the items to be standardized is an API for access to mobile financial services in the mobile handset. ISO/IEC 24727 could be considered as a possible candidate for this API.

WG4 experts have been appointed to participate in this future standard.

- CEN TC224

WG6 (user Interface): The WG4 on-going ISO/IEC 12905 FCD Enhanced Terminal Accessibility extends and is back compatible with existing WG6 standards EN 1332-4 and CWA 13987. This back compatibility has been made possible because of the common work of WG4 and CEN TC224 experts.

WG15 (European Citizen Card- ECC): has delivered the final draft of ECC-3 which is an extension of ISO/IEC 24727 adapted to ID cards. Amendments to ISO/IEC 24727 have been approved for the final alignment of ISO and CEN standards.

Notice that ECC-4 will contain a profile compliant with ISO/IEC 12905 that will facilitate the issuance of ID cards personalized with citizen preferences.

WG16 (Electronic Signature using a Smart Card): The on-going amendments on EN 14890 parts 1 and 2, require the extension of some existing ISO/IEC 7816-4 and 7816-8 cryptographic commands. An agreement has been reached in order to extend the General Authenticate APDU for that purpose.

- ETSI SCP

ETSI SCP elaborates SIM card standards based on ISO/IEC 7816. In particular, the new USB technologies adopted by ETSI will require the revision of ISO/IEC 7816-12 (USB Interchip, low voltage USB).

The publication of ISO/IEC 10373-8 (USB card testing) is facilitating the on-going work of ETSI SCP for SIM/UICC USB functional testing procedures.

- Consortium/forum

USB Implementers Forum (USB-IF): The USB-IF smart card group has published the USB-ICC specification. ISO/IEC 7816-12 revision process to be started should align with the new functionalities (USB Interchip) of the USB-IF.

EMVCo: Any ISO/IEC 7816 evolution must take into account legacy issues for systems compliant with EMVCo. Notice that the new Technical Associates Program launched by EMVCo, shall reinforce the collaboration between the card manufacturers and EMV members and enable a better alignment of cross-sector standards with card payment specifications.

Global Platform: GP authentication protocols have been included in the ISO/IEC 24727-3. Any requirement from GP will be considered when initiating the revision of ISO/IEC 7816-13.

WG5 – REGISTRATION MANAGEMENT GROUP

WG5 is the Registration Management Group RMG established by ISO/IEC JTC 1/SC 17 to act on its behalf in managing the registration and assignment of Issuer Identification Numbers IIN's as defined in ISO/IEC 7812. Additionally this working group acts as the RMG for the issuance of RID's as defined in ISO/IEC 7816 part 5. The working group is also charged with revisions and maintenance to ISO/IEC 7812 parts 1 and 2.

Constantly developing transaction methodologies are expanding the demand for numbering schemes managed by ISO/IEC 7812. The basic standard that is the framework we all work in was written to manage a hand full of card brands at a time when the internet didn't even exist and virtually every card was embossed plastic with a magnetic stripe. In the past 10 years we have seen a change in payment technology that was greater than the leap from Gold to Plastic. The ability to interact with external networks no longer has to have any physical bounds. Additionally, convenience and security make greater cases for these virtual accounts every day.

We cannot risk being flooded with requests for IIN's that are not warranted, and we must not turn away valid requests for them. To do either risks making our standard irrelevant forcing the industry to create its own standard. Therefore WG5 has an increasing need to communicate with other ISO Working Groups and Standards Bodies to ensure their standard solutions, including security, interfaces and protocols do not adversely affect the numbering scheme by increasing demand unnecessarily.

WG5 is made up of national bodies that do not necessarily have expertise in all of the related standards. All are experts on ISO/IEC 7812, but not necessarily experts on related technologies such as smart card, mobile banking and financial communications.

WG5 welcomes the opportunity to liaise with any Sub Committee, Working Group, Consortium or Forum that has impact on these standards. We need to have a co-awareness of each other's standards and mission to ensure we are both successful.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

ISO JTC1 SC17 WG9 is the working group responsible for the creation and maintenance of standards for applications utilising optical memory card technologies. WG9 standards originally focused solely on linear optical recording with the series 11693 and 11694 Parts 1- 6.

In the past year it has developed a standard 11693-2 for the 'Coexistence of Optical Memory with other machine- readable technologies' this has been achieved with the co-operation of SC17 WG1. WG9 has also developed a series of standards 11695 Parts 1 – 4 for optical memory card technology using holographic recording methods.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

WG10 has cooperated and is cooperating with other work groups as necessary. A recent example includes interaction with WG1 regarding ISO/IEC 24789. In addition, other work groups are also represented in WG10 (via members with dual work group participation), including WG3, WG4, 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.

WG11 – APPLICATION OF BIOMETRICS TO CARDS AND PERSONAL IDENTIFICATION

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

WG1 - PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

- Magnetic Stripe Technology:

Requirement: Magnetic stripe technology is widely in use for a long time now but still going strong. The market requires proper maintenance of the standards and the primary and secondary references.

Response: WG1 maintains the standards defining magnetic stripe technology and has successfully supervised the transfer of the primary standards and the source for secondary standards from PTB in Germany to Q-Card in the US, following PTB's announcement that it can no longer host the primary standard and provide secondary reference cards.

- Card reliability and durability:

Requirement: Driven by both maturing of the classic card markets and an increasing number of applications with longer expected card life, the market requires standardized methods to assess the potential lifetime performance of different card construction.

Response: WG1 develops the standards 24789-1 and -2, containing test methods to assess the potential lifetime performance of card constructions and a framework of how to use the methods to determine the longevity of a card.

- Structure of Standards, content of base standards ISO/IEC 7810 and ISO/IEC 10373-1

Requirement: Requirements on the physical aspects of a card were distributed over a group of standards within SC17's domain, creating some difficulty in maintenance and application. With the number of standards under SC17's control growing, the market needs some consolidation of the information.

Response: WG1 has in close co-operation with WG4 and WG8 integrated various physical requirements and the related test methods into amendments to ISO/IEC 7810 and ISO/IEC 10373-1 and is now working on a further integration of such requirements into these standards.

- Other technologies covered by WG1 standards:

Requirement: The market requires standards to represent state-of-the-art and to address currently utilised technologies.

Response: WG1 regularly reviews the standards under its control and thanks to strong participation from the industry, continuously adjusts their content to reflect new experience from the field and foresees withdrawal of standards where technologies are not or are no longer used.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

Issuance of eMRPs and 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. As with any large scale implementation numerous maintenance issues require focus.

The most critical requirements at the moment revolves around the myriad of issues associated with Evidence of Identity and the overall identity management matters confronting all issuing authorities world-wide.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

The work on ISO/IEC 24727 series was achieved in 2010 with the publication of last part of ISO/IEC 24727 series: 24727-5 (test methods). A set of amendments has been launched in order to enhance functionalities.

The work for the revision of the 2004 version of ISO/IEC 7816-4 has started. It will be an important part of the WG4 work in the period 2010/2011.

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

- Standards to enhance the communication abilities of the card in order for the card:
 - 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).
 - Standard Biometrics Authentication using different mechanisms (full on-card, partial on-card, off-card).

WG8 - CONTACTLESS INTEGRATED CIRCUIT(S) CARDS, RELATED DEVICES AND INTERFACES

NP on “PICCs with external power supply”

WG8 agreed on an NP for amendments to ISO/IEC 14443 and 10373-6, which deals with a backward compatible modulation method that makes use of an external power supply provided independently of the 14443 generated field energy. The resulted standard will be e.g. applicable for mobile phones, which either are equipped with an antenna of “Class 3” or smaller, and thus normally operate a weaker magnetic field compared with a “Class 1” antenna field available with ID-1 cards. The consequence is that mobile phones with very small 14443 antennas, either built-in or externally provided e.g. via a micro SD card, function maximally similar like usual ID-1 cards. Also SC6 and the NFC Forum may benefit from the result of that standardization project, once the NFC standards will become harmonized.

Harmonization of ISO/IEC 14443 and NFC standards

After a one-year-study-group period in 2009 SC6/WG1 established an ad hoc group on harmonization of ISO/IEC 14443 and NFC in early 2010. That group is chaired by the Co-Conveners Mr. Reinhard Meindl and Mr. Yoshihisa Takayama.

The progress of the harmonization can be seen positive and going into the right direction. It is hoped that the revised versions of ISO/IEC 18092 and 21481, plus related test methods, to be balloted under the usual ISO/IEC conditions, will be sufficiently defined, so that they can be applied e.g. to mobile phones, which are then able to act not only in modes defined in NFC, but also to act as a 14443 card (PICC) or a 14443 reader (PCD).

In order to improve the harmonization situation, SC17 decided at its plenary in 2008 that the WG8 Convener should get in contact with the NFC Forum Chairman for investigating possibilities for the establishment of a Liaison between the NFC Forum and SC17. That investigation has become close to an end so that the establishment of that Liaison is likely to be realized by the end of 2010.

Specifying the specific needs of mobile devices using the 14443 interface

WG8 asks Mr. Rune Lindholm (Finland) and its Convener to investigate possible needs for mobile devices when using 14443, e.g. in its special capability to play the role of either a PICC or a PCD, and to prepare an NP for a related standardization activity. That draft NP will be circulated within the WG8 members for comments, before deciding to forward it to the SC17 Secretariat for NP balloting process.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

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

- Standards to enhance the integration of highly counterfeit-resistant optical security media with other mainstream machine-readable card technologies on a single ID card, addressing the needs of government ID programs around the world.
- Develop testing methodologies for compliance checking with standard.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

The three published parts of ISO/IEC 18013 (i.e. Parts 1, 2 and 3) are already being followed/referenced by a number of countries, including South Africa, Namibia and the United States.

An Expert Working Group of the European Commission's DGTREN Driving Licence Committee has adopted ISO/IEC 18013, specifically as it pertains to the use of "chip cards". This adoption is reflected in a draft amendment to the 3rd EU Directive controlling driving licences.

2.2 ACHIEVEMENTS

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

WG1 made the following major achievements during the past year:

- Completing work on card durability to ballot of FCD.
- Publishing amendments to 7810, consolidating physical requirements from various standards into 7810, the base standard for ID cards and the equivalent of test methods into 10373-1.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

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

- Revision of the Logical Data Structure. ICAO Technical Report Strategy developed and TR drafting is underway.
- Towards Better Practice in National Identity Management. Sub-group has been established, terms of reference defined, the scope of the project and content of the ICAO TR has been agreed. Project leadership has been assigned.
- Supplemental Access Control. The content of the ICAO TR has been agreed and is ready for approval for implementation.
- Maintaining Doc 9303 Supplement. Edition Eight was published and work is now underway on Edition Nine.
- Integrating Supplement Information into Doc 9303. A first draft of the "Supplement clean-up" Technical report has been drafted.
- Electronic Immigration Clearances. Agreement was reached on the scope and terms of reference as well as the nature of the areas of focus for the project.
- Machine Assisted Document Security Verification. Draft paper has been accepted and the content of the TR has been approved for presentation at next ICAO TAG/MRTD Meeting.
- Standards for Emergency/Temporary Passports. Work progresses toward the specifications for incorporation into the next issue of the Supplement and to then be include in a new Edition of Part 1 of Doc 9303.
- Guidance on Non-Conforming Certificates. Work has begun on a ICAO Guidance Report. Publication is imminent.
- Arabic Transliteration in the MRZ and VIZ. The technical work has been completed. The decision to adopt a scheme or not include specifications for Arabic transliteration can now be taken.
- Support Capacity-Building Work in Identity Management and Border Security. A number of workshops, seminars and missions have been supported.

- Breeder Documents. A sub-group has been formed in collaboration with ICBWG and initial consideration of the issue has been undertaken.
- MRTD and eMRTD Certification. A sub-group has been formed in collaboration with ICBWG and initial proposals have been made for consideration.
- Supported INTERPOL in the identification and assignment of a Alpha-2 Country Code. WG3 assisted INTERPOL identify and reserve an Alpha-2 Code required by INTERPOL to meet its PKD obligations when issuing an INTERPOL eMRTD.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

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

- ISO/IEC 12905 is being FCD balloted.
- ISO IEC 7816-1, 10373-3, 10373-8 and 24727-5 have the FDIS status.
- ISO/IEC 20060 has the IS status.

WG8 - CONTACTLESS INTEGRATED CIRCUIT(S) CARDS, RELATED DEVICES AND INTERFACES

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

- ISO/IEC 14443-2: 2010 (2nd Edition) Identification cards – Contactless integrated circuit cards – Proximity cards – Part 2: Radio frequency power and signal interface was published.
- ISO/IEC 10373-6:2001- Identification cards - Test methods - Part 6: Proximity cards - Amendment 7: Test methods for ePassport was published on 2010-03-15.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

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

- WG9 ISO IEC 10373-9 at CD Ballot
- WG9 5 year Review 11693
- WG9 5 year Review 11694 Part 1
- WG9 5 year Review 11694 Part 2

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

WG10 TF12 conducted a very successful interoperability conformance test in November 2009 in Paris, France, focusing on ISO/IEC 18013-4. Following the processing of the results, ISO/IEC 18013-4 was submitted for FCD ballot in June, 2010.

European members of WG10 were instrumental in the adoption of ISO/IEC 18013 by the European Commission's DGTREN Driving Licence Committee Expert Working Group.

A new work item ballot, as well as an accompanying PDAM ballot, was published to enhance ISO/IEC 18013-3. The area of interest deals with the use of a one-line machine-readable string ("MRZ") using standard OCR readers to read a Basic Access Protection input string.

2.3 RESOURCES

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

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.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

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, Finland, France, Germany, Japan, Korea, Netherlands, Singapore, United Kingdom and the United States support the work of WG3.

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

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

There was a big involvement of editors and experts particularly due to an important workload. Till now, the replacement of editors has been made with no impact for the work.

WG5 - REGISTRATION MANAGEMENT GROUP

WG-5 Meets for half a day, once a year. Many of the participants come for this meeting only and are not required to go to the SC-17 Plenary otherwise. In some cases they will be out of the office for as long as 6 days just to attend this half day meeting.

We would like to expand the substance of our WG meeting and add value to the members participation. We would like to attract liaisons to give presentations from any of the other Sub Committees, Working Groups, Consortia or Forums who may offer insight into how their standards and ours can coexist. If we can educate our members we will be better prepared to create and uphold a standard that meets the needs of our entire industry.

Throughout the year we hold periodic ad-hoc meetings to address all negative Blockholder application votes. Virtual conferences cannot replace the tremendous value added to a meeting by attending in person. However, in the absence of a significant change in our agenda, we will investigate the feasibility of holding the meeting outside of the traditional Plenary Schedule in more centrally located locations and with virtual conference facilities.

WG8 - CONTACTLESS INTEGRATED CIRCUIT(S) CARDS, RELATED DEVICES AND INTERFACES

Resource availability is commensurate with the work being undertaken.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

WG9 copes well with its work program, project editors and experts remain consistently focused to achieve Standards development with minimal delay.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

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

2.4 ENVIRONMENTAL ISSUES

No issues reported.

2.5 PARTICIPATION METRICS

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

Attendance of Meetings

WG1 meetings are attended by approximately 20 to 25 experts from the following NBs and liaison organizations:

- 6 National Bodies: UK, Japan, USA, Germany, France and New Zealand.
- 3 Liaisons: ICMA, MasterCard and VISA.

Participation in Ballots

Ballot results of WG1 standards include typically votes and comments from the following 35 NBs: Australia (SA), Austria (ON), Canada (SCC), China (SAC), Cuba (NC), Czech Republic (CNI), Denmark (DS), Finland (SFS), France (AFNOR), Germany (DIN), India (BIS), Iran (ISIRI), Ireland (NSAI), Israel (SII), Italy (UNI), Japan (JISC), Kenya (KEBS), Korea, Republic of (KATS), Luxembourg (SEE), Malaysia (DSM), Netherlands (NEN), New Zealand (SNZ), Norway (SN), Poland (PKN), Portugal (IPQ), Romania (ASRO), Russian Federation (GOST R), Saudi Arabia (SASO), Singapore (SPRING SG), South Africa (SABS), Spain (AENOR), Sweden (SIS), Switzerland (SNV), United Kingdom (BSI) and USA (ANSI).

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

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 world-wide.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

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

WG8 - CONTACTLESS INTEGRATED CIRCUIT(S) CARDS, RELATED DEVICES AND INTERFACES

	P-Members	Liaisons	Delegates
WG8			
46th Meeting Valence, France, 2009-12-02/04	7	2	23
47th Meeting Berlin, Germany, 2010-04-28/30	9	2	26
48th Meeting Takamatsu, Japan, 2010-09-29/10-01	11	1	26
WG8/TF2			
31th Meeting Valence, France, 2009-12-02/04	6	2	22
32th Meeting Berlin, Germany, 2010-04-28/30	7	2	24
33th Meeting Takamatsu, Japan, 2010-09-29/10-01	7	-	23

WG9 - OPTICAL MEMORY CARDS AND DEVICES

USA, Germany, Canada, Switzerland, Japan, and UK have actively contributed to the WG9 work program this year.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

Table 1 reflects the meeting participation of the most recent three meetings of WG10.

Country	Meeting		
	Beijing, China, September 2009	Swansea, Wales, April 2010	Shibula, South Africa, July 2010
China	3		
France	2	2	2
Germany	1	1	
Japan	3	3	2
Namibia		1	2
Netherlands	2	3	
South Africa		1	1
South Korea	1	2	
Switzerland		1	1
United Kingdom		4	
United States	2	4	3

WG11 – APPLICATION OF BIOMETRICS TO CARDS AND PERSONAL IDENTIFICATION

3 FOCUS NEXT WORK PERIOD

3.1 DELIVERABLES

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

- ISO/IEC 7810

Due to significant input from the requirements from other standards and new methods and considerations WG1 is working on a new revision of 7810. WG1 expects to send a CD out for ballot at the end of the upcoming business period.

- ISO/IEC 7811-1 and 7811-2

Both standards are due for regular review and should result in a CD ballot during the upcoming business period.

- ISO/IEC 10373-1

Together with 7810, WG1 is now working on 10373-1 to include transferred and new methods. WG1 expects to send a CD out for ballot at the end of the upcoming business period.

- ISO/IEC 24789-1 and -2

These two standards are related to the durability and longevity of cards and are currently out for FCD ballot. WG1 anticipates publication during this business period.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

The following will form the focus for WG3 over the business period ending September 2011:

- Revision of the Logical Data Structure Technical Report
- Towards Better Practice in National Identity Management
- Supplemental Access Control
- New Edition(s) of the Doc 9303 Supplement
- Integrating and Publishing Supplement Information Into Doc 9303
- Electronic Immigration Clearances
- Placement of Data on TD-1 Cards
- Machine Assisted Document Security Verification
- Standards for Emergency/Temporary Passports
- Arabic Transliteration
- Capacity Building Support
- Breeder Document(s)
- MRTD and eMRTD Certification
- Advancement of the Test Methodology to published Standards
- Expansion of Test Methodology to include printed documents, document readers, and Displayed Portraits
- Working Drafts of New Editions for all three Parts of Doc 9303
- Endorsement the newest Edition of Part 3 of ICAO Doc 9303 as ISO/IEC 7501-3

The following will form the focus of deliverables for WG3 over the business period ending September 2011:

- Issue LDS Version 2 Requirements Technical Report
- Issue LDS/PKI Maintenance Technical Report
- Issue Towards Better Practice in National Identity Management Technical Report

- Issue Supplemental Access Control Technical Report
- Publish New Edition(s) of the Doc 9303 Supplement
- Issue Supplement Clean Up Report
- Progress research into Electronic Immigration Clearances
- Progress Machine Assisted Document Security Verification
- Develop Specifications/Standards for Emergency/Temporary Passports
- Finalize go/no go decision for Arabic Transliteration
- Support Capacity Building
- Progress work into Breeder Document(s)
- Advance Test Methodology towards published Standards
- Progress Test Methodology to include printed documents, document readers, and Displayed Portraits
- Prepare Working Drafts of New Editions for all three Parts of Doc 9303
- Ballot endorsement of the newest Edition of Part 3 of ICAO Doc 9303 as ISO/IEC 7501-3

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

The following standards will have the IS status before the end of the next work period:

- ISO/IEC 7816-1
- ISO/IEC 10373-3
- ISO/IEC 10373-8
- ISO/IEC 24727-5

WG5 – REGISTRATION MANAGEMENT GROUP

The ISO/IEC 7812 series are open for periodic review. The working group is taking steps to further define this standards ability to support the industry while maintaining the numbering scheme it defines. It will be an important part of the WG5 work in the period 2010/2011.

At the next WG-5 meeting, we will deliver CD versions of the following;

- ISO/IEC 7812-1
- ISO/IEC 7812-2

WG8 - CONTACTLESS INTEGRATED CIRCUIT(S) CARDS, RELATED DEVICES AND INTERFACES

- ISO/IEC 14443-3:2001, Identification cards - Contactless integrated circuit(s) cards - Proximity cards - Part 3: Initialization and anti-collision, currently awaiting final corrections before publication.
- ISO/IEC 10373-6, Identification cards - Test methods - Part 6: Proximity cards, the second edition is waiting the addition of the editorial comments from the FDIS ballot. WG8 will review the final version before publication.

- **Amendments regarding “Electromagnetic disturbance” (EMD)**
 - ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 3: Limits of electromagnetic disturbance levels**
 - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anti-collision - **Amendment 4: Electromagnetic disturbance handling**
 - Identification cards - Test methods - Part 6: Proximity cards - **Amendment 9: Test methods for electromagnetic disturbances**

All three above amendments

- have achieved approved FCD (FPDAM9) status,
 - have had their received comments resolved,
 - will be launched as FDIS ballot (FDAM9) by mid November 2010.
- **Amendments regarding “Additional PICC classes”**
 - **ISO/IEC 14443-1:2008/Amendment 1** - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 1: Physical characteristics - **Amendment 1: Additional PICC classes**
 - has achieved approved FCD (FPDAM1) status,
 - is being launched as FDIS ballot (FDAM1).
 - **ISO/IEC 14443-2:2010/Amendment 4** - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 4: Additional PICC classes**
 - has achieved approved 2nd FCD (FPDAM4.2) status,
 - has had its received comments,
 - will be launched as 3rd FCD ballot (FPDAM4.3) by mid November 2010.
 - **ISO/IEC 10373-6:2010/Amendment 8** - Identification cards - Test methods - Part 6: Proximity cards - **Amendment 8: Additional PICC classes**
 - has achieved approved 2nd FCD status (FPDAM8.2),
 - has had its received comments,
 - will be launched as 3rd FCD ballot (FPDAM8.3) by mid November 2010.
- **Amendments regarding “Exchange of additional parameters”**
 - **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**
 - has achieved approved FCD (FPDAM1) status,
 - will be launched as FDIS ballot (FDAM1) by November 2010.
 - **ISO/IEC 10373-6:2010/Amendment 11** - Identification cards - Test methods - Part 6: Proximity cards - **Amendment 11: Exchange of additional parameters**
 - will be launched as CD ballot (PDAM11) by mid November 2010.
- **Amendments regarding “Very high bit rate” (VHBR)**

- **ISO/IEC 14443-2:2010/Amendment 1** - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 1: Bit rates higher than fc/16 and up to fc**
 - will be launched as CD ballot (PDAM1) by mid November 2010.
- **ISO/IEC 14443-3:2010/Amendment 2** - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - **Amendment 2: Bit rates higher than fc/16 and up to fc**
 - will be launched as CD ballot (PDAM2) by mid November 2010.
- **ISO/IEC 14443-4:2008/Amendment 2** - Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - **Amendment 2: Bit rates higher than fc/16 and up to fc**
 - will be launched as CD ballot (PDAM2) by mid November 2010.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

The following standards will have the IS status before the end of the next work period:

- ISO/IEC 10373-9
- ISO/IEC 11693
- ISO/IEC 11694-1
- ISO/IEC 11694-2

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

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

- Publish the FCD and FDIS ballots for ISO/IEC 18013-4.
- Publish the FPDAM and FDAM ballots for the first amendment of ISO/IEC 18013-3.
- As part of the systematic review of ISO/IEC 18013-1, draft revised text for those areas already identified to be in need of change.

WG11 – APPLICATION OF BIOMETRICS TO CARDS AND PERSONAL IDENTIFICATION

Once 24787 has been published, WG11 needs to focus on the alignment and maintenance of 24787 as other SCs and WGs amend their standards as per ISO periodic review. Specifically, 24787 refers to standards published by SC17 WG4, SC27 and SC37, hence when these standards change, there is a need to amend 24787 as well.

Currently, WG11 has only one work item (namely 24787), so the main activity for WG11 in 2011 would be to encourage more new work items, given that the scope of WG11 is relatively wide.

3.2 STRATEGIES

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

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.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

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).
- Standard solutions for secure contactless transactions in collaboration with WG8 experts.
- 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.
- To make WG4 work more visible by a more active participation in forums and conferences to facilitate adoption of WG4 cross-sector 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.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

The main topics which have been identified are:

To revise published standards at the 5 year review stage and expand the range of these standards to meet present day requirements

3.2.1 RISKS

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

Providing a standard about card durability in the nearer future is of high importance to the market. Delaying this too long would cause too many proprietary solutions to develop. No other obvious risks exist.

Integrating physical requirements into 7810 effectively implies transfer of control of these requirements from one WG to another. Apparently some individual experts feel uneasy with giving up control of some of these requirements.

One national body has raised the desire that the process started with integrating the majority of physical requirements and related test methods from SC17's technology standards into 7810 and 10373-1 should not stop there, but should be extended to covering the integration of various technologies on a single card. We will address this issue in close timely proximity to the next plenary and report further on this issue.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

The major risks to WG3 accomplishing the objectives it has set for itself in the business period ending September 2011 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 to establish overall policy direction.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

The lifecycle of the standard process is longer than lifecycle of the technology.

The multiplicity of standardisation initiatives makes the cross-sector approach of WG4 difficult.

Technical complexity of new standards might impair adoption.

Difficulty in publishing and maintaining testing standards.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

No immediate risks are known at this time.

3.2.2 OPPORTUNITIES

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

Consolidating the physical requirements and corresponding test methods into the Identification Cards base standard 7810 and the corresponding test method standard 10373-1 provides a good chance to create a comprehensive physical base standard, thus easing use of the family of standards about Identification Cards. The progress of this work makes it possible to establish 7810 also as the basis of integrating various technologies on a single card.

WG1 has a unique collection of experts on durability issues in the card industry now. Bringing out usable standards now could be of massive benefit to the market and also to establish SC17 and WG1 as competencies in this area.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

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. As such, many of these tasks must be undertaken and completed in a short period of time to ensure that the Program continues successfully.

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

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 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).

The new middleware standard ISO/IEC 24727 shall facilitate the integration of the card in service-oriented architectures (Web Services, ID Management).

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.

The new standard ISO/IEC 12905 enables for the use of cards by persons with special needs facilitating social inclusion.

Boost the contactless card market by standardizing the secure and application layers.

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

WG10 is in the process of drafting "marketing" documentation that explains the use and benefit of the ISO/IEC 18013 series of standards. A targeted version has already been distributed within the European Union; a more general version is being prepared for distribution to issuing authorities world-wide.

3.3 WORK PROGRAMME PRIORITIES

WG1 PHYSICAL CHARACTERISTICS AND TEST METHODS FOR IDENTIFICATION CARDS

During the next business period WG1 will primarily focus on two objectives:

- Amending and updating the physical base standard as well as the related test method standard through incorporating the amendments and working on additional test methods.
- Various regular revisions.

WG3 – MACHINE READABLE TRAVEL DOCUMENTS

The following are the priorities for WG3 over the business period starting October 2010:

Support MRTD Standards Development:

- Issue LDS Version 2 Requirements ICAO Technical Report
- Issue LDS/PKI Maintenance ICAO Technical Report
- Issue Towards Better Practice in National Identity Management ICAO Technical Report
- Issue Supplemental Access Control ICAO Technical Report
- Publish New Edition(s) of the Doc 9303 Supplement
- Issue Supplement Clean Up Report
- Progress research into Electronic Immigration Clearances
- Progress Machine Assisted Document Security Verification
- Develop Specifications/Standards for Emergency/Temporary Passports
- Finalize go/no go decision for Arabic Transliteration

- Support Capacity Building
- Progress work into Breeder Document(s)
- Advance Test Methodology towards published Standards
- Progress Test Methodology to include printed documents, document readers, and Displayed Portraits
- Prepare Working Drafts of New Editions for all three Parts of Doc 9303
- Ballot endorsement of the newest Edition of Part 3 of ICAO Doc 9303 as ISO/IEC 7501-3

Support Standards Users:

- Support Capacity Building

WG4 - INTEGRATED CIRCUIT CARDS WITH CONTACTS

The main priorities for 2010/2011 are:

- Complete the revision of ISO/IEC 7816-4
- Launch the revision of ISO/IEC 7816-6, -8, -9, -11, -12 and -13.
- Publish ISO/IEC 12905 ensuring back compatibility with existing CEN standards.
- Progress on the amendments for ISO/IEC 24727 parts 1 to 4.

WG9 - OPTICAL MEMORY CARDS AND DEVICES

The main priorities for 2010-2011 are:

- Review market and technological trends of the optical memory card industry for the revision of both linear recording as detailed in ISO/IEC 11693 and 11694 and holographic recording methods in ISO/IEC 11693-2 and 11695 standards.
- Publish ISO/IEC 10373-9 (tests).

WG10 - MOTOR VEHICLE DRIVER LICENCE AND RELATED DOCUMENTS

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

- Complete work on ISO/IEC 18013-4.
- Engage the relevant entities within the United Nations and within the European Commission to resolve the incompatibilities in the vehicle category codes defined by each of these bodies (as are reflected in ISO/IEC 18013-1).
- Finalize the first amendment to ISO/IEC 18013-3.
- Review ISO/IEC 18013-1.

WG11 – APPLICATION OF BIOMETRICS TO CARDS AND PERSONAL IDENTIFICATION

Our immediate priority is to wait for and resolve the comments received from 24787 FDIS ballot. Tentatively, we are planning a ballot resolution meeting in February 2011, assuming that ISO Secretariat opens the FDIS ballot before end of 2010.