

ISO/IEC JTC1/SC17
Cards and personal identification

2004-10-06

ISO/IEC JTC1/SC17 N 2626

WG8 N 1060

DOCUMENT TYPE: OFFICER'S CONTRIBUTION

TITLE: Revised Report of the Convenor of WG3 to the ISO/IEC JTC1/SC17, Plenary Meeting 2004-10-06/08, Sydney, Australia

BACKWARD POINTER: N

SOURCE: Secretariat ISO/IEC JTC1/SC17

STATUS: For review at the SC17 Plenary Meeting

ACTION ID: FYI

WORK ITEM:

DUE DATE:

DISTRIBUTION P, L and O-Members of ISO/IEC JTC1/SC17
ISO/IEC JTC1 Secretariat and ISO/IEC/ITTF

MEDIUM: SERVER

NO. OF PAGES: 6

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ISO/IEC JTC1/SC17 N2626

ISO/IEC JTC1/SC17 WG3 N2004-32

Convenor's Report
(17th Plenary of ISO/IEC JTC1/SC17)

Working Group 3 (WG3)
Machine Readable Travel Documents

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Working Group 3 - Machine Readable Travel Documents

Date: 4 October 2004

STATUS OF MACHINE READABLE TRAVEL DOCUMENT STANDARDS

No changes were made to the ISO/IEC 7501 series of Standards covering Machine Readable Travel Documents (MRTDs) since the 16th Plenary of SC17.

FDIS balloting was to be carried out in support of a new Edition of ISO/IEC 7501-3 and Pre-FDIS balloting was to be carried out in support of a new Edition of ISO/IEC 7501-1; i.e. both recommending endorsement of a corresponding new Second Edition of Part 3 and Fifth Edition of Part 1 respectively of Doc 9303 published by the International Civil Aviation Organization (ICAO). However, given the significant changes taking place surrounding ICAO's introduction of a new "Biometric Empowered Machine Readable Passport containing a Contactless IC Chip" (a.k.a. **the eMRP**), it was determined that steps had to be taken to determine if and if so, how ISO balloting could take place during a period of such significant change in the ICAO Specifications. The determination concluded that the FDIS and Pre-FDIS balloting should be postponed pending issue of new versions of Parts 3 and 1 of ICAO Doc 9303 respectively.

By way of clarification, WG3 and ICAO had earlier agreed that ICAO would use Technical Reports to deliver the evolving specifications for the new eMRP, while at the same time publishing a "Notice of Forthcoming Amendment" for Parts 1 and 3 of ICAO Doc 9303 to allow ISO to proceed with the necessary FDIS and Pre-FDIS balloting. Following the 16th Plenary it became apparent that even in the presence of the above approach endorsement balloting could be problematic. It was decided that the bet approach was to wait until new Editions of ICAO Doc 9303 were prepared reflecting the deployment of the globally interoperable biometric(s) and Contactless IC(s). Work on a new Edition of Part 1 of ICAO

Doc 9303 is nearing completion. Work will soon begin soon on a new Edition of Part 3.

The table below summarises the focus of WG3 development work related to International Standards for Official Travel Documents since the 16th Plenary.

ICAO Document Number	ISO Standard Number	Title	Project Number	Work Since 16 th Plenary
Part 1 of Doc 9303	ISO/IEC 7501-1	Identification cards - Machine readable travel documents – Part 1: Machine readable passport	97.17.9	Collaborate with ICAO TAG/MRTD and its Working Groups to finalize Version 1 specifications for the new eMRP. Emerging specifications were documented as a suite of ICAO Technical Reports, which are posted to the ICAO MRTD Web Site. Work now focuses on documenting any clarifications needed to support use of these Version 1 Specifications by States moving to issue the new eMRP.
Part 2 of Doc 9303	ISO/IEC 7501-2	Identification cards - Machine readable travel documents – Part 2: Machine readable visa	1.17.15	Work has continued on upgrading Part 2. This work is being done in support of ICAO. The work has been slowed since the priority for ICAO has been the preparation of the suite of Technical Reports for the new eMRP.
Part 3 of Doc 9303	ISO/IEC 7501-3	Identification cards - Machine readable travel documents – Part 3: Size-1 and Size-2 Machine readable official travel documents	1.17.18, 1.17.21	Collaborate with ICAO TAG/MRTD and its Working Groups to transition the Version 1 Specifications for the new eMRP to apply to Size-1 and Size-2 machine readable official travel documents. This work is just beginning and is expected to be well underway by the end of Calendar 2004.

STATUS OF TECHNICAL ASSISTANCE WORK IN SUPPORT OF ICAO TAG-MRTD

WG3 Very Active Since 16th Plenary

WG3 and its five (5) Task Forces have been extremely active during the past year providing technical assistance to ICAO in a significant number of areas. This work was largely focused on supporting ICAO's program to immediately introduce new specifications for the biometrically empowered eMRP; i.e. specifications that will lead to an improved ability to identify the presenter of the MRP as the rightful holder.

ICAO Moves to Introduce New Improved Facilitation and Enhanced Security MRP

Background: On 28 May 2003 ICAO adopted the use of facial recognition as the globally interoperable biometric for machine-assisted identity confirmation with MRTDs. ICAO also selected high-capacity Contactless IC(s) as the data storage technology to store the identification information (including the face biometric) in the MRTDs (passports, visas and

identity cards). ICAO adopted the use of a Logical Data Structure (LDS) which was largely developed by WG3 to ensure global interoperability of details recorded in the Contactless IC(s). ICAO also devised a scheme based on PKI principles to protect the recorded details - as well as ensure that authenticity and integrity could be confirmed for encoded details.

ICAO TAG-MRTD with the assistance of WG3 has completed development of a set of "Version 1 specifications" for the eMRP. These specifications have been agreed by ICAO and its' Member States (Countries) and deemed as those that will govern introduction of the first versions of eMRP to be issued as early as November 2004.

ICAO Developing New Biometric MRP on Urgent Basis

The urgency of introducing this new biometrically empowered eMRP is underscored by new US Law – i.e. *US Public Law 107-173 – Enhanced Border Security and Visa Reform Act*, which defines that the twenty seven (27) US Visa Waiver countries must have started **issuing the new eMRP by 26 October 2005** or have their Visa Waiver status cancelled. **Note: the US recently extended the compliance date from 26 October 2004 to 26 October 2005** to give States additional time to deal with the many issues they will and are facing when integrating a Contactless IC(s) Chip into a traditional MRP book.

Work has therefore been conducted in earnest since the 16th Plenary by WG3 in support of ICAO [and especially it's New Technologies Working Group (ICAO TAG-MRTD/NTWG)] in its goal to successfully add the Contactless IC(s) and face biometric machine assisted identity confirmation on a world wide basis to the traditional passport book; and in fact, all MRTDS.

Work since the last Plenary has largely focused on the following three (3) critical areas: (1) development of specifications governing placement of a Contactless IC(s) into the passport book (work coordinated WG3/Task Force 1); (2) finalization of the initial Version of the globally interoperable Logical Data Structure (LDS) to be used for the recording data within the Contactless IC(s) Chip (via WG3/Task Force 1); and (3) development of a scheme to secure the data recorded to the Contactless IC(s) Chip (via WG3/Task Force 5).

WG3 and WG8 Work Closely to Ensure Effective Delivery of Specifications for Contactless IC(s) for eMRP

WG3 and WG8 have worked closely to ensure the unique needs associated with introduction of an eMRP with integrated Contactless IC(s) Chip have been addressed. **WG3 very much appreciates the significant help extended by WG8 over the past 12 months and especially that of its Convenor Michael Hegenbarth.**

WG3 Works to Develop Methodology for Testing the New eMRP

WG3 created TF4 in advance of the 16th Plenary Meeting to develop a methodology for testing a Passport book containing a Contactless IC(s) Chip. Several meetings of the WG3/TF4 have occurred, the latest in Kyoto [Japan] coincident with the 30th meeting of WG3. The work to date has resolved a methodology reflecting four (4) areas of test; i.e. durability, electrical-RF, communications and system. An initial report is to be tabled at the next meeting of the New Technologies Working Group of ICAO TAG-MRTD to be held in December in Auckland [New Zealand].

New Technology Working Group of ICAO TAG-MRTD Asks WG3 to Provide Clarification Annex for Suite of Version 1 Technical Reports and Go Forward Forum for Developing Next Version Specifications

At its last meeting (Kyoto [Japan], 31 August – 3 September 2004), the New Technologies Working Group (NTWG) of ICAO TAG-MRTD decided to disband the three Task Forces it had created in London [UK] in July 2003. In so doing it recognized that significant work had been completed by the Task Forces, but felt that it was time to return to the original development model for creating the draft positions for consideration by ICAO TAG-MRTD; i.e. one in which NTWG provides the forum for policy and visioning, while WG3 provides the forum for creating draft new technology specifications.

To support this change, WG3 at its 30th meeting held in Kyoto [Japan], 5-7 September 2004 agreed the following:

- the existing structure of five (5) Task Forces (WG3/TF1-New Technologies, WG3/TF2-Doc 9303 Preparation, WG3/TF3-Education Support, WG3/TF4-Test Methodology and WG3/TF5-Security Schema) would support the return to the original development model for creating the draft new technology specifications for consideration by NTWG and eventually ICAO TAG-MRTD; and
- a temporary "Global Interoperability Maintenance Team" would be created immediately to coordinate provision of any clarifications that may be required as the ICAO Member States proceed to implementation using the Version 1 specifications contained in the suite of ICAO Technical Reports. The Team will be headed by WG3/TF1 Task Force Leader Kefauver and comprise four (4) contributing global interoperability maintenance focuses: Contactless IC Implementation (headed by WG3/TF1 Task Force Leader Kefauver); LDS Version 1 Implementation (headed by WG3/TF1 Expert Baggeroer); Security Scheme Implementation (headed by WG3/TF5 Task Force Leader Kinneking); and Biometrics Implementation (headed by the ICAO NTWG Representative from New Zealand [Greenough or Philp]).

The first task to be addressed by the Global Interoperability Maintenance Team is to prepare the Clarification Annex that was in the process of being finalized by the NTWG Task Forces. This Annex will be provided to NTWG by November 2004.

WG3 and ISO Agree On Approach for WG3 Work Program to Continue While New Versions of Parts of ICAO Doc 9303 are Introduced

To ensure that WG3 is able to continue with its New Work Item Program, to allow ICAO the time required to introduce new versions of Doc 9303 and to resolve references to the out of date Parts of Doc 9303 in Parts of ISO/IEC 7501, WG3 and ISO have agreed to publish new editions of ISO/IEC 7501-1 and 7501-3. These new editions will indicate that endorsement referred to a now out of date edition of Parts 1 and 3 of ICAO Doc 9303 respectively; that new editions are being created by ICAO TAG/MRTD with the participation of ISO; and that as soon as the new Editions of Parts 1 and 2 of ICAO Doc 9303 are ready ISO will initiate endorsement consideration. Current estimates suggest publication of a new Edition of Part 1 of Doc 9303 will occur within the next 12 months.

SUMMARY OF MEETINGS SINCE 16th PLENARY

WG3 Attended Meeting of ICAO's Technical Advisory Group on Machine Readable Passports (ICAO TAG-MRTD)

1. WG3 represented ISO at the 15th meeting of ICAO TAG-MRTD held in Montreal [Canada] from 17 through 21 May 2004.

WG3 Attended Numerous Meetings of Working Groups of ICAO TAG-MRTD

ICAO TAG-MRTD/New Technologies Working Group

2. WG3 and WG3/TF1 representatives attended two (2) meeting of ICAO TAG-MRTD/NTWG held in Den Haag [Netherlands] from 24 through 27 February 2004 and Tokyo [Japan] from 31 August through 3 September 2004.
3. WG3/TF1 representatives attended several meetings of a special sub-group formed by the ICAO TAG-MRTD/NTWG to consider issues surrounding securing data recorded in the Contactless IC(s) in the MRP.
4. WG3/TF1 representatives attended several meetings of a special sub-group formed by the ICAO TAG-MRTD/NTWG to consider issues surrounding integration of the Contactless IC(s) into the MRP book.
5. WG3/TF1 representatives attended several meetings of a special sub-group formed by the ICAO TAG-MRTD/NTWG to consider issues surrounding communication between the Contactless IC(s) in the MRP and the document reader.

ICAO TAG-MRTD/Document Content and Format Working Group

6. WG3/TF2 representatives attended two (2) meetings of ICAO TAG-MRTD/DCFWG; the first held in March 2004 in Basingstoke [UK] and a second held in May 2004 in Montreal [Canada].

ICAO TAG-MRTD/Education and Promotion Working Group

7. WG3/TF3 representatives have also supported the work of ICAO TAG-MRTD/EPWG. Meetings were held in Vienna [Austria] in March 2004, in Haarlem [the Netherlands] in August 2004 and in Montreal [Canada] in May 2004 immediately prior to the TAG plenary.
8. The ICAO TAG-MRTD/Education and Promotion Working Group also held a Workshop; organized collaboratively with the Organization for Security and Co-operation in Europe (OSCE) in Vienna on 1 and 2 March 2004. A number of WG3 members, including the Convenor participated as speakers.

WG3 Met Twice Since 16th Plenary

9. WG3 has met twice since the 16th Plenary; 6-8 April 2004 in Munich [Germany] and 5-7 September 2004 in Kyoto [Japan].

Priorities

10. The major priorities for WG3 are:
- Assist ICAO develop and publish clarifications - as may be required - to the Version 1 specifications and associated suite of ICAO Technical Reports to enable successful issue of the new *eMRP* by Member States of ICAO. Publication will be via a posting made to the ICAO MRTD Web-site.
 - Develop and contribute a Test Methodology for the new *eMRP*.
 - Work with ISO to publish new Editions of ISO/IEC 7501-1 and ISO/IEC 7501-3 that indicate endorsement refers to out of date Editions of corresponding Parts of ICAO Doc 9303 and that once new Editions are published by ICAO ISO will undertake endorsement consideration.
 - Provide the forum for creating new Version 2 technology specifications for *eMRTDs*.

And above all,

- Achieve the first two priorities defined above so as to allow as many States as possible to issue the new *eMRP* in 2004/2005, while not jeopardizing introduction over the long term of an effective series of specifications enabling globally interoperable use of the facial biometric and Contactless IC(s) with all forms of MRTDs.

- END -