

ISO/IEC WG8 and WG8/TF2 Report

WG8/TF2 Meeting No 23 - 8th and 11th October 2004 in Sydney
 WG8 Meeting No 33 - 12th thru 15th October 2004 in Sydney

Participants

The following 20 participants attended the WG8 and/or TF2 meetings:

	Peter Spalding	Australia	
	Franz Huber	Austria	
	Reinhard Meindl	Austria	
	Jean-Paul Caruana	France	
	Frédéric Hanauer	France	
	Pascal Roux	France	TF2 Convener
	Klaus Finkenzeller	Germany	
	Michael Hegenbarth	Germany	WG8 Convener
	Mickey Cohen	Israel	
	Hemy Itay	Israel	
	Hiroshi Karibe	Japan	
	Mikio Mukai	Japan	
	Yoshihisa Takayama	Japan	
	Norihisa Yamamoto	Japan	
	Kelvin Lim	Singapore	
	Chris Stanford	U.K.	
	David Dressen	U.S.A.	
	Marty Frary	U.S.A.	
Liaisons:	Mark Kamers	MasterCard International	
	Jim Ridell	VISA International	

1. Meeting and Liaison Reports

SC17 resolutions 432, 517, 525, 530, 531, 533, 534 were reviewed. These cover the LUC and FFF items discussed in TF2, plus the revision of 15693-3, and the revision of 14443-2,3,4.

WG3 has requested feedback on the ICAO technical reports. A calling notice has been issued for a meeting in Washington DC Nov 30/Dec 1.

WG4 assigned tag 49 for AFI in ISO7816 part 6. This tag allows Type A cards to provide AFI codes to the reader as an option. This capability was requested by ICAO via WG3.

SC6 NFC standard activities were reviewed. NFC-2 is currently being balloted. While Type B is allowed to be supported by an NFC-2 reader, it is not allowed to be used by an NFC-2 object. A Type A card is explicitly allowed by NFC-1, but only at the 106 kbit/sec communication rate. According to Reinhardt Meindl, a passive card can never be an NFC device.

SC37 is very busy with biometric activities related to the passport, but no specific items were discussed.

2. Limited Use Card (LUC)

SC17 decided on 7 October 2004 that the Limited Use Card (LUC) work items would be divided between WG1 and WG8. WG1 is now responsible for all physical characteristics of LUC cards. WG8 is responsible for all RF characteristics, including physical aspects of the antenna which impact the RF interface and RF performance. The work of WG1 will result in amendments to WG1 standards such as ISO/IEC 15457. WG8 will remain responsible for all parts of ISO/IEC 14443 and will reference WG1 standards when appropriate.

Given the new SC17 work directives, new contributions are needed. Walt Bonneau has volunteered to remain the editor for WG8 limited use card standards, and has been confirmed by WG8. WG8 has requested that Walt split the current working draft into physical and non-physical sections according to SC17's directive.

WG8 is requesting proposals for LUC. All of the possible LUC solutions will be considered when specific technical contributions are submitted by countries thru the normal process. It was decided by TF2 that LUC proposals must not conflict with PCD processing of existing fully compliant cards. A letter from Innovision was discussed by TF2; TF2 recommends that they submit a proposal for limited use cards.

3. 14443-1 revision

The 5 year revision of part 1 was discussed by WG8 and TF2. The new part 1 will reference WG1 documents for many of the current requirements and tests. Only tests that are specific to RF cards will be included in part 1. WG8 decided that this activity will begin immediately. The UK has volunteered to supply an editor for the revision.

RF specific requirements identified by TF2, including the new Class 1 antenna option (for improved interoperability), will remain in the new part 1. Proposals for additional antenna classes will also be considered, however WG8 will not work on dimensions larger than ID1 without an approved new work item. LUC will be incorporated by reference to WG1 standards. The new FFF (free form factor) initiative to allow non-card objects of any shape to be compliant with parts 2,3,4 will also be addressed as part of this revision. FFF may or may not be part 1 compliant, how to address this market need has not been determined.

4. Free Form Factor (FFF)

SC17 has instructed WG8 to consider ways to make ISO/IEC 14443 compliance independent of the form factor. This free form factor (FFF) initiative originated with the UK. Currently to be compliant with 14443-1 the PICC must be a plastic card in the ID1 size. The FFF effort could be result in a new standard, or modifications to 14443. In any case, it will be possible to claim conformance with parts 2 or 3 only, independent of part 1. The major issues with FFF are testing and interoperability.

5. CD of 10373-6/Am5 High Bit Rate Tests

The working draft of 10373-6/Am5 for high bit rate tests was finalized by TF2 and submitted to WG8 for CD ballot. TF2 decided that PICC load modulation testing will be optional for the high bit rates; the mandatory test at 106 kbits/sec should be adequate.

WG8 Ballots

6. Disposition of comments 14443-2/FPDAM2 High Bit Rate

Six comments from Germany, USA, and Austria were resolved and the amendment approved for FDIS ballot. A proposal from the USA to add a new Type A timing figure and table were accepted.

7. Disposition of comments 14443-3/FPDAM1 High Bit Rate

Twenty one comments from the UK, Australia, Germany and Austria were resolved and the amendment was approved for FDIS ballot. A lengthy discussion of the proprietary branch removal from figure 8 ultimately resulted in the addition of a note describing a proprietary exit from the standard anticollision flow after the ATQA. The UK objected to the redefinition of four proprietary Type A bits for high bit rate selection because proprietary bits are reserved for users. After considerable discussion this bit reassignment was deleted from the amendment.

8. Disposition of comments 14443-3/PDAM3 RFU

Twenty five comments from the UK, Austria, Germany, USA, and Japan were resolved (including a negative vote from the USA) and the amendment was approved for FCD ballot. The redefinition of the Type B SOF/EOF bits as RFU was deleted and text added to explain that the optional suppression applies to the mandatory 106 kbits/sec data rate only. The new AFI family "E" for Machine Readable Travel Documents was added to the Type B AFI table as recommended by TF2; code "E1" is designated for passports and "E2" for VISAs.

9. Disposition of comments 14443-4/PDAM1 RFU

Fourteen comments from the Austria, France, Germany and UK were resolved and the amendment was approved for FCD ballot. Several techniques which TF2 established for the PCD to use for a presence check were added to this amendment following the rules section. The discussion of the presence check identified a number of nuances that must be considered when interpreting the rules. Notes were added to clarify the application of the rules and thus improve interoperability.

10. Disposition of comments 10373-6/PDAM1.3 PICC tests

Forty nine comments from the Austria, Germany, Czech Republic, USA, and UK were resolved (including negative votes from the UK and WG1) and the amendment was approved for a 4th CD ballot. The negative votes commented on the relatively unproven nature of this very complex test amendment; resulting in a 4th CD ballot instead of FCD. This gives countries time to implement and check the tests.

11. Disposition of comments 10373-6/PDAM3.2 PCD tests (not yet performed)

Eighty four comments from the Austria, Germany, Czech Republic, USA, and UK were received (including negative votes from the USA, UK and WG1). There was no time available to resolve these comments, so comment resolution is until the April 2005 WG8 meeting.

12. Progress Report: 14443-4/PDAM3 High Bit Rate

No part 4 changes were required for High Bit Rate definition, so this amendment will be cancelled at the request of WG8.

13. Resolutions

WG8 N1031 contains the resolutions of the WG8 meeting. All resolutions were approved unanimously.

14. Contributions

Contributions are requested by WG8 regarding:

- Limited Use Cards (LUC) RF interface and protocols
(with technical justification for any deviation from current standards)
- Free Form Factor (FFF)
- Multiple Chips and Antennas in ePassports (MCAP)
- Standardization of PCDs

15. Comments

These were very busy meetings due to the number of subjects discussed and the number of ballot comments to be resolved. An additional 1.5 to 2 days was required for ballot discussions, but was delayed to the next meeting.

16. Next WG8 Meetings

April 4 to 8, 2005 Madrid, Spain (to be confirmed by host)
September 26 to 30, 2005 Sun City, South Africa (confirmed)

No TF2 meetings are currently scheduled for 2005. WG8 will consider the number of contributions received and will determine when the next TF2 meetings are necessary.