

Reference number of document: ISO/IEC JTC1/SC17/WG1 N **1513**

Date of registration: 2006-03-14

Committee identification: ISO/IEC JTC1/SC17/WG1

Secretariat: Steve Brunt Consultancy s.l.brunt@ieee.org for BSI

Title : Minutes of WG1 meeting 2006-03

Author/Submitter : Steve Brunt, Secretary to WG1

Requested action : for review, comment and action

Document type: WG1 Committee Document

Document subtype: N/A

Document stage: N/A

Document language: English

Minutes of WG1 meeting 2006-03

1. Opening of the meeting, Wednesday 8th March 2005, 9.00

Ref: SC17 Resolution 545/05.

Uwe Trüggelman called the meeting to order. He introduced himself as the new convenor, in place of David May.

2. Adoption of the draft agenda (1N1482R)

The Agenda was accepted as issued but with the order changed to bring forward the items on Self Mark and ePassport.

2.1 National body and Liaison Organisation positions for WG1

1N1510 (PTB), 1N1511 (Japan), 1N1512 (USA).

3. Introduction and roll call

Attendees introduced themselves in turn and a signing-in sheet was circulated (copy attached).

4. Adoption of report from the previous meeting (1N1470)

Accepted as written.

5. Status of WG1 Standards

The following standards are the responsibility of WG1.

Experts considered the current status of each, as follows:

5.1 ISO/IEC 7810

There is no current activity. The standard is operational and stable,

5.1.1 Physical requirements transferred from WG8 ISO/IEC 14443-1

WG1 discussed incorporation of physical requirements from ISO/IEC 14443-1 (see Action 2005-10/7).

Action 2006-03/01: Agreed that physical requirements from ISO/IEC 14443-1 will be incorporated into ISO/IEC 7810 and ISO/IEC 15457-1. Steve Brunt and Denny Warwick will collaborate to do this. The requirements will need to be explicitly identified. Steve Brunt will do a search for these.

5.1.2 Metalised cards etc. (1N1260 and 1N1480R)

Ref: SC17 Resolution 543/05.

The resolution assumes that the problem (if it exists) arises from a discharge path between the human body and the reader structure. It is clear from the anecdotal evidence that there is more to this than meets the eye. Unfortunately, there is a lack of real data.

Colin Hursell (Visa) reported that there were a number of phenomena. One is an incidence of read failures – “soft” failures. Another is an incidence of terminal reset – in some cases, interpreted as an “attack” provoking a response that cannot be automatically recovered. These problems have been seen mostly in Finland although it is believed that it occurs elsewhere. The Visa cards are metalised only over the stripe area and it is not easy for the users hand to be in contact with it even in a swipe reader. Simple checks have revealed that rubbing a metalised card on fabric can cause the problem whereas rubbing a non-metalised card does not. He further noted that the incidence is very small but tends to be concentrated in certain geographical (climatic – cold, dry) locations.

Denny Warwick asked how it was known that there are more failures than there were before. Colin Hursell replied that the problem was highlighted due to reports (complaints) from the field following the issue of one or more batches of cards of this construction. He is convinced that there is a real problem.

Joan Grullon reported that Mastercard has not seen anything so far. Uwe Nendel reported that they have been using metalised cards for around ten years without seeing any problem. Akira Nakazawa reported that the Japanese group had noted that the metalisation forms a partial screen that could interfere with the coupling of contactless chip. – also that the protective overlay is softer than the normal stripe surface so that the probability of creating stripe surface irregularity due to head contact is greater.

Uwe Nendel and Terry Schindler expressed concern that no precipitate action should be taken. WG1 agreed, specifically, that it did not wish, at this stage, to introduce the test method proposed in document 1N1480R (or anything similar).

Uwe Nendel outlined the basic structure and dimensions of the metalised stripe.

In closing the subject, Uwe Trüggelman appealed for any, and all, relevant data to be submitted in time for the June meeting.

5.2 ISO/IEC 7811

5.2.1 ISO/IEC 7811-1 Identification cards – Recording technique – Part 1: Embossing

5.2.1.1 OCR reading of embossed characters

See Action 2005-10/11.

The action relates to the reading of characters produced from the embossed characters. Colin Hursell reported that no expert contact had been found. Denny Warwick also reported that he had been unable to find anyone with any knowledge in this area. It was agreed that no further action can be taken at this time.

5.2.1.2 Self-Mark (ISO/IEC 7811-1/Amendment 1)

Ref: SC17 Resolution 542/05 and ballot result 17N2953.

Enrique Pérez, a representative of the World Blind Union, presented the case for Self-Mark. He described the WBU as an international body with well established links with other international bodies promoting the interests of disabled people. The WBU are concerned at the disadvantages faced by disabled people in accessing card operated/initiated services.

He drew the attention of WG1 to the human rights conventions that dictate the necessity of ensuring unrestricted access to such services by disabled people. He expressed WBU support for the incorporation of Self-Mark into the standards.

Uwe Trüggelman noted that WG1 might well benefit from access to support from experts in this field when dealing with standardisation of these issues. Enrique Pérez responded that Self-Mark represents an important step in the right direction. He offered his institutional support to WG1 as far as might prove necessary.

Kaoru Tsukamoto gave a presentation that sought to address various concerns raised in the ballot comments (see 17N2953). Denny Warwick and Akira Nakazawa will prepare a Disposition of Comments based on the following responses:

1. 1: France will accept the name Tactile Identification Mark (TIM) in place of Self-Mark.
2. France withdrew their objection if the term “raised” is substituted for “embossed”. It was noted that the definition of embossing in ISO/IEC 7811-1 is in line with normal usage, since it simply refers to the production of raised characters. It does not specify the method by which they are raised.
3. France accepted assurances that UV cured resin is capable of producing raised dots on almost any surface.
4. No particular effect on coexistence of technologies is anticipated. However, France wish to ensure that WG1 take it into account.
5. As suggested by France, EN 1332-5 could be used as a reference for this work.

Germany and France also feel that it is inappropriate to include this item in ISO/IEC 7811-1 but that it should become a separate, new part of ISO/IEC 7811, i.e. ISO/IEC 7811-9.

Following the discussion both Germany and France agreed that they would participate in the work. No action was possible in respect of the Finnish comments due to the absence of any representative of that country.

Action 2006-03/08: Denny Warwick and Akira Nakazawa will produce a Disposition of Comments for the ballot on the Self-Mark (now Tactile Identification Mark) New Work Item and send it to Steve Brunt who will forward it, with a covering letter referring to the agreement to participate on the part of France and Germany, to the SC17 Secretary.

Action 2006-03/09: Steve Brunt will distribute all relevant documents to the WG1 Experts in preparation for the start of the work on Self-Mark work item.

5.2.2 ISO/IEC 7811-2

The search for a replacement source of RM 7811-2 continues. Brad Paulson had brought cards to the meeting. A covering note from Kevin Tall will be sent to Steve Brunt for distribution.

It was noted that the results of the German evaluation of the candidate cards are contained in 1N1510.

Action 2006-03/03: Evaluation of RMC 7811-2 cards to be complete and results returned to Kevin Tall by the end of April 2006.

5.2.3 ISO/IEC 7811-6

Current status – published 13th October 2005.

There was no activity to report at this stage.

5.3 ISO/IEC 8484

Denny Warwick reported that the 2nd CD has been issued to SC17 for ballot. WG1 Experts were reminded to submit comments through their national bodies.

5.4 ISO standard for 650 Oersted magnetic stripe cards (ISO/IEC 7811-8)

A comment on this in the PTB contribution questions the use of the Low Coercivity reference card. They are concerned that there is a potential for increased error through this approach due to the larger multiplication of errors in the establishment of the recording current from the measured calibration current. However, they are not willing to contribute to the development of a reference card specifically for 650 Oersted. They also refuse to be held responsible for the use of these cards for measurements on these materials. This raises the question of whether the standard can specify RM 7811-2 as the reference. The German Experts clarified this by contacting Martin Albrecht by telephone during the meeting. He stated that he had no wish to obstruct the standard in this way but simply wishes to avoid any legally binding obligation on PTB to support the use of this reference material for calibration of 650 Oersted measurements.

Kurz have noted that many nominal 650 Oersted materials in fact prove to be significantly at variance from this.

There is also concern that write heads will be unable to fully saturate these materials. Terry Schindler disputed this and reported that his measurements show no such problem so long as the heads conform to ISO/IEC 10373-2.

Japan has comments in 1N1511

Action 2006-03/02: Denny Warwick will prepare an FCD 7811-8, incorporating the Japanese comments in 1N1511, and send it to SC17 for ballot. [Note – the FCD was delivered to Steve Brunt during the meeting]

5.5 ISO/IEC 10373-1, -2, -3

Ref: SC17 Resolution 546/05

Steve Brunt asked WG1 what response should be made to this resolution, which proposes incorporation of all test methods into ISO/IEC 10373.

Action 2006-03/04: It was agreed that Steve Brunt send a response to SC17 Resolution 546/05 that cites SD2 as a justification for not including 15457-3 in 10373.

WG1 also decided that a review of SD2 was overdue.

Action 2006-03/05: Experts wishing to make recommendations regarding SD2 should send these to Steve Brunt for consolidation by the end of mid-April 2006.

5.5.1 ISO/IEC 10373-1 Identification cards - Test methods - Part 1 General characteristics

The FDIS 1N1399R2 and DOC 1N1476 were delivered on 17th November 2005.

It was noted that additional “card service life” tests will almost certainly need to be incorporated, as recommended by TF2.

It was also noted that there may be a need to incorporate tests for “e-passport”, depending upon liaison with WG3..

However, there was nothing further to be done at present, pending the ballot result.

5.5.2 ISO/IEC 10373-2 Identification cards - Test methods – Part 2 Magnetic stripes.

The FDIS 1N1449R was delivered on 4th November 2005.

It was noted that WG1 may need to address concerns over testing of 650 Oersted material (see Action 2005-10/9) but this will be dealt with under the heading of the base standard ISO/IEC 7811-8.

There was nothing further to report, pending the ballot result.

5.6 ISO/IEC 15457

5.6.1 ISO/IEC 15457-1 Identification Cards – Thin flexible cards - Part 1: Physical characteristics

Action 2006-03/06: Steve Brunt will resolve the ballot comments for ISO/IEC 15457-1 by fixing the editorial comments with reference to the helpful French responses. He will then produce an FCD and DOC for the June meeting, where a decision will be made as to the next step.

5.6.2 ISO/IEC 15457-2 Identification Cards – Thin flexible cards - Part 2: Magnetic recording technique

The FCD 1N1475 was delivered on 2nd November 2005.

There was nothing further to report pending the result of the ballot.

With reference to Action 2005-10/2, Steve Brunt reported that no data had been received so far. He renewed his offer to maintain a database of such data for future reference.

He noted that this issue was not a question of opening up the standard to accommodate substandard materials but about intelligent use of QC principles when dealing with sampling from large populations with many degrees of freedom.

5.6.3 ISO/IEC 15457-3 Identification Cards – Thin flexible cards - Part 3: Test Methods.

New test methods were submitted in 1N1504, 1N1505, 1N1508, 1N1509.

Ref: SC17 Resolution 544/05

Action 2006-03/07: Steve Brunt will insert/update the new tests into the current draft FCD ISO/IEC 15457-3 and bring the document back to the June meeting as a new draft FCD.

Clause by clause review:

- 5.5 Rz is no longer used?
- 8.5 Substitute “crumpling” for “rumbling”.

6. Liaison with other WGs

6.1 Liaison with WG8 over Low Usage Contactless Cards

WG1 agreed that Annex A of 14443-1 was counterproductive in effect, if not in intent, and recommended its removal.

It was decided to incorporate the physical requirements transferred from WG8 into ISO/IEC 7810 and ISO/IEC 15457-1 (see action on Steve Brunt and Denny Warwick above under ISO/IEC 7810).

It was agreed that the three-wheel test currently in the annex of ISO/IEC 10373-3 should eventually be incorporated into ISO/IEC 10373-1 in conformance with the editorial rules for this standard. Meanwhile (see TF2 report) it will be incorporated into the CSL working document.

Steve Brunt noted that the WG8 Secretary had been added to the WG1 mailing list.

6.2 Liaison with WG3 over passport test methods

WG1 has been asked to assist WG3/TF4 in developing their test methods. A response is requested before 14th April. DIN have submitted a commentary in 1N1503R.

Steve Brunt noted the requirements given in SC17 SD2, which gives WG1 an oversight for all test methods to form part of ISO/IEC 10373, including commenting on both working and ballot drafts.

It was agreed that an ad hoc task force be convened to review the document in detail and to provide a response to WG3/TF4. The members of the task force will be Uwe Trüggelman, Denny Warwick, Steve Brunt, Martin Winkler, Thomas Kuen, Terry Schindler.

It was further agreed that WG1 should seek to take as much ownership of such tests as the ICAO/ISO relationship will allow.

Felix Shvartsman proposed that a formal liaison be established between WG1 and WG3/TF4. Various members of WG1 are also members of their appropriate national mirror groups but none are directly members of WG3/TF4. Steve Brunt noted that the convenor of WG3/TF4 had been added to the WG1 mailing list.

6.3 Potential liaison with WG4 regarding ISO/IEC 10373-3

Uwe Trüggelman proposed that WG1 should take some ownership of the more physically oriented test methods. It was agreed that this was desirable but that the boundaries of this ownership should be carefully considered. It was further agreed that WG1 would offer the services of Uwe Trüggelman as Project Editor for that sub-part of ISO/IEC 10373-3.

7. Any other WG1 business

No additional business was identified.

8. Review of action item list.

Action 2005-06/08: Martin Albrecht will send to Steve Brunt for distribution the table of results of the tests done by PTB and Eclipse. [showing discrepancies in the results obtained by Eclipse and PTB using the new opacity test method] [**Continuing**]

Action 2005-06/09: Steve Brunt will provide information and comment relating to stripe width measurement problems for (paper) TFCs. [**Continuing**]

Action 2005-10/1: Steve Brunt will produce an FCD for ISO/IEC 15457-2 and send it to SC17 for ballot. [**Complete**]

Action 2005-10/2: WG1 Experts will provide the WG1 Secretary with contact details of manufacturers of TFC products known to them. The WG1 Secretary will write to each such manufacturer requesting samples of TFC products. Each batch should be at least 50 cards, fully documented and compliant with ISO/IEC 15457. These will be tested by Terry Schindler and Steve Brunt (at least) and the data kept for future reference. Manufacturers will be asked to provide QC data on the TFC products for which they provide samples and also on any other TFC products they judge relevant. [**Superseded** by a general invitation to submit test data on TFC products to be incorporated into a database of such data maintained by the WG1 Secretary]

Action 2005-10/3: Steve Brunt will produce a draft FCD of ISO/IEC 15457-3 for the next meeting, incorporating the additional tests arising from the inclusion of contactless TFCs. **[Complete – but see 2006-03/07]**

Action 2005-10/4: Steve Brunt will implement the agreed corrections and produce an FDIS for ISO/IEC 10373-1 and send it to SC17 for ballot. **[Complete]**

Action 2005-10/5: Steve Brunt will implement the additional corrections from Japan and send an FDIS of ISO/IEC 10373-2 to SC17 for ballot. **[Complete]**

Action 2005-10/6: Denny Warwick will produce a 2nd FCD for ISO/IEC 8484 and a disposition of comments for the CD. **[Complete]**

Action 2005-10/7: All experts are requested to state their opinions on the relocation of the criteria for UV light, X-rays, Bending and Torsion, Static electricity and Operating Temperature in WG1 base standards. **[Complete]**

Action 2005-10/8: Steve Brunt will incorporate the new tests for contactless LUCs into the draft FCD for ISO/IEC 15457-3. **[Complete]**

Action 2005-10/9: Martin Albrecht and Terry Schindler will provide data to support the concerns expressed over viability of the test heads in testing 650 Oersted material. **[Superseded]**

Action 2005-10/10: Denny Warwick will deal with the ballot comments and produce a draft CD of the 650 Oersted standard for the 2006-03 meeting. **[Complete]**

Action 2005-10/11: Jim Riddell will seek a technical contact able to shed light on the OCR reading of embossed characters and the applicable tolerances. **[Abandoned]**

Action 2005-10/12: Sud Deland will draft a short amendment for consideration for insertion into 7810. **[Superseded]**

Action 2006-03/01: Agreed that physical requirements from ISO/IEC 14443-1 will be incorporated into ISO/IEC 7810 and ISO/IEC 15457-1. Steve Brunt and Denny Warwick will collaborate to do this. The requirements will need to be explicitly identified. Steve Brunt will do a search for these.

Action 2006-03/02: Denny Warwick will prepare an FCD 7811-8, incorporating the Japanese comments in 1N1511, and send it to SC17 for ballot. [FCD delivered to Steve Brunt during the meeting]

Action 2006-03/03: Evaluation of RMC 7811-2 cards to be complete and results returned to Kevin Tall by the end of April 2006.

Action 2006-03/04: It was agreed that Steve Brunt send a response to SC17 Resolution 546/05 that cites SD2 as a justification for not including 15457-3 in 10373.

Action 2006-03/05: Experts wishing to make recommendations regarding SD2 should send these to Steve Brunt for consolidation by the end of mid-April 2006.

Action 2006-03/06: Steve Brunt will resolve the ballot comments for 15457-1 by fixing the editorial comments with reference to the helpful French responses. He will then produce an FCD and DOC for the June meeting, where a decision will be made as to the next step.

Action 2006-03/07: Steve Brunt will insert/update the new tests into the draft FCD ISO/IEC 15457-3 and bring the document back to the June meeting as a draft FCD.

Action 2006-03/08: Denny Warwick and Akira Nakazawa will produce a Disposition of Comments for the ballot on the Self-Mark New Work Item and send it to Steve Brunt who will

send it, with a covering letter, referring to the agreement to participate on the part of France and Germany, to the SC17 Secretary.

Action 2006-03/09: Steve Brunt will distribute the relevant SC17 documents to the WG1 Experts in preparation for the start of the work on Self-Mark work item.

9. Future Meetings.

The remaining meetings in 2006 will be held in;

- Swansea, Wales, 6th to 8th of June.
- Paris, 2nd to 4th of October.

Uwe Trüggelman invited volunteers to host subsequent meetings.

Akira Nakazawa offered to host the June meeting so WG1 is still seeking a host for the March 2007 meeting.

Annex A – Signing-in sheet for WG1 meeting 2006-03

WG1 2006-03-08

Gene Meier	Data card Group	USA
Brad Paulson	Thor Engineering / ICMA	USA
JOHN STEARNS	MAGTEK INC	USA
Terry Schindler	Brush Industries	USA
STEVE SCHWARTZ	KUCZ TRANSFER PRODUCTS	USA
JOHN SCHNEIDERMAN	DIC INTERNATIONAL USA	USA
JOAN GRULLON	MASTERCARD INTERNATIONAL	USA
Tom McGrath	American BankNote	USA
COLIN HURSELL	VISA INTERNATIONAL	LIASON
Akira Nakazawa	NIDEC SANKYO CORPORATION	JAPAN
Kaoru Tsukamoto	Felica Networks (The kyo yo-hin foundation)	Japan
DENNY WARWICK	DATA CARD GROUP	USA
UWE TRÜGGELMANN	TRÜGGELMANN LTD	UK
STEVE BRUNT	STEVE BRUNT CONSULTING	UK
Dr. Friedrich Sommer	CFC/International	Ger
Günter Endres	Giesecke & Devrient	Germany
THOMAS KUEN	fogra	Germany
Dr. MARTIN WINKLER	INFINEON TECHNOLOGIES	GERMANY
Uwe Wendel	Kurz	Germany
Teresa GILLMAN	Applus	Spain
Juan Jose Portegas	Applus	Spain
David Parde	Applus	Spain
Enish Prisse	RATP	France
Nichel DANCYGIER	THALES TRANSPORTATION SYSTEMS	FRANCE
Bruno Tahour	Axalto	France
Laurence ROBLES	Gemplus	France
Dr. Felix Shvartsman	HID Corporation	USA