

Minutes of second meeting of TF4

Date: 11th 12th January 2006
Venue: APACS London UK

Those present:

Name	Company	Country
Francis Christian	FC Consulting	USA
Chris Stanford	CJS Consultancy	UK
Colin Tanner	Consult Hyperion	UK
Peter Raggam	Infineon	Austria
Pascal Roux	ACS	France
Reinhard meindl	Philips	Austria
Alan McHale	RFI Global	UK
David Main	Visa	Liaison
Mark Kamers	MasterCard	Liaison
Franz Huber	Arsenal research	Austria
Mickey Cohen	Shanit	Israel
Peter Hawkes		UK
Stefan Barbu	Axalto	France
Paul Monk	Cubic	UK
Michael Hegenbarth	Bundersdrukeri	Germany

Item	Discussion	Action
Apologies for absence:	Garth Mackway-wilson Jasmine ong Hiroshi Karibe Junichi Sakaki	
Approval of previous minutes:	Approved as is	
Approval of agenda:	Approved as proposed	
Chair, secretary, project editor: respectively	Francis Christian, Chris Stanford and Colin Tanner	
Discussion		
1.	Franz suggested that topic list item 2 should refer to the PCD tuning not "antenna tuning" Also for item 5 PICC factors should more correctly be PICC to PCD coupling factors. The list will be updated.	All to note
2.	N0005 was presented and the sentiments expressed in it were accepted apart from the concept of an inter-industry API which was deemed to be outside the scope of this group.	
3.	N0006 was presented and Michael noted that this was a PCD test specification and had been submitted to WG3. Whereas N0008 is a PICC test specification. There is some debate in WG3 that N0006 should be the remit of WG8.	
4.	TF4 agreed that it would not be writing a technical report for WG3 on the subject of a PCD however it will take N0006 and any subsequent input from WG3 and where applicable, to the generic interface for contactless cards and readers include in the test methods or base standard.	

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5.	Reinhardt stated that N0006 was focused on the PCD only and very close to the existing standard. Reinhardt was asked to produce a version of N0006 that was not written for just ePassPort, but generic for any contactless and reader. This was later submitted as N0015 and N0016.	Reinhardt (complete)
6.	There was a suggestion from Peter Hawkes that perhaps (in the review of 14443 should the informative type C annex be removed for clarity)	CJS to Refer to WG8
7.	The project editor was instructed to keep the layered approach as per N0006 but include cross references to the base standard or test methods. Some of which may be moved to the base standard during their revision see item 14.	Colin
8.	Operation with multiple cards (chips) in the field is a requirement for passports, whereas for other business sectors perhaps the application only will accept a single card. This raised the issue that some tests may be application dependent. This activity will be addressed in TF2 under a new work item proposal.	Colin to Note
9.	N0007 Mickey and later Colin (N0017) presented flow charts for use by the application layer to ensure accurate operation of multiple cards in a field that may require a reset of the field during the A/B polling sequence. This reset is to prevent cards from becoming or remaining dumb or not activating correctly. The 50ms suggested reset was considered by some to be too long for every polling cycle and the possible inclusion in RATS of some means of reset time indication was suggested.	All to note +Colin to note this possibility in anticollision
10.	Interestingly overlapping antenna coils can lead to zero coupling between them (see N0011) It was felt that this solution may not be appropriate in passports due to the ad hoc nature of visas and their placement in a passport. However other applications may find this useful.	All to note
11.	N0012 was described by Stefan and the concept of ratios to derive figures of merit for certain operational parameters was found to be potentially valuable. Stefan agreed to submit a more detailed version of N0012 before the next meeting.	Franz
12.	Colin introduced N0013 which highlighted the practical problems the uneducated market place has with understanding and interpreting 14443. Our test environment specification should at the least try to make a difficult subject more easily understood and provide high level tests that give confidence that a PCD/PICC are functioning properly. It is also suggested that possibly an additional tag containing the AFI in the ATS for type A cards be considered.	Colin
13.	Franz suggested that test results tables be included as an annex to the standard and agreed to produce a set of tables that extend the protocols test tables in AM1 and 2 to cover the tests of other functions	Franz

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14.	It was agreed that the test environment document should be a standard and of the series 10373-xx but that some of the content may well be merged with 14443 or 10373-6 if appropriate. If after the merging process the remaining content is considered to be only technical guidelines then the document may revert to a technical report.	Colin to note This will be reviewed after the WD goes to CD
15.	Discussions then moved back to the highlights (N0016) and modified (N0015) versions of N0006. This resulted in a number of comments on the content and structure.	
16.	Colin produced a list of clause headings for the Working Draft (WD) and noted against this list the detailed results of the above discussion. Mains points included: <ul style="list-style-type: none"> — The document introductions scope etc should follow ISO norms but each clause should have a purpose statement in plain English. — Possible extension of resonant test frequency range to 20mHz. — This test environment although mainly PCD focused should cover both PCD and PICC when necessary. — Clause would cross reference to 10373 or 14443 as required. — The concept of trying to derive tests that can be used as a measure of the quality of the interface was agreed. For example: the ratio of the distance from the coupler where the PICC is ready to receive data versus the distance when the PCD can receive data from the PICC, or the minimum signal to noise ratio required for correct signal decoding. Other ratios may also be appropriate — It was agreed that the test environment would be specified for a single coupler remote to external influences. However this did not preclude the possibility for development of an optional “quality” measurement where manufacturers claim to support multiple couplers in a confined space. — Consideration should be given to provide a note for a method of computating the SAR with full power operational limitations. Also limits should be quoted where humans would be at risk from over exposure. 	Colin
17.	Colin to produce a first working draft and specify the format for comments from TF4 members and send to all members by Feb. 24. The members are to respond with there comments by March 20, 2006.	Colin
Date of next meeting	4 th , 5 th April 2006 Vienna prior to the WG8 meeting. A meeting is also planned in Washington DC for August 7-8, 2006, if necessary to resolve comments on a CD ballot.	CJS
Circulation	Those present + WG8 convener	