

Reference number of document: ISO/IEC JTC1/SC17/WG1 N **1254**

Date: 2003-03-24

Committee identification: ISO/IEC JTC1/SC17/WG1

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Title : Minutes of WG1/TF1, Barcelona, 2003-03

Author/Submitter : Secretariat

Requested action : for information

Document type: WG1 Committee Document

Document subtype: N/A

Document stage: N/A

Document language: E

Minutes of WG1/TF1 Barcelona 2003

1 Preliminary items

Attendees introduced themselves and an attendance list was circulated. The following experts were present:

George Steele [GS] (USA) (Convenor)
Steve Brunt [SB] (UK) (Secretary)
Richard Fayling [RF] (USA)
Terry Schindler [TS] (USA)
Joseph Naujokas [JN] (USA)
Akira Nakazawa [AN] (Japan)
Yoshikazu Yorimoto [YY] (Japan)
Laurence Robles [LR] (France)
Manuel Deloche [MDe] (France)
Erick Brisse [EB] (France)
Michel Dancygier [MD] (France)
David May [DM] (UK)
Felix Shvartsman [FS] (USA)
Denny Warwick [DW] (USA)
Markus Slavik [MS] (Germany)
Stephan Woelki [SW] (Germany)
Martin Albrecht [MA] (Germany)
Uwe Truggelman [UT] (UK)
Juan Jose Pertegas [JP] (Spain)
Gemma Deler [GD] (Spain)

The draft agenda was adopted.

The minutes of the previous meeting was agreed with no changes.

2 Review action Items from Copenhagen (N1224) & other items

2.1 *Discuss status of readers for evaluation with cards*

All have been sent to those that requested them. So far, there are no results to compare.

Action: All those with readers are requested to return results for the next meeting.

DW had noted apparently poor performance with only single encoded track, while it performed well with multiple tracks.

Action: GS will arrange to follow up on DW's report

2.2 *Discuss overwrite testing w/4000 Oe material*

GS reported that an investigation had done by Magtek and the results circulated to at least some of the WG1 experts. They used 23 cards, over written just once.

MA warned that the procedure for over-write should require three measurements (see N1244) to ensure that a valid result is obtained when testing a single card. N1244 also notes that it is difficult to give the result in terms of Ur. This is an issue to be discussed.

DW suggested that the requirement should be expressed in terms of a "before and after" ratio. This and other related table contents were agreed and the changes will be implemented by DW.

Note that 4000 Oe is not a part of the standard. This test was performed to show that there is good margin in the standard. MA agreed that the margin was good.

2.3 *Discuss jitter and peak shift investigations*

MA reported that measurements were performed and it was concluded that the peak shift measurement is not required. This is in agreement with the US proposal.

2.4 *Discuss reference cards and round robin tests results of Fr & Ur*

MA referred to the PTB contribution N1244 and reported that the results between batches were so close that it appears that a correction factor will not be required. The question arose, as with high coercivity, whether the reference should be defined as 110%. DW suggested that this should be a new and separate reference at 100%. He suggested that the relationship between this and the existing reference should be defined simply by making it a requirement that the stripe should conform to ISO/IEC 7811-6. This was agreed; the reference will be established at 100%.

N1244 proposes that the "window" should be 2,2 at one end and 2,5 at the other (see figure 1 of N1244). There seems to be no need for higher currents. It also proposes that the same tolerances be applied to ISO/IEC 7811-7 as were applied to ISO/IEC 7811-6. There was no disagreement. Finally, N1244 notes the difference in imperial encoding densities (508 ftpi and 1016 ftpi) and recommends that this be addressed in some way. It was agreed that an informative note be added to indicate that this is not intended to be different, simply a more accurate conversion of the metric value.

Action: DW to add the informative note.

2.5 Proposed revisions to CD7811-7

N1116 is the current version. Changes recommended by the US are in the 7811-7 section of the US position paper N1238. All were accepted as written.

In the process of reviewing these items, the decoding process in N1230 was reviewed. This is the basic decode process used by the readers supplied for evaluation. It was agreed to incorporate these.

2.6 Recommendations for further review of 7811-7 or moving to FCD

JN pointed out that a 4 month FCD ballot would close off further discussion at the next meeting. The October meeting is in Singapore and is expected to be poorly attended. GS proposed and DW seconded the motion that the document should go forward to FCD. This was accepted without opposition.

Action: DW to update the working document in readiness for FCD.

Action: GS, DM, MA to review before passing it on to SB.

Action: SB to liaise with Freda Bennett in support of the ballot.

3 Next meeting:

The next meeting will be held on 3rd June, 2003 in Paris.

4 Post Script

At the subsequent WG1 meeting, the change of tolerance for the jitter allowed for L2 and L3 was discussed. This issue was not a part of the changes recommended in N1238. The change of tolerance was agreed and will be incorporated in the FCD (see WG1 Minutes).