

Draft Minutes
Automation/Drive Interface (ADI) Working Group
Ad Hoc Teleconference
T10/04-298r0
9 September 2004
7:30 AM – 9:30 AM PDT

1. Introductions: Group

Paul Suhler called the meeting to order at 7:36 AM PDT on 9 September 2004. He thanked Quantum for hosting the meeting. A table of the attendees appears at the end of these minutes.

2. Approval of the agenda: Paul Suhler

Paul Suhler discussed the order of the discussion items. Kevin Butt requested a discussion item for his Density Override action item. Rod Wideman requested deletion of the ADC letter ballot comment resolution discussion item.

Kevin Butt made a motion for acceptance of the modified agenda. Susan Gray seconded the motion. In the absence of objections or abstentions, the group passed the motion unanimously.

3. Comments on previous meeting minutes: Paul Suhler

12 July 2004 meeting	04-199r0
29 July 2004 teleconference	04-244r0
5 August 2004 teleconference	04-253r0
9 August 2004 teleconference	04-256r1
12 August 2004 teleconference	04-261r0
16 August 2004 teleconference	04-266r0
19 August 2004 teleconference	04-267r0
23 August 2004 teleconference	04-270r0
26 August 2004 teleconference	04-272r0
2 September 2004 teleconference	04-280r0

Paul Suhler requested comments for the minutes of the 12 July 2004 meeting and the following teleconferences from 2004: 29 July, 5 August, 9 August, 12 August, 16 August, 19 August, 23 August, 26 August, and 2 September – 04-199r0, 04-244r0, 04-253r0, 04-256r1, 04-261r0, 04-266r0, 04-267r0, 04-270r0, 04-272r0, and 04-280r0 respectively. No comments were forthcoming.

4. Review of action items: Michael Banther
- a. Kevin Butt will investigate writing a proposal against IBM's ADT letter ballot comment 27. *Carryover*
 - b. Michael Banther will write a proposal to place all of the IU statements associated with entry into a state in the state description sub-clause and to remove such statements from the transition sub-clauses (remembering to rationalize incomplete statements). This

proposal will also change the description of each state machine to clearly indicate what state it is in upon activation. He will produce this proposal for the September or November 2004 meeting. *Carryover*

- c. Kevin Butt to bring in proposal for ADC Letter Ballot comments IBM Butt – 1 & IBM Butt - 2 (Drive Dump). *Carryover*
- d. Michael Banther will bring in a proposal to address ADC letter ballot ([04-197r1](#)) comment HP-225. *Closed, [04-285r0](#)*.
- e. Kevin Butt will write a proposal via e-mail to change the paragraph in 6.2.2.3.1 regarding DENOVR and SELECT WRITE DENSITY parameters, reference ADC letter ballot ([03-385r2](#)) comments IBM PENOKIE-414 and HP-230. *Carryover, in progress.*
- f. Kevin Butt will write a proposal against SPC-3 to add automation type MAM attributes (reference ADC letter ballot [04-197r1](#), comment IBM Roberts - 2). *Carryover*
- g. Michael Banther will bring in a proposal to rename and redefine the DACC bit in the VHF data (reference ADC letter ballot [04-197r1](#), comment HP-162). *Carryover*
- h. Regarding real-time clock control in ADC-2, Paul Suhler will update 04-263r1 with a reference to 04-271. *Closed, [04-263r2](#)*.

5. Discussion items:

- a. ADC: Resolution of letter ballot comment HP-225 ([04-285r0](#)) [Banther].

Michael Banther walked the group through the proposal. He pointed out that his proposed first sentence affects a text change brought about by an IBM letter ballot comment. Rod Wideman identified that comment as IBM Penokie 391.

Kevin Butt asked for the text of the IBM letter ballot comment. Rod Wideman provided the comment. Both Kevin and Rod supported the changes.

Kevin Butt made a motion for incorporation of [04-285r0](#) into ADC. Michael Banther seconded the motion. Paul Suhler asked for any further discussion.

Rod Wideman raised a question about the phrase ‘two-byte extended address method’. Michael Banther pointed Rod to the text in the first paragraph of [SAM-2r24](#), 4.9.8.

David Hawks asked if we want to change the name of the LUN field. Both Kevin Butt and Rod Wideman argued against a change.

In the absence of objections or abstentions, the group passed the motion unanimously.

- b. ADT Letter Ballot comment resolution ([04-162r0](#)) [Entzel].

Paul Entzel led the group through resolution of ADT letter ballot comments.

6. Unscheduled business:

- a. ADC: Density Override and Drive Dump proposals [Butt].

Regarding the DENOVR bit, Kevin Butt reviewed the areas he expects his letter ballot comment resolution text to cover. Kevin asked if he was missing any areas that need to be addressed. The group discussed the intended behaviour of this bit and the associated parameters.

The group also discussed the logistics of gaining agreement. Kevin Butt agreed to e-mail his suggested text to the T10 reflector.

Kevin Butt briefly described the expected content of his drive dump proposals. The group discussed his intention to specify the use of READ BUFFER as the access method to retrieve the dump data.

Rod Wideman asked what the issue was: taking a drive dump or retrieving it. Paul Entzel pointed out that logs are volatile. Kevin Butt stated that at times the DT device needs to have the application client retrieve a drive dump and then force and retrieve a second drive dump in order to capture the necessary information.

A question came up as to whether the drive dump only applies to Load and Unload operations. Paul Entzel pointed out that the text for the RRQST does not limit the setting of the bit to one only during Load and Unload operations.

Michael Banther argued that specification of the method to force a drive dump and to retrieve dump data should be deferred to the MSC draft standard (soon to start work within T10). However ADC, and possibly SSC-3 and SMC-3 can include TapeAlert flags or other log parameters to identify to the application client that it needs to force a drive dump or retrieve dump data. The group moved on to an attempt to identify unused TapeAlert flags in SSC-3 and SMC-2 that removable media devices can use to flag these conditions.

The group debated whether we could agree on a standardized method to force a drive dump. Kevin Butt and Rod Wideman wanted to add a standard mechanism. Rod specifically proposed adding a bit to the NOTIFY DATA TRANSFER DEVICE command. Michael Banther and Paul Entzel opposed adding a standardized method to ADC. Matthew Bondurant suggested that this feature would be useful in many device types; hence it might belong in SPC-x.

Michael Banther explored with Kevin Butt how new Recovery Requested procedures would interact with other procedures. Much discussion ensued about whether new recovery requested codes implying sequence would be accepted. In the end Kevin decided to limit his proposal to adding two codes without any implication of sequence.

7. Next meeting requirements: Paul Suhler

The group will hold a meeting 13 and 14 September 2004 during T10 plenary week in Nashua, New Hampshire beginning at 9:00 AM on 13 September and concluding at 10:00 AM on 14 September.

8. Review new action items: Michael Banther

a. Rod Wideman will incorporate 04-285r0 into ADC.

9. Adjournment: Group

Rod Wideman made a motion for adjournment. Paul Suhler seconded the motion. The group passed the motion unanimously. Paul Suhler adjourned the group at 9:23 AM PDT.

Attendees:

Name	Organization	E-mail
Rod Wideman	ADIC	rod dot wideman at adic dot com
Paul Suhler	Certance	paul dot a dot suhler at certance dot com
Michael Banther	HP	michael dot banther dot at hp dot com
Kevin Butt	IBM	kdbutt at us dot ibm dot com
David Hawks	Iomega	hawks at iomega dot com
Alfred Missbrenner	Quantum	alfred dot missbrenner at quantum dot com
Matthew Bondurant	Quantum	matthew dot bondurant at quantum dot com
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