

Draft Minutes  
Automation/Drive Interface (ADI) Working Group  
Ad Hoc Teleconference  
T10/03-069r0  
29 January 2003  
8:00 AM – 10:00 AM PST

0. Conference Call Information (hosted by Seagate):

Toll Free: (866) 828-0531

Toll: (309) 229-0103 (including international)

Participant Code: 6412485

1. Introductions:

Group

Seagate hosted the teleconference. Paul Suhler called the meeting to order at 8:00 AM PST. The attendees are listed at the end of these minutes.

2. Approval of this agenda:

03-068r0

Paul Suhler

The group approved the agenda as published in the last e-mail.

3. Approval of previous meeting minutes:

03-041r0

Paul Suhler

None of the participants registered comments regarding the previous meeting minutes.

4. Review of action items:

Michael Banther

- a. Michael Banther to produce a proposal for device server interaction section in ADC document.  
*Carryover*
- b. Lee Jesionowski to create a proposal for method to convey Interface Status changed. *Carryover*
- c. Paul Entzel to write up a proposal for the ADC model of TapeAlert. *Carryover*
- d. Susan Gray will investigate whether we have a preference to an Attention signal or AER frame for asynchronous event reporting. *Closed, AER frame sufficient.*
- e. Paul Suhler to follow up with SNIA Interoperability Conformance Test Program (ICTP) Subcommittee regarding test/emulation tool. *Carryover*
- f. Rod Wideman will add ADC device server interaction sub-clause, but no content, in clause 4.  
*Closed*
- g. Paul Suhler will proposal a bridging function. *Carryover*
- h. Rod Wideman will review SSC log pages for applicability to ADC and bring in a proposal.  
*Carryover*
- i. Lee Jesionowski will propose the Requested Recovery log page. *Carryover*
- j. Rod Wideman will review SSC and SPC VPD pages for inclusion in ADC and bring in a proposal. *Carryover*
- k. Rod Wideman will revise 03-042 based on group comments. *Carryover*
- l. Paul Suhler will provide a diagram of the relationship between the ADC device server, data transfer device server, and application client(s). *Closed*

- m. Rod Wideman will incorporate 02-392r0 into ADC. *Closed*
- n. Paul Suhler will revise 03-008. *Closed*
- o. Rod Wideman will incorporate 03-008 as revised into ADC. *Carryover*
- p. Erich Oetting will evaluate the current ACK and NAK frames to check if byte stuffing can occur in them. *Closed*
- q. Erich Oetting will propose a Checksum field. *Carryover*
- r. Paul Suhler will post schedule for teleconferences to T10 reflector. *Closed*
- s. Paul Suhler will talk to John Lohmeyer about next meeting requirements in the T10 plenary week. We want to grab SSC-2 afternoon time. *Closed*, schedule reflects that we start at 1:30 PM
- t. Rod Wideman will post ADC draft incorporating all accepted proposals to the T10 document archive. *Carryover*

#### 5. Discussion items:

- a. Figure for ADC model clause Paul Suhler

The group briefly discussed this figure. Paul Suhler pointed out that Michael Banther had suggested changing 'Primary ... port' to 'Primary ... ports'. The group agreed with this change. Rod Wideman will incorporate it into ADC.

- b. ADP Signal Descriptions Proposal 02-358r4 Michael Banther

Michael Banther reviewed the changes from revision 3 to revision 4 with the group. The group discussed concerns about the Note in sub-clause 5.1.3. Kevin Butt suggested replacing 'below' with specific clauses. Paul Entzel voiced concerns with the note as it stood generating a letter ballot comment. Someone (?) suggested changing 'ADI' to 'ADT.' Likewise, a suggestion arose over changing initiator-target notation and terminology to automation-drive. Michael agreed to make these changes.

Paul Suhler asked for definition of the term 'V-sub-hysteresis' in sub-clause 5.1.5. Michael agreed to provide one.

Paul Entzel suggested adding information about which device port drives each Vendor Unique/Specific connection in 5.2.2. The group discussed changing Attention to Vendor Unique/Specific. Michael agreed to make this change.

Paul Suhler made a motion for incorporation of 02-358r4 as revised into ADT. Rod Wideman seconded the motion. The group passed the motion by acclimation.

- c. ADT Header Reserved Bit Error 03-078r0 Michael Banther

Michael Banther reviewed the proposal with the group. Susan Gray raised the question of whether the frame receiver should ignore reserved fields rather than flag set ones as an error. Lee Jesionowski, Paul Entzel, Paul Suhler, Michael, and Susan discussed this point and concluded that ignoring





## 6. Unscheduled business:

## a. Masking of Status to host.

Rod Wideman and Paul Suhler described the library retry of a load. A host can possibly receive Not Ready, Media Not Present sense data in response to a Test Unit Ready – Request Sense command pair during a successful load sequence when a drive fails a particular load attempt and the library retires the load. Rod suggested that this may be a case where we need a new, ADC-specific command to configure the drive such that it reports Not Ready, Device In Process of Becoming Ready instead of Not Ready, Media Not Present during a load operation or a series of load operations that include library retries. Paul Entzel favors adding a Mode setting that causes a drive to alter reporting to the host until the load completes successfully. Lee Jesionowski and Paul Entzel suggested that the standard should use the concept of interim and completed sense but not define the actual sense values. The group agreed with their suggestion. Rod pointed out that, even with a Mode setting, how does the drive know when the library has given up? Hence, Rod claimed that the standard needs a command for this purpose. Paul Suhler agreed to bring a proposal in for further discussion.

## 7. Next meeting requirements:

Paul Suhler

The group will hold teleconferences on 12 February 2003 (Crossroads may host. If they don't ADIC will host), and 26 February 2003 (IBM will host). Both of these teleconferences will start at 8:00 AM PST and finish at 10:00 AM PST.

The next meeting will occur during the normal plenary week on 10-11 March 2003.

## 9. Review new action items:

Michael Banther

- a. Rod Wideman will incorporate the diagram of the relationship between the ADC device server, data transfer device server, and application client(s) into ADC.
- b. Michael Banther will investigate how SAS specifies cables.
- c. Michael Banther will revise 02-358r4.
- d. Paul Entzel will incorporate 02-358r4 as revised into ADT.
- e. Michael Banther will revise 03-078r0.
- f. Paul Entzel will incorporate 03-078r0 as revised into ADT.
- g. Paul Entzel will incorporate 03-079r0 into ADT.
- h. Michael Banther will revise 03-080r0.
- i. Michael Banther will review ADT for non-link service payload – type incompatibilities.
- j. Paul Suhler will propose Masking of Status on a Load/Unload over the primary port..

## 10. Adjournment:

Group

Paul adjourned the meeting at 9:59 Am PST.

## Attendees:

| Name            | Organization | email                  |
|-----------------|--------------|------------------------|
| Rod Wideman     | ADIC         | rod.wideman@adic.com   |
| Michael Banther | HP           | michael_banther@hp.com |
| Lee Jesionowski | IBM          | ljesion@us.ibm.com     |

|             |                    |                           |
|-------------|--------------------|---------------------------|
| Paul Entzel | Quantum            | paul.entzel@quantum.com   |
| Paul Suhler | Seagate Technology | paul.a.suhler@seagate.com |
| Tuong Vu    | Sony               | tuong.vu@am.sony.com      |
| Kevin Butt  | IBM                | kdbutt@us.ibm.com         |
| Susan Gray  | Quantum            | susan.gray@quantum.com    |