

Draft Minutes
Automation/Drive Interface (ADI) Working Group
Ad Hoc Meeting
T10/08-372
8 September 2008
3:37 pm – 07:00 pm MDT

1 Introductions:

Paul Suhler called the meeting to order at 3:37 PM MDT. He thanked LSI Logic for hosting the meeting.

2 Approval of the agenda:

Paul Suhler reviewed the agenda with the group.

Paul Suhler proposed deferring item 9.1, moving 10.6 to the front of the agenda followed by 9.2 then items 10.1-10.5. Geoffrey Barton requested a new item which Paul Suhler proposed putting at 10.7 and discussing first. The final proposed agenda order was 10.7, 10.6, 9.2, 10.1 – 10.5, 9.3.

Kevin Butt made a motion for acceptance of the agenda as modified. Geoffrey Barton seconded the motion. The group approved the motion unanimously.

3 Attendance and Membership:

Paul Suhler discussed the attendance, membership, and voting rules for this meeting.

The listing below captures the attendance at this meeting:

Name	S	Organization
Mr. Noud Snelder	V	BDT
Mr. Curtis Ballard	A	Hewlett Packard Co.
Mr. Kevin Butt	P	IBM Corp.
Mr. Geoffrey Barton	V	Overland Storage
Mr. Paul Stone	A	Quantum Corp.
Dr. Paul Suhler	P	Quantum Corp.
Mr. Rod Wideman	A	Quantum Corp.
Mr. Dale LaFollette	P	Sun Microsystems, Inc.
Mr. Halvard Eriksen	AV	Tandberg Storage

9 People Present

Status Key: P - Principal
A - Alternate
AV - Advisory Member
E - Emeritus
L - Liaison
V - Visitor

4 **INCITS Patent Policy:**

Paul Suhler presented the INCITS patent policy slides from http://www.incits.org/pat_slides.pdf providing the advice as presented in the slides and presenting the three guidance slides.

5 **INCITS Antitrust Guidelines**

Paul Suhler reviewed the guidelines around avoidance of antitrust issues and pointed out that the previously presented slides provided guidance on the antitrust policy.

6 **Approval of previous meeting minutes:**

14 July 2008 meeting [08-291r1](#)

13 August 2008 teleconference [08-329r0](#)

Paul Suhler requested comments for the minutes of the 14 July 2008 meeting and the 13 August 2008 teleconference (see above). No one provided comments or corrections. Rod Wideman moved and Halvard Eriksen seconded that the previous meeting minutes be accepted. The motion passed unanimously.

7 **Call for secretary [Suhler]:**

Paul Suhler noted that ADI remains without a permanent secretary. He asked if anyone wished to volunteer to fill this role. No one volunteered, so Paul encouraged participants to consider taking up the role. Curtis Ballard agreed to serve as secretary for this meeting.

8 **Review of action items:**

08-022 Paul Stone to incorporate [08-226r1](#) into ADC-3. *Complete adc3r00d*

08-023 Paul Stone to incorporate [08-148r0](#) into ADT-2. *Complete adt2r05d*

08-026 Geoffrey Barton to create a proposal for item 12 in [08-147r1](#) per old business item 9.3 of [08-291r0](#). *Carryover*

08-027 Paul Suhler to revise [07-469r7](#) and post. *Complete 07-0469r8*

08-028 Rod Wideman to revise [08-021r2](#) and post. *Carryover*

9 **Old business:**

9.1 **ADC-3 SET AUTOMATION DEVICE ATTRIBUTE command ([08-021r2](#)) [Wideman]**

This item was deferred at the author's request.

9.2 **ADT-2: Internet ADT (iADT) ([07-469r7](#)) [Suhler]**

This item was deferred due to lack of time.

9.3 **ADI: Features for ADC-3 and ADT-3 ([08-147r2](#)) [Suhler]**

This item was deferred due to lack of time.

10 New Business

10.1 **ADC-3: Remove Configure Encryption Policy mounted volume restriction ([08-247r1](#)) [Wideman]**

This item was deferred due to lack of time.

10.2 **ADC-3: Remove Note 1 (no proposal) [Suhler]**

This item was deferred due to lack of time.

10.3 **Version code for ADC-3 and ADT-2 (no proposal) [Suhler]**

This item was deferred due to lack of time.

10.4 **ADC-3: I_T Nexus Loss Effect on Bridged Commands ([08-301r0](#)) [Suhler]**

This item was deferred due to lack of time.

10.5 **TapeAlert Response (ADC-3) vs TapeAlert Supported Flags (SSC-3), hex or decimal. (Berhan e-mail) [Suhler]**

This item was deferred due to lack of time.

10.6 **iADT: discussions of iADT([07-469r8](#)) proposal ([08-332r0](#)) [Butt]**

Kevin Butt presented his discussion item for network behaviour. The presentation presented the basic networking API then introduced the long-lived vs. short-lived connection lifetime issue. Another issue exists with potential of queued commands.

The presentation also pointed out that the current version required Sense_a to be asserted before a connect would be successful. The group concluded that this requirement should be replaced by a requirement that the Ethernet signal present indication be present.

One discussion item was requesting a standard mechanism be defined for locating the position of a drive using iADT. The group pointed out that several people were aware of mechanisms for detecting the location without requiring additional iADT features. Kevin agreed to go back to his team and determine whether they would require this. Paul Suhler indicated that he would prefer it not be added to the existing iADT proposal but that he would not be opposed to working it in parallel if IBM required agreement before approving iADT.

Paul Suhler led the group through a discussion with a white board discussing the pros and cons of losing the I_T nexus. After thorough discussion the proposal for investigation was that a managed connection loss (such as one using PAUSE) would not cause an I_T nexus loss but that an unmanaged connection loss (such as an unexpected device reset) would cause a connection loss.

10.7 **Discussion of RESET_a line behavior**

Geoffrey Barton reported that he had only heard back from one company on how the reset line should behave. Halvard Eriksen stated that Tandberg felt that the duration needed to be increased to allow filtering noise. Paul Suhler reported that they used a software filter to verify that the signal remained asserted for the full 1.5 us after the signal became asserted. Geoffrey

stated that he felt that as defined a transition could occur on both edges of the signal, Rod Wideman pointed out that it was defined as a transition from 0.3 volts to 0.7 volts which would define the edge. Halvard asked if we should define the reset as edge triggered or level triggered. Geoffrey indicated that he felt it should be edge triggered.

The working group concluded that the current definition was unclear and that a proposal was needed to clarify the definition.

11 Next meeting requirements:

The group will hold a meeting on 3 November 2008 during T10 plenary week in Santa Ana, CA beginning when the SMC-3 working group adjourns and concluding at 7:00 PM MDT.

The group will hold a teleconference on 8 October, 2008 from 8:00 AM PDT to 10:00 AM PDT hosted by Quantum.

12 Review action items:

08-026 Geoffrey Barton to create a proposal for item 12 in [08-147r1](#) per old business item 9.3 of [08-291r0](#).

08-028 Rod Wideman to revise [08-021r2](#) and post.

08-029 Geoffrey Barton to write a proposal to clarify the RESETa signal behavior

08-030 Paul to revise and 07-469r8

13 Adjournment:

Rod Wideman made a motion for adjournment. Geoffrey Barton seconded the motion. The group passed the motion unanimously. Paul Suhler adjourned the group at 7:00 PM MDT.