Draft Minutes
Automation/Drive Interface (ADI) Working Group
Ad Hoc Meeting
T10/08-104r0
13 February 2008
8:06am – 9:58am PST

1 Introductions:

Paul Suhler called the teleconference to order at 8:06am PST.

2 Approval of the agenda:

Paul Suhler reviewed the agenda with the group.

Paul Suhler recommended that item 7.3 be moved to the start of the agenda.

Rod Wideman made a motion for acceptance of the agenda as modified. Paul Stone 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:

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Name                                S    Organization
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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. Jon Allen                       A    Sun Microsystems
Mr. Halvard Eriksen                 AV   Tandberg Storage
Mr. Georg Boasson                   AV   Tandberg Storage

10 People Present

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

Paul Suhler briefly discussed the INCITS patent policy and directed interested individuals to the T10 short summary at http://www.t10.org/patpol.htm. Paul Suhler also reviewed the rules around avoidance of anti-trust issues.

5   Approval of previous meeting minutes:

14 January 2008 meeting   08-042r1

30 January 2008 meeting   08-098r0

Paul Suhler requested comments for the minutes of the 14 January 2008 meeting, 08-042r1 and the minutes of the 30 January 2008 teleconference, 08-098r0. No one provided comments or corrections.

6   Review of action items:

07-060   Paul Suhler will revise 07-438r0 per Old Business item 9.3 of 07-477r0. *Carryover*.

07-061   Paul Suhler will revise 07-469r0 per New Business item 10.2 of 07-477r0. *Carryover*.

08-002   Curtis Ballard to revise 08-029r1 and post as 08-029r2 per Old Business item 8.1. *Complete*

08-003   Paul Stone to incorporate 08-029r2 into r0 ADC-3. *Carryover*

08-004   Paul Stone to request assignment of new sense codes from SPC-4 editor. *Complete*

7   Call for secretary [Suhler]

Paul Suhler noted that the ADC working group does not have a secretary at this time . 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 teleconference.

8   Old business:

8.1   *ADC-3 Automation Device Serial Number subpage (08-021r0) [Wideman]*

Rod Wideman presented 08-021r0 to address an item from the ISV request for input in SSC.

Group discussed inclusion of removing the 'b' subscript from the target device serial number subpage as part of this proposal and agreed that change was appropriate and could be included in this proposal.

The group discussed the possibility of adding a VPD page for the ADC device server to report the serial number that has been set. The group determined that reading the serial number back via a mode page is sufficient and recommended that the VPD page be dropped.

Kevin Butt requested clarification for why we couldn't use the remote SMC logical unit serial number. Rod Wideman explained that it was because the remote SMC logical unit serial number is tied to bridging but this needs to work when bridging is not enabled.

Kevin Butt asked if the reference to SMC-2 was appropriate. Paul Suhler requested that we table the discussion and discuss references to other standards in March. Rod Wideman indicated that he though we attempted to reference approved standards unless required to reference draft standards.

Paul Suhler brought up the question of the variable length field in a mode page. Curtis Ballard responded that he felt mode pages needed to be fixed length and referenced SCP4r12 section 6.9 which states that a mode select length shall match the length of the mode sense.

The group recommended changing to a fixed length field with a right aligned serial number referencing right aligned verbiage in SPC. The length of the field was discussed with IBM requesting at least 16 and HP requesting at least 20. The group recommended 32 characters.

There was a discussion of whether a field was needed to describe the length of the serial number but with a right aligned value the group determined that was not necessary.

Kevin Butt indicated that rather than having a fixed length field it could be required to be a fixed length but with the actual length not set by the standards.

Rod Wideman asked if we could state that a mode sense before a mode select shall be rejected. Several group members responded that their models always used mode sense first and expect it to succeed.

Rod Wideman asked whether attempting to set this via a mode page was not the correct model and we should consider a different vehicle. Working group recommended a new command which would require a method to read back the value that had been set. Working group guidance was for a matching SET/REPORT command.

Working group recommended a general purpose command modeled off of set medium attribute with only the automation device serial number defined.

8.2   ADT-2: SCSI Command IU to Initiator only port (07-438r0) [Suhler]

A question was raised on what should be done for error recovery. Paul indicated he would research that offline and update the proposal for March.

Working group determined that a recoverable error detected message should be sent which puts the device into the receiver error recovery state matching.

Paul Suhler will continue work on revising this document. Action item 07-060 already exists so no new action item was given.

8.3   ADT-2: ADT over Ethernet (ADToE) (07-469r0) [Suhler]

This item was not discussed due to lack of time.

8.4   ADC-2 Typo in r8 (e-mail from Paul Suhler) [Suhler]

This item was not discussed due to lack of time.

8.5   ADT-3 Project proposal (08-054r0) [Suhler]

This item was not discussed due to lack of time.

9   New business:

There were no new business items.

10   Next meeting requirements:

The group will hold a meeting on 10 March 2008 during T10 plenary week in Raleigh, North Carolina beginning when the SMC-3 working group adjourns and concluding at 7:00 PM EST.

11 Review new action items:

08-005   Paul Suhler to add an agenda item for the March meeting to discuss which standards versions ADC-3 should reference.

08-006   Rod Wideman will revise 08-021r0 per Old Business item 8.3 of 08-104r0.

12 Adjournment:

Rod Wideman made a motion for adjournment. Kevin Butt seconded the motion. The group passed the motion unanimously. Paul Suhler adjourned the group at 9:58am PST.