

Draft Minutes
Automation/Drive Interface (ADI) Working Group
Ad Hoc Meeting
T10/07-021r0
15 January 2007
9:00 AM – 1:00 PM PST
Orlando, Florida

1 Introductions:

Paul Suhler called the meeting to order at 9:01 AM EST. He thanked Symantec for hosting the meeting. A table of the attendees appears at the end of these minutes.

2 Approval of the agenda:

Paul Suhler reviewed the order of the discussion items.

Kevin Butt made a motion for acceptance of the agenda as modified. Robert Payne seconded the motion. In the absence of objections or abstentions, the group approved the modified agenda unanimously.

3 Approval of previous meeting minutes:

11 September 2006 meeting [06-490r0](#)

Paul Suhler requested corrections for the minutes of the 6 November 2006 meeting, [06-490r0](#).

Michael Banther made a motion for acceptance of the minutes as written. Kevin Butt seconded the motion. In the absence of objections or abstentions, the group approved the minutes unanimously.

4 Review of action items:

- 06-001 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*
- 06-048 Michael Banther will revise [05-377r2](#) per discussion item 5.2 of [06-490r0](#). *Closed*, 07-025r1.
- 06-049 Paul Suhler will revise [06-060r3](#) per discussion item 5.4 of [06-490r0](#). *Closed*, 06-060r4.
- 06-050 Kevin Butt will revise [06-468r0](#) per new business item 6.3 of [06-490r0](#). *Closed*, 06-468r1.
- 06-051 Paul Suhler will revise [06-425r0](#) per new business item 6.1 of [06-490r0](#). *Closed*, 06-425r1.

5 Old business:

5.1 **ADC-2 Working List for ISV feedback (SMC/SSC/ADC/SPC) ([05-315r3](#)) [Butt]**

At the author's request, the group deferred discussion of this item until the March meeting.

5.2 **ADT-2 Negotiable Time-Outs ([07-025r1](#)) [Banther]**

Michael Banther walked the group through the proposal. Rod Wideman asked for a change to the title of 4.10.1. Michael agreed to make a change and requested input from the group. Rod suggested 'Acknowledgement time-out period calculation.'

Paul Entzel requested strike-out of the last compound phrase in the last sentence of 4.10.2.1.

Kevin Butt questioned the use of 'wishes' in the second sentence of 4.10.2.2. Rod Wideman suggested changing this sentence to read, 'To discover the acknowledgement IU time-out parameters of the other port forming the link, a port initiates the exchange by sending a time-out IU (see 6.5.X) with the ACTION CODE field set to DISCOVER.' Robert Payne raised a question about the phrase 'the other port forming the link.' The group noted the use of 'other port' elsewhere and debated whether to change the legacy usage. Paul Suhler requested that someone bring in a proposal if they really want the legacy usage changed.

Paul Entzel suggested adding an additional column to Table 12 which contains the support criteria for a port on an automation device. The currently proposed new column then contains the support criteria for a port on a DTD. The group agreed to the entries, 'mandatory', 'prohibited', and 'optional'. The group then moved on to a wide-ranging debate about which IU's are mandatory for a DTD and an automation device including consideration of how mandatory IU support interacts with port login negotiation at a particular level of ADT support. Paul Entzel stated his opposition to having the Device Reset IU as a mandatory IU. After some brief discussion he agreed to keep it mandatory. The group agreed that the Pause and Device Reset IU were prohibited for the automation device.

In table Y+1, the group debated the use of the phrases 'sending port' and 'receiving port'. After a short debate, the group decided to leave the usage as is. Rod Wideman suggested changing the definition of the CURRENT ACKNOWLEDGEMENT IU TIME-OUT field when the ACTION CODE is REQUEST CHANGE to, 'Requested value of the receiving port's acknowledgement IU time-out, in milliseconds.' Rod Wideman suggested changing the definition of the TIME-OUT RESOLUTION when the ACTION CODE field is set to REPORT to, 'Minimum difference'

Rod Wideman and Kevin Butt noted that the phrase 'is set' should read 'set to' in the sentence after the lettered list below table Y+1. A similar mistake appears elsewhere.

Paul Entzel requested strike-out of the phrase 'the value of' in lettered list item b) below table Y+1 and also strike-out the same phrase in the first sentence below the lettered list. Paul suggested changing the phrase, 'closest supported acknowledgement IU time-out value' to 'closest supported value' in item a) of the lettered list. The group requested changes of 'acknowledgement IU time-out value' to 'acknowledgement IU time-out period' in table Y+1.

The group moved on to a discussion of the need for a definition of the time-out discovery exchange. Paul Entzel suggested adding clauses in the definitions for simple link service exchange and time-out discovery exchange. The simple link service exchange has the definition of a simple exchange with the protocol set to link service. The time-out discovery

exchange has the definition of ‘an exchange that consists of a sequence of IUs as specified in 4.10.2.2.’ Michael Banther agreed to make all of these changes.

Michael Banther made a motion for incorporation of 07-025r1 as revised into ADT-2. Paul Entzel seconded the motion.

Kevin Butt noted that the group had not resolved the last editorial note in the proposal. After some debate the group agreed to change the phrase ‘an acknowledgement IU’ to ‘an ACK IU’ in items a) and b) of the lettered list in 6.5.12.4.

In 4.10.2.4, Paul Entzel proposed changing the ‘may’ just before the lettered list to ‘shall’. After some debate, the group agreed to leave the sentence as written.

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

5.3 *ADC-2: NL-Port vs. LN-Port (06-468r1) [Butt]*

Kevin Butt introduced his revisions to this proposal. Paul Entzel clarified with Kevin that he intends to create a late letter ballot comment to carry this change into ADC-2.

Paul Entzel noted that this proposal clashes with a previously vendor-specific set of meanings for the TOPLOCK, P2P, and TOPORD bits. He suggested and Kevin agreed to changes to resolve this concern.

Rod Wideman asked a general question about why a port would attempt to negotiate in one protocol after the other port had rejected negotiation in the other protocol. After some discussion, he agreed that only an editorial change was necessary.

Kevin Butt made a motion to use 06-468r1 as revised to resolve ADC-2 letter ballot comment IBM-66. Rod Wideman seconded the motion.

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

5.4 *ADI: Features for ADC-2 and ADT-2 (06-060r4) [Suhler]*

Paul Suhler reviewed the list of work items for ADT-2 and noted the closure of one item.

5.5 *ADI: Features for ADC-3 and ADT-3 (06-425r1) [Suhler]*

Paul Suhler reviewed the list of work items for ADC-3 and ADT-3. He noted no changes.

5.6 *ADC-2 Letter Ballot Comment Resolution (06-475r1) [Entzel]*

Paul Entzel led the group through ADC-2 letter ballot comment resolution.

6 New business:

No one brought new business to the working group.

7 Next meeting requirements:

Subject to approval by the T10 Plenary, the group will hold a meeting 12 March 2007 during T10 plenary week in Memphis, Tennessee beginning at 9:00 AM CST and concluding at 1:00 PM CST.

Subject to approval by the T10 Plenary, the group will hold teleconferences on 31 January 2007 and 28 February 2007. These teleconferences will begin at 8:00 AM PST and conclude at 10:00 AM PST. HP will host both teleconferences.

8 Review new action items:

- 07-001 Michael Banther will revise 07-025r1 per discussion item 5.2.
- 07-002 Paul Entzel will incorporate 07-025r1 as revised into ADT-2.
- 07-003 Kevin Butt will revise 06-468r1 per discussion item 5.3.
- 07-004 Paul Suhler will revise 06-060r4 per discussion item 5.4.
- 07-005 Michael Banther will prepare a proposal to resolve ADC-2 letter ballot comment HPQ-84.
- 07-006 Michael Banther will organize the teleconferences on 31 January and 28 February and will post a notice for each on the T10 reflector.

9 Adjournment:

Rod Wideman made a motion for adjournment. Robert Payne seconded the motion. The group passed the motion unanimously. Paul Suhler adjourned the group at 2:04 PM EST.

Attendees:

Name	Status	Organization
Mr. Noud Snelder	V	BDT
Mr. Michael Banther	A	Hewlett Packard Co.
Mr. Curtis Ballard	V	Hewlett Packard Co.
Mr. Kevin Butt	A	IBM Corp.
Mr. Robert Payne	P	Iomega
Mr. Geoffrey Barton	V	Overland Storage
Mr. Paul Entzel	P	Quantum Corp.
Dr. Paul Suhler	A	Quantum Corp.
Mr. Rod Wideman	V	Quantum Corp.
Mr. Roger Cummings	P	Symantec

Status Key: P - Principal
 A,A# - Alternate
 AV - Advisory Member
 L - Liaison
 V - Visitor