

TO: T10 Membership
FROM: Paul A. Suhler, Quantum Corporation
DATE: 15 January 2007
SUBJECT: T10/06-060r5, Features for ADC-2 and ADT-2

06-060 Revision 5

- Changed item 25 to completed.

06-060 Revision 4

- Dropped items 8 and 21.
- Corrected name of state machine in item 24.

06-060 Revision 3

- Physical model incorporated in SSC-3.
- Reservation passthrough deferred to ADC-3.

06-060 Revision 2

- July 2006 updates.

06-060 Revision 1

- Dropped item 1, closed item 12, and assigned item 28.
- Added item 33 and assigned to Paul Entzel.

06-060 Revision 0

- Reopened item 1 and tentatively assigned to Michael Banther.
- Assigned item 18 to Paul Suhler.
- Clarified title of item 25.

04-263 Revision 9

- Dropped items 16, 20, and 29.
- Added document numbers as available.

Revision 8

- Closed item 27, clarification of Buffer Offset fields in SCSI IUs.

Revision 7

- Added item 27, clarification of Buffer Offset fields in SCSI IUs.

Revision 6

- Dropped items 4 and 26.
- Assigned item 25 to Michael Banther.

Revision 5

- Added status of items.
- Listed individual assigned each item.
- Added WORM to media types to be reported (item 26).

Revision 4

- Priority of each feature.
- State machine changes.
- New IUs.

Revision 3:

- Add density override to RMC LU descriptor.
- Clarify interactions of RMC and ADC device servers, physical device, and DT device.
- Modify model section to allow automation and DT devices with no ADT ports.
- Specify method to prepare and to retrieve dumps.
- Consolidated redundant entries for automation firmware update.

Revision 2:

- Modified description of real-time clock to refer to proposal against SPC-x.

Revision 1:

- Investigate whether ADC should address failover in multi-port drives.

04-263 Revision 0:

- Change “Device Status” to “Device Statistics” log page to TARGET LOG PAGES well-known logical unit.
- Consider interaction of the VHF Data WRTP bit and WORM media

03-133 Revision 9:

- Address Device Status log page to TARGET LOG PAGES well-known logical unit.

Revision 8:

- Mechanism for automation device to update its firmware from a medium in a DTD via the ADT.
- Resolve how the local SMC device server handles INQUIRY for page 83h with association = 2 (target device).

Revision 7:

- Add support to ADC DTD Primary Port Status log parameter and DTD Primary Port mode descriptor for SAS and possibly iSCSI.

Revision 6:

- Simplification of retryable error recovery.

Revision 5:

- Smaller ADI connector

Revision 4:

- Added a section to this document for feature descriptions that are not available in either T10 proposals or minutes.
- Identification Descriptor sub-page for ADC Device Configuration mode page.

Revision 3:

- Real-Time Clock
- Volume Identifier

Number	Feature	Affected Standards		Priority	Proposal documents	Minutes
		ADC-2	ADT-2			
						Business item f
10	ADC support for SAS and iSCSI. [iSCSI dropped]	X		H	None	12 July 2004 ADI WG meeting, 04-199r0 , ADC LB comment Seagate-41.
11	Mechanism for automation device to update its firmware from a medium in a DTD via the ADT port.	X		M	ADC LB comment Seagate-25	8 July 2003 ADI WG meeting, 03-236r0 ; and 29 July 2004 ADI WG teleconference, 04-244r0
12	How does the local SMC device server handle INQUIRY for page 83h with association = 2 (target device)? [Banther 05-310]	X		M	ADC LB comment HP-88	29 July 2004 ADI WG teleconference, 04-244r0
13	Address Device Statistics log page to TARGET LOG PAGES well-known logical unit. Add parameters to Device Statistics log page.	X		L	ADC LB comment HP-172	9 August 2004 ADI WG teleconference, 04-256r1 , item 5a.
14	Consider interaction of the VHF Data WRTP bit and WORM media.	X		H	ADC LB comment HP-159	
15	Investigate whether ADC-2 should address failover in multi-port drives	X		M	ADC LB comment HP-268	16 August 2004 ADI WG teleconference, 04-266r0 , item 5a. Also 04-197r1 .
16	Add density override to RMC LU descriptor [Dropped 7 November 2005]	X		M	ADC LB comment IBM Penokie-414	
17	Clarify interactions of RMC and ADC device servers, physical device, and DT device. [Assigned to Suhler in SSC-3, 05-049]	X		L	None	13 – 14 September 2004 ADI WG meeting, 04-304r0 .
18	Modify model section to allow ADs and DTDs with no ADT ports. [Suhler, 06-061]	X		L	None	
19	Specify method to prepare and to retrieve dumps. [Assigned to Wideman, 05-158; 05-158r1 accepted 7/11/2005]	X		H	ADC LB comment IBM Butt-2	

Number	Feature	Affected Standards		Priority	Proposal documents	Minutes
		ADC-2	ADT-2			
20	Separate state machines for AD ports and DTD ports. [Assigned to Butt]		X	L	ADT LB comment IBM-27	8 November 2004 ADI WG meeting, 04-385r0 .
21	Test IU [Assigned to Butt]		X	L	ADT LB comment IBM 122	
22	Device Reset IU		X	M	04-364r0	
23	ADT Port State Machine, IU Statements in State Sub-clause		X	L	04-369r0	
24	ADT Link Negotiation State Machine, IU Statements in State Description Sub-clause [Assigned to Banther]		X	L	04-381r0	
25	Negotiation of timeouts [Banther, 05-377, 07-025r2]		X	L	05-377 07-025r2	
26	Clarify reporting of data, cleaning, firmware, and WORM media. [Assigned to Wideman]	X		M	None	
27	Clarify use of Buffer Offset field in SCSI Transfer Ready and SCSI Data IUs. [Assigned to Erikson; 05-292r1 accepted 9/12/2005]		X	M	None	11 July 2005 ADI-2 WG meeting, 05-255r0, item 6.2.
28	Add parameters to Device Statistics log page. [Marks 06-183r1]	X		M	ADC LB comment HP-172	9 August 2004 ADI WG teleconference, 04-256r1 , item 5a.
29	ADI bridging failover	X		M		12 September 2005 ADI-2 WG meeting, 05-329r1, item 5.8.
30	TapeAlert exception log page [Assigned to Banther]	X		M		
31	Sense signaling [Assigned to Banther]		X	M		12 September 2005 ADI-2 WG meeting.
32	Raise Max ACK Offset during negotiation as baud rate is lowered [Assigned to Banther]		X	M		
33	Passthrough of reservations [Entzel 06-261r0.] Deferred to ADC-3	X		H		8 May and 10 July 2006 ADI-2 WG meetings

Other References

This section documents requests that are not listed in meeting minutes or T10 documents

1. 4 November 2003 e-mail from Michael Banther

Hi Paul,

I'd like to request an area for consideration in ADI-2. I think that we should investigate altering the definition of the ADC Node Descriptor sub-page (6.2.2.1 in ADCr06) to become an Identification Descriptor sub-page. The Identification Descriptor sub-page would provide a general facility to alter any Identification Descriptor reported in VPD page 83h by a DTD. If we cannot alter the existing sub-page and maintain backwards compatibility, I would like to see the introduction of a new Identification Descriptor sub-page with the intention of making the Node Descriptor sub-page obsolete in a future generation of the standard (no sooner than ADI-3).

Could you please add this subject to the list for ADI-2?

Thanks,

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