

**TO:** T10 Membership  
**FROM:** Paul A. Suhler, Certance  
**DATE:** 2 September 2004  
**SUBJECT:** T10/04-263r2, Features for ADC-2 and ADT-2

**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.

**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

**Revision 2:**

- Automation initiated/mediated DTD diagnostics
- Automation firmware update from tape via a read buffer command

**Revision 1:**

- Control of sense data masking via mode page
- Added links to documents

**Revision 0:**

- Passthrough bridging
- Progress indication

**General**

In the development of Automation Drive Interface standards, ADC and ADT, a number of concepts were discussed which were of insufficient urgency to include in the first generation standards. This document lists those concepts and the affected standards, as well as the documents and meeting minutes which present the most-fully developed presentation of the concepts.

Feature	Affected Standards		Proposal documents	Minutes
	ADC-2	ADT-2		
Passthrough Bridging	X	X	<a href="#">03-077r3</a>	10 – 11 March 2003 ADI WG meeting, <a href="#">03-117r0</a>
Progress Indication	X		<a href="#">ADC-r01</a> , clause 4.2.5	10 – 11 March 2003 ADI WG meeting, <a href="#">03-117r0</a>
Control of Sense Data Masking	X		<a href="#">03-087r1</a>	8 April 2003 ADI WG teleconference, <a href="#">03-159r0</a>
Automation initiated/mediated DTD diagnostics	X		None	8 July 2003 ADI WG meeting, <a href="#">03-236r0</a>
Automation firmware update from tape via a read buffer command	X		None	8 July 2003 ADI WG meeting, <a href="#">03-236r0</a>
Real-Time Clock Control	X		04-271	8 September 2003 ADI WG meeting, <a href="#">03-295r0</a>
Volume Identifier Control	X		None	8 September 2003 ADI WG meeting, <a href="#">03-295r0</a>
Identification Descriptor sub-page	X		1	None
Smaller ADI Connector		X	None	23 February 2004 ADI WG teleconference, <a href="#">04-066r0</a>
Simplification of retryable error recovery.		X	None	8–9 March 2004 ADI WG meeting, <a href="#">04-080r0</a> , Unscheduled Business item f
ADC support for SAS and iSCSI.	X		None	12 July 2004 ADI WG meeting, 04-199r0, ADC LB comment Seagate-41.
Mechanism for automation device to update its firmware from a medium in a DTD via the ADT	X		ADC LB comment Seagate-25	29 July 2004 ADI WG teleconference, 04-244r0
How does the local SMC device server handle INQUIRY for page 83h with association = 2 (target device)?	X		ADC LB comment HP-88	29 July 2004 ADI WG teleconference, 04-244r0
Address Device Statistics log page to TARGET LOG PAGES well-known logical unit.	X		ADC LB comment HP-172	9 August 2004 ADI WG teleconference, 04-256r1, item 5a.
Consider interaction of the VHF Data WRTP bit and WORM media.	X		ADC LB comment HP-159	9 August 2004 ADI WG teleconference, 04-256r1, item 5a.
Investigate whether ADC-2 should address failover in multi-port drives	X		ADC LB Comment HP-268	16 August 2004 ADI WG teleconference, 04-266r0, item 5a. Also 04-197r1.

**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,

Michael Banther  
Hewlett-Packard Ltd.  
Telephone +44 (117) 312-9503