

**TO:** T10 Members  
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**SUBJECT:** ADI SCSI Commands (T10/02-106r4)  
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## 1 Introduction

This is revision 4 of the list of SCSI commands for Automation Drive Interface devices. It incorporates changes decided at the 16 July 2002 working group meeting (minutes 02-239r0 item 6C).

- Removed sections 4 and 5, commands and parameters for SSC devices accessed via ADP.
- Removed section 2 restriction against ADC devices implementing commands not in the table.
- Removed section 3.4 as redundant with a device-specific mode page section in ADC.
- MODE SELECT (10) is now mandatory.
- Removed MODE SENSE (6) and MODE SELECT (6).
- Removed Note 3 (restricting supported buffers) from the commands table.

### 1.1 Avoiding Reservation Conflicts

*The following text may be incorporated in the ADC device model clause.*

The ADP interface shall allow access to two logical units, one an ADC device server and the other an SSC device server. The ADC device server implements four classes of commands:

- Commands which are mandatory for all device types – INQUIRY, TEST UNIT READY, and REQUEST SENSE.
- Commands which must always ignore reservations placed by other initiators – such as LOAD UNLOAD.
- Commands which must ignore reservations for some values of command parameters, such as MODE SELECT.
- Vendor unique commands; the device vendor is responsible for avoiding reservation conflicts.

Commands outside of these four categories are forbidden to be implemented by an ADC device server. No restrictions are placed on which commands may be implemented by the SSC device server.

### 1.2 Log Parameters

We identified the issue that reading Log pages on the ADC device server must not clear the information on the SSC device server, and vice-versa. I've proposed text for this.

### 1.3 Medium Auxiliary Memory

There is text below to prohibit an ADC device server from modifying Host type attributes.

## 2 Commands for ADC Devices

Command	Required	Doc	Notes
INQUIRY	M	SPC-3	
LOAD UNLOAD	M	SSC-2	
LOG SELECT	O	SPC-3	
LOG SENSE	M	SPC-3	

Command	Required	Doc	Notes
MODE SELECT(10)	M	SPC-3	
MODE SENSE(10)	M	SPC-3	
READ ATTRIBUTE	M	SPC-3	
READ BUFFER	O	SSC-2	
READ POSITION	O	SSC-2	1
RECEIVE DIAGNOSTIC RESULTS	O	SPC-3	
REPORT DENSITY SUPPORT	M	SSC-2	
REPORT LUNS	M	SPC-3	
REPORT SUPPORTED OPERATION CODES	M	SPC-3	
REQUEST SENSE	M	SPC-3	
SEND DIAGNOSTIC	M	SPC-3	2
TEST UNIT READY	M	SPC-3	
WRITE ATTRIBUTE	O	SPC-3	
WRITE BUFFER	O	SPC-3	

1 Need to clarify this scenario if this forces a buffer flush.

2 Only self test shall be mandatory.

### 3 Parameters for ADC Devices

#### 3.1 Diagnostic Parameters

TBD

#### 3.2 Log Parameters

Log Parameters of ADC and SSC device servers in the same target shall be independent. That is, changes to Log Parameters caused by either LOG SELECT commands or other device operation of a SSC device server shall not be reflected by changes in the corresponding parameters reported by the ADC device server. Changes in Log Parameters caused by either LOG SELECT commands or other device operation of an ADC device server shall not be reflected by changes in the corresponding parameters reported by the SSC device server.

#### 3.3 Medium Auxiliary Memory attributes

ADC device servers shall not modify attributes of type Host. If the library needs to modify one of these attributes, it shall issue the command to the SSC logical unit.