

To: INCITS T10 Committee  
From: Paul Entzel, Quantum  
Date: 11 July 2007  
Document: T10/07-269r1  
Subject: SPC-4: Update Annex C for ADC-2 changes



## 1 Revision History

Revision 0:  
Initial revision posted to the T10 web site on 6 June 2007.

Revision 1:  
Updated per CAP working group's recommendation to specify MAINTENANCE OUT (OUT) as mandatory if any service action of the command is mandatory.

## 2 Reference

T10/SPC-4 revision 11  
T10/ADC-2 revision 7e  
T10/06-475r4, ADC-2 letter ballot resolution

## 3 General

During the course of resolving letter ballot comments in ADC-2, we have added support for several additional commands and pages. This proposal requests updates to annex C in SPC-4 to reflect these changes and to resolve letter ballot comments HPQ-135 and HPQ-178 which requested these changes.

Proposed additions are in [blue](#), removed text is in ~~crossed-out red~~.

## 4 Changes to SPC-4, Annex C

### 4.1 Table C.2 (Operation codes)

Table C.2 lists all of the opcode values together with the command name and a column for each command set standard showing whether the command is mandatory, optional, vendor specific, or obsolete. Make the following changes to this table (the second column reflects the V column, only rows with requested changes are shown):

OP	V	Description
83h	<a href="#">O</a>	EXTENDED COPY
84h	<a href="#">O</a>	RECEIVE COPY RESULTS
86h	<a href="#">O</a>	ACCESS CONTROL IN
87h	<a href="#">O</a>	ACCESS CONTROL OUT
A2h	<a href="#">O</a>	SECURITY PROTOCOL IN
A3h	<a href="#">M</a>	MAINTENANCE (OUT)
A4h	<a href="#">O</a>	MAINTENANCE (IN)
A9h	<a href="#">O</a>	SERVICE ACTION OUT (12)
ABh	<a href="#">O</a>	SERVICE ACTION IN (12)
B5h	<a href="#">O</a>	SECURITY PROTOCOL OUT

#### 4.2 Table C.10 (Log page codes)

Make the following changes for ADC-2 devices (the third column represents the V column, only rows with requested changes are shown):

Log Page Code	Log Subpage Code	V	Log Page Name
01h	00h	V	Buffer Over-Run/Under-Run
02h	00h	V	Write Error Counter
03h	00h	V	Read Error Counter
04h	00h	V	Read Reverse Error Counter
05h	00h	V	Verify Error Counter
06h	00h	V	Non-Medium Error
07h	00h	V	Last n Error Events
08h	00h	V	Format Status
0Bh	00h	V	Last n Deferred Error or Asynchronous Events
0Ch	00h	V	Sequential-Access Device
0Dh	00h	V	Temperature
0Eh	00h	V	Start-Stop Cycle Counter
0Fh	00h	V	Application Client
10h	00h	V	Self-Test Results
18h	00h	V	Protocol Specific Port
2Fh	00h	V	Informational Exceptions

#### 4.3 Table C.11 (Mode page codes)

Make the following changes for ADC-2 devices (the third column represents the V column, only rows with requested changes are shown):

Mode Page Code	Mode Subpage Code	V	Mode Page Name
<del>0Eh</del>	<del>00h</del>	<del>V</del>	<del>ADC Device Configuration</del>
0Eh	01h	V	Target Device
0Eh	02h	V	DT Device Primary Port
0Hh	03h	V	Logical Unit
0Eh	04h	V	Target Device Serial Number
1Ah	00h	V	Power Condition
1Ch	00h	V	Information Exception

**4.4 Table C.12 (VPD page codes)**

Make the following changes for ADC-2 devices (the second column represents the V column, only rows with requested changes are shown):

VPD page Code	V	VPD Page Name
B1h	V	Manufacturer-assigned Serial Number