

To: Membership of X3T10
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Subject: Key Issues in the SCSI-3 Primary Commands (SPC)

This document is a randomly selected list of SPC issues about which I would like working group guidance.

The MODE SELECT(10) clause says, "Device servers that implement the MODE SELECT(10) command shall also implement the MODE SENSE(10) command." The MODE SENSE(10) clause says, "If the MODE SELECT(10) command is implemented the MODE SENSE(10) command shall be implemented." Based on these statements, a devious target designer could implement MODE SENSE(10) but not MODE SELECT(10). Such a target implementation would be exceptionally nasty for most host software. Can I reverse the sense of statement in the MODE SENSE(10) clause?

Is the standard INQUIRY data SftRe bit still applicable in SCSI-3? Is it protocol specific?

Is the standard INQUIRY data CmdQue bit still applicable in SCSI-3?

The standard INQUIRY data Sync, WBus16, and WBus32 bits are specific to SIP. How should these bits be handled in the SPC? Should I create a protocol-specific field? Or, should I just leave the bits? If I create a protocol specific field, does SftRe somehow map to it too?

Is the following statement correct: "The sense data shall be available if a Auto Contingent Allegiance condition exists for the task set"? Is task set a wide enough boundary for the ACA requirement?

There is a sentence describing the "progress indication" sense-key specific bytes that I do not understand. The sentence is: These fields only apply to the FORMAT UNIT command with the Immed bit set to one. Does this mean that the sense-key specific bytes are valid only while the device server is processing a FORMAT UNIT command?

In item e) under deferred errors, the following sentence worries me: "If a deferred error occurs after a task has entered the enabled state and the task completes successfully, the target may choose to return the deferred error information after the completion of the current command." This seems to conflict with the following previous statement: "If a task terminates with CHECK CONDITION status and the subsequent sense data returns a deferred error that task shall not have been executed."

How should the SPC say that the ILLEGAL REQUEST sense key can indicate that an invalid IDENTIFY message was received?

Should ASC/ASCQ 2F/00 text be changed from, "COMMANDS CLEARED BY ANOTHER INITIATOR" to "TASK SET CLEARED BY ANOTHER INITIATOR"?

In the Control mode page, is the DQue bit valid for SCSI-3?

I am having serious difficulty SAMinizing the definition of the Disconnect-reconnect mode page. I fear that if I do SAMinize, the definitions will be imprecise to the point of uselessness.

I cannot see a way to put the full description of all the READ ELEMENT STATUS parameter pages in the SPC without dropping the whole medium changer device model in the SPC. Help!!!