То:	INCITS T10 Committee.
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Subject:	ADI: Primary port access to ADC mode page 0x0E shall be restricted.

Revision history.

Revision 0 – Initial proposal.

Background information.

ADC-2 Rev-3, chapter 6.2.2.4.3, describes the SMC logical unit descriptor for the logical unit subpage (Page code 0Eh subpage code 03h).

The paragraph in front of the last one, specifies that a MODE SELECT from the device primary port does not have permission to change the ENABLE BIT in the SMC logical unit descriptor.

There are no such restrictions to the primary port access to the ENABLE BITS in the RMC and ADC device server logical unit descriptors.

If the ADC device server is accessible on the primary port, changing any of the logical unit ENABLE BITS from the primary port may have irreversible consequences for the primary port initiators access to any of the device servers. The same may apply to the Port Enable bit in the DT device Primary Port descriptor. (Ref. chapter 4.2.8 in ADC-2).

I have found no obvious reason why the ENABLE BIT in the SMC logical unit descriptor shall be treated differently from the ENABLE BITS in the other DT device logical units.

I would like to present two alternative change proposals for discussion during the Mach 2006 ADI meeting.

Change alternative 1:

In ADC-2, chapter 6.2.2.4.3 SMC logical unit descriptor format, remove the paragraph in front of the last one. The paragraph specifies that the primary port access to the ENABLE BIT in the SMC logical unit descriptor shall be restricted.

Change alternative 2:

The same restriction shall apply the primary port access to the ENABLE BITS in the SMC, ADC and RMC logical unit descriptors.

Changes to chapter 6.2.2.4.2 RMC logical unit descriptor format.

Add the following paragraph between the paragraphs describing the ENABLE BIT and the OFFLINE BIT.

If the ADC device server receives a MODE SELECT command via the DT device primary port, and the parameter data would change the ENABLE BIT of the RMC logical unit descriptor, then the ADC device server shall return a CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN PARAMETER LIST.

Changes to chapter 6.2.2.4.4 ADC logical unit descriptor format.

Add the following paragraph at the end of the chapter.

If the ADC device server receives a MODE SELECT command via the DT device primary port, and the parameter data would change the ENABLE BIT of the ADC logical unit descriptor, then the ADC device server shall return a CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN PARAMETER LIST.