

TO: T10 Membership, ADI Working Group  
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 DATE: April 19th, 2007  
 SUBJECT: ADI ADC-2 Letter Ballot Comment QTM-183 (document T10/07-197r0)

Rev0 – Initial draft.

**Related Documents**

ADC-2 Revision 7  
 ADC-2 Revision 7c  
 T10/06-475r2

**Introduction**

This proposal is intended to address ADC-2 letter ballot comment QTM-183 ( reproduced below from T10/06-475 for convenience).

QTM-183	80	sixth paragraph	T	There is no statement on what happens when the enable bit is changed from one to zero. Do we need the same paragraph as in the SMC logical unit, whereby all commands are aborted and the remaining device servers report a change in logical unit inventory? (Probably also applies to the RMC logical unit subpage).
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**Discussion**

Behavior due to changing the ENABLE bit from one to zero (i.e., disabling access to the device server via the primary port) is not specified for the ADC or RMC logical unit subpages, but is for the SMC logical unit. New text is proposed for both the ADC and RMC logical unit subpages based on the SMC logical unit subpage wording.

**Proposed Changes to ADC-2**

Proposed new text shown in [blue underline](#).

*Changes to 6.2.2.3.2 (As next paragraph in this subclause following the enable bit description paragraph in rev07c):*

An ENABLE bit set to one specifies that the DT device primary port(s) associated with the RMC logical unit shall be responsive to commands and task management requests received on the DT device primary port(s). An ENABLE bit set to zero specifies that the DT device primary port(s) associated with the RMC logical unit shall not respond to commands and task management requests received on the DT device primary port(s) and the associated RMC logical unit number shall not be included in the logical unit inventory (see SPC-3) for all I\_T nexuses associated with a DT device primary port. The ENABLE bit has no effect on the access to the RMC device server through the ADI port.

If the ENABLE bit is changed from one to zero, then the RMC device server shall implicitly abort all commands in its task set received on a DT device primary port and report CHECK CONDITION status with the sense key set to ABORTED COMMAND and the additional sense code set to LOGICAL UNIT COMMUNICATION FAILURE for each command. All remaining device servers (e.g., local SMC device server, ADC device server) in the DT device shall report a change in the logical unit inventory (see SPC-3) to any application clients connected through a DT device primary port. The ENABLE bit changing from one to zero shall have no effect on commands and task management requests received on the ADI port.

*Changes to 6.2.2.3.3 (Editorial in rev07c):*

If the ENABLE bit is changed from one to zero, [then](#) the local SMC device server shall implicitly abort all commands in its task set and report CHECK CONDITION status with the sense key set to ~~COMMAND ABORTED~~[ABORTED COMMAND](#) and the additional sense code set to LOGICAL UNIT COMMUNICATION FAILURE for each command. All remaining device servers (e.g., ADC device server, RMC device server) in the DT device shall report a change in the logical unit inventory (see SPC-3) to any application clients connected through a DT device primary port.

*Changes to 6.2.2.3.4 (As last paragraph in subclause in rev07c):*

An ENABLE bit set to one specifies that the DT device primary port(s) associated with the ADC logical unit shall be responsive to commands and task management requests received on the DT device primary port(s). An ENABLE bit set to zero specifies that the DT device primary port(s) associated with the ADC logical unit shall not respond to commands and task management requests received on that DT device primary port(s) and the associated ADC logical unit number shall not be included in the logical unit inventory (see SPC-3) for all I\_T nexuses associated with a DT device primary port. The ENABLE bit has no effect on the access to the ADC device server through the ADI port.

If the ENABLE bit is changed from one to zero, then the ADC device server shall implicitly abort all commands in its task set received on a DT device primary port and report CHECK CONDITION status with the sense key set to ABORTED COMMAND and the additional sense code set to LOGICAL UNIT COMMUNICATION FAILURE for each command. All remaining device servers (e.g., local SMC device server, RMC device server) in the DT device shall report a change in the logical unit inventory (see SPC-3) to any application clients connected through a DT device primary port. The ENABLE bit changing from one to zero shall have no effect on commands and task management requests received on the ADI port.