To: T10 Technical Committee
From: Rob Elliott, Compaq Computer Corporation (Robert.Elliott@compaq.com)
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Subject: T10/02-070r0 SAM-2 Execute Command output descriptions

Revision History
Revision 0 (11 February 2002) first revision

Related Documents
sam2r21 - SCSI Architecture Model - 2 revision 21 (Ralph Weber)

Overview
The Execute Command() remote procedure call (section 5.1) has 3 output arguments: Data-In Buffer, Sense Data, and Status, described at the top of page 50. The description for Status mentions that it is invalid if the Service Response is SERVICE DELIVERY OR TARGET FAILURE. The Service Response description of SERVICE DELIVERY OR TARGET FAILURE (middle of page 50) says "All output parameters may be invalid." The descriptions of all three outputs should mention that they are invalid, and there should be no allowance for the Data-In Buffer and Sense Data to be considered useable.

Suggested Changes
5.1 The Execute Command remote procedure

…
Output Arguments:
Data-In Buffer: A buffer to contain command specific information returned by the logical unit on command completion. The application client shall not assume that the buffer contents are valid unless the command completes with a status of GOOD, INTERMEDIATE, or INTERMEDIATE-CONDITION MET. While some valid data may be present for other values of status, the application client should obtain additional information from the logical unit, such as sense data, to determine the state of the buffer contents. If the command ends with a service response of SERVICE DELIVERY OR TARGET FAILURE, the application client shall consider this parameter to be undefined.

Sense Data: A buffer to contain sense data returned by means of the autosense mechanism (see 5.8.4.3). If the command ends with a service response of SERVICE DELIVERY OR TARGET FAILURE, the application client shall consider this parameter to be undefined.

Status: A one-byte field containing command completion status (see 5.3). If the command ends with a service response of SERVICE DELIVERY OR TARGET FAILURE, the application client shall consider this parameter to be undefined.

Service Response assumes one of the following values:
TASK COMPLETE: A logical unit response indicating that the task has ended. The status parameter shall have one of the values specified in 5.3 other than INTERMEDIATE or INTERMEDIATE-CONDITION MET.

LINKED COMMAND COMPLETE: Logical unit responses indicating that a linked command has completed successfully. As specified in 5.3, the status parameter shall have a value of INTERMEDIATE or INTERMEDIATE-CONDITION MET.

SERVICE DELIVERY OR TARGET FAILURE: The command has been ended due to a service delivery failure (see 3.1.111) or SCSI target device malfunction. All output parameters ~~may be~~ are invalid.

[Add the same "see 3.1.111" in 6.1, the task management function RPC description]