ENDL
T E X A S

Date: 28 April 2003
To: T10 Technical Committee
From: Ralph O. Weber
Subject: Task Management Incorrect Logical Unit Selection

It has been noted that, while SAM-3 discusses Incorrect Logical Unit Selection at length for command processing (see 5.9.4 in SAM-3 r06), Incorrect Logical Unit Selection is no mentioned at all for Task Management functions.

It is proposed to remedy this oversight by modifying the Service Response for task management functions as shown in blue.

Service Response:

One of the following SCSI transport protocol specific responses shall be returned:

FUNCTION COMPLETE:	A task manager response indicating that the requested function is complete. Unless another response is required, the task manager shall return this response upon completion of a task management request supported by the logical unit or SCSI target device to which the request was directed.
FUNCTION SUCCEEDED:	An optional task manager response indicating that the operation is supported and completed successfully. This task manager response shall only used by operations that require notification of success.
FUNCTION REJECTED:	An task manager response indicating that the operation is not supported by the logical unit or SCSI target device to which the function was directed.
INCORRECT LOGICAL UNIT NUMBER:	An optional task manager response indicating that the operation requested processing for an incorrect logical unit number.
SERVICE DELIVERY OR TARGET FAILURE:	The request was terminated due to a service delivery failure (see 3.1.109) or SCSI target device malfunction. The task manager may or may not have successfully performed the specified function.

Discussion

The requested is optional to provide backwards compatibility with current protocol definitions and product implementations. If the notification of Incorrect Logical Unit Number usage is useful, the optional nature of the new Service Response can be changed at a future date.

The proposed change represents the only behavior that may be observed on the interconnect and thus the maximum extent to which SAM-3 needs to specify anything. No other SAM-3 changes should be necessary.

The proposed change is neutral regarding implementation details and in this way allows the maximum implementation flexibility.