

Command Reference Number (CRN) into SAM-2

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FCP-2 contains a field in the FCP_CMND Information Unit that is defined to be used for the precise delivery of commands based on an I_T_L nexus. Currently there is no way for the application client to provide the value of the CRN.

Issues to resolve:

1. FCP-2 currently uses an 8-bit Command Reference Number. Should be changed to a 32-bit value in FCP-3.
2. Parallel SCSI does not contain the notion of a Command Reference Number. Can be added to SPI-4.

Proposal: Add a field to the Execute Command remote procedure call defined in the SAM-2 document along with the following text:

Service response = Execute Command (IN (I_T_L_x Nexus, Task Address, CDB, [Task Attribute], [Data-In Buffer Size], [Data-Out Buffer], [Data-Out Buffer Size], [Autosense Request], [Command Reference Number]), OUT ([Data-In Buffer], [Sense Data], Status))

Command Reference Number (CRN): For each command the value of the CRN shall be monotonically increasing. The initial or reset value of CRN shall be set to one. The value of zero shall be reserved for use as defined by the lower level protocol.