

To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 2 November 2002
Subject: 02-473r0 SAM-3 Hard reset and multiple port devices

Revision history

Revision 0 (2 November 2002) First revision (based on T10 reflector email on 7 October 2002).

Related documents

sas-r02b - Serial Attached SCSI revision 2b

Overview

Initiator devices

If a multiported target device, perhaps with target ports of different protocols, detects a hard reset with one of its target ports, SAM-3 describes how all the logical units are reset and that the transport protocol defines protocol-specific actions in response. See sam2r03 6.1 and 6.3.2.

What should happen to the other target ports in the target device? Which ports should perform those "protocol-specific actions"? Possibilities include:

- a) only the target port that reported the hard reset
- b) all target ports in the target device
- c) all target ports in the target device that are in the same SCSI domain as the one reporting the hard reset
- d) all target ports in the target device that share the same transport protocol and are in the same domain
- e) all target ports in the target device that share the same transport protocol

Initiator devices

The same question applies to initiator devices, which are advised to terminate all outstanding Execute Command () RPCs on the initiator port that receives the reset.

Should that mean:

- a) only Execute Command()s that were using the initiator port that reported the hard reset;
- b) all Execute Command()s on all initiator ports in the initiator device
- c) all Execute Command()s on all initiator ports in the initiator device that are in the same SCSI domain as the one reporting hard reset
- d) all Execute Command()s on all initiator ports that share the same transport protocol and are in the same domain
- e) all Execute Command()s on all initiator ports that share the same transport protocol

Suggested changes

I think b) is the correct approach for both initiator and target.

In response to a T10 reflector email, one vote for a) was fielded.