To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 2 November 2005
Subject: 05-412r0 SAS-2 revision 0 minor corrections

**Revision history**
Revision 0 (2 November 2005) First revision

**Related documents**
sas2r00 - Serial Attached SCSI - 2 revision 00

**Overview and suggested changes**

***1. The following log page name is wrong.***

**6.7.4.2.3 SAS speed negotiation sequence**

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If the phy does not achieve dword synchronization during the final speed negotiation window, the SAS speed negotiation sequence fails. This is called a phy reset problem and may be counted and reported in the PHY RESET PROBLEM COUNT field in the SMP REPORT PHY ERROR LOG page (see 10.4.3.6) and the ~~REPORT PHY ERROR LOG~~Protocol-Specific Port log page (see 10.2.8.1).

***2. The following state name is wrong (the cross reference is correct). This was introduced by accepting an erroneous letter ballot comment in SAS-1.1.***

**6.8.1 SP state machine overview**

The SP state machine shall maintain a MgmtReset state machine variable to determine whether a Management Reset request has been received. Any SP state that receives a Management Reset request shall set the MgmtReset state machine variable to one before making a transition to the ~~SP7:OOB_AwaitCOMSAS~~SP0:OOB_COMINIT state (see 6.8.3.2). Any SP state that receives a power on, or a hard reset shall set the MgmtReset state machine variable to zero before making a transition to the ~~SP7:OOB_AwaitCOMSAS~~SP0:OOB_COMINIT state.

***3. The management application layer should notice of incoming hard resets. The port layer does forward a HARD_RESET Received confirmation from SL_IR to the transport layers, but the SMP transport layer doesn't forward it to the management application layer because SMP isn't affected. The management application layer is described as interfacing with SL_IR to control IDENTIFY contents and select whether to send HARD_RESET; this is not SMP-related, so sending the confirmation directly from SL_IR is more appropriate than forwarding it through the SMP transport layer. (issue raised by Craig Stoops, Expert I/O)***

**7.9.5.5.3 SL_IR_IRC2:Wait state**

**7.9.5.5.3.1 State description**

If this state receives a HARD_RESET Received message before an Identify Received message is received, this state shall send a HARD_RESET Received confirmation to the port layer and the management application layer and a Stop SNTT request to the phy layer.