Date: 13 June 2002  
To: T10 Technical Committee  
From: Ralph O. Weber  
Subject: Rewrite of SAM-2 example for dependent logical units to remove SCC-isms

SAM-2 letter ballot comments (see 02-155r2) Cisco 10), Compaq 21), Exabyte 37), Exabyte 38), HP 61), and Maxtor 45) all raise issues regarding figure 23 (SAM-2 r23 PDF page 60) and the description of it. This proposal changes figure 23 and rewrites the text describing it in accordance with the current responses to these comments. The intent of this proposal is to allow CAP to review the result of the rewrite without having to pick through the comments responses.

Many changes are made repeatedly throughout the text. To increase readability, the existing text with strikeouts is shown only for the first occurrence of the change.
As shown in figure 1, the hierarchical logical unit structure is an inverted tree containing up to four addressable levels. The example in figure 1 is a three-level system that consists of:

a) One **SCSI initiator device** that has three **SCSI target devices** attached on in a single **SCSI bus domain** that is not expandable, unable to add more **SCSI target devices**. One of the **SCSI target devices** is a dual-ported **SCSI bridge controller** to the **level 1 SDDLU** with dependent logical units (SDDLUs). The **level 1 SDDLU** has two **SCSI target ports**, one in each of the **SCSI domains** containing a **SCSI initiator device**;

b) One **SCSI initiator device** has three **SCSI target devices** attached in a single **SCSI domain** that is expandable, able to add more **SCSI target devices**. One of the **SCSI target devices** contains a dual-ported **SCSI bridge controller** to the **level 1 SDDLU**;

c) The **level 1 SDDLU** has three **SCSI domains** (called buses for hierarchical addressing purposes) with **SCSI target devices** attached and is capable of driving connecting more **SCSI domains**;

   A) Two of the **SCSI domains** contain two **SCSI target devices** each and these **SCSI domains** are unable to add more **SCSI target devices**. One of the **SCSI target devices** is the **level 2 SDDLU**;

   B) One of the **SCSI domains** contains two **SCSI target devices** and is able to add more **SCSI target devices**;

C) The **level 2 SDDLU** has three **SCSI domains** with **SCSI target devices** attached and is capable of connecting more **SCSI domains**;

   a) Two of the **SCSI domains** contain two **SCSI target devices** each and these **SCSI domains** are unable to add more **SCSI target devices**; and

   b) One of the **SCSI domains** contains two **SCSI target devices** and is able to add more **SCSI target devices**.