To: T10 Technical Committee
From: Tim Symons, PMC-Sierra (Tim_Symons@pmc-sierra.com)
Date: 9 July 2006
Subject: 06-326r0 SAS-2 SMP Zone Lock Timer

Revision Information

- Revision 0: First draft.

Referenced Document

Sas2r04 Serial Attached SCSI – 2 (SAS-2) r4a
06-286r0 SAS-2 Zone Management lock functions (Tim Symons, PMC-Sierra)
06-288r0 SAS-2 SMP ACTIVATE ZONE UPDATE functions (Tim Symons, PMC-Sierra)
06-289r1 SAS-2 SMP ZONE LOCK RELEASE (Tim Symons, PMC-Sierra)

Overview

This proposal is for an SMP zone lock timer event to provide a timely and automated release from the zone management lock state of zoning expanders. The timer shall be supported by all zoning expander devices and zone management client devices. The timer shall be activated when a zone management client locks a zoning expander device. It shall be reset every time an SMP zone locked function is processed. If the timer expires then the zoning expander device shall:

a) release it's lock;
b) ignore any shadow register values; and
c) originate a BROADCAST (Change) to zone group 1.

The use of a timer ensures that if any locked device, including the zone management client device, fails to respond within a defined [tbd] period then all devices revert to their original state, and the lock is released.

There are no request or response functions for this operation.

[Suggested addition to SAS-2 existing text (included in black), new additional text (included in blue) and changes between revisions shown in red]