

To: T10 Technical Committee  
From: Tim Symons, PMC-Sierra (Tim\_Symons@pmc-sierra.com)  
Date: 4 July 2007  
Subject: 07-306r0 SAS-2 Route table discovery process

### Revision Information

- Revision 0: First draft.

### Referenced Document

sas2r10 Serial Attached SCSI – 2 (SAS-2) revision 10

### Overview

Fixes for SAS2r10 Editors Notes: 7, 10 and 11

A self-configuring expander device completes it's route table through the discovery process. ZONE GROUP field values are reported in the DISCOVER response for each phy. For ports that are not directly attached to the expander device, the ZONE GROUP field information is reported in DISCOVER responses from attached zoning expander devices but it is not clear in the text that this information should be added to the zone route table.

This proposal adds definition to the discovery process for zone group retrieval.

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[Suggested additions to SAS-2 existing text (included in black), new additional text shown in red  
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## 4.7 Discover process

### 4.7.1 Discover process overview

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Editor's Note: This text originates from 2nd paragraph on page 87.  
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If an expander device is attached, the management application client shall use the SMP REPORT GENERAL function (see 10.4.3.3) to determine how many phys are in the expander device and then use the SMP DISCOVER function (see 10.4.3.8) or the SMP DISCOVER LIST function (see 10.4.3.14) to determine what is attached to each expander phy (e.g., the device type, SAS address, and supported protocol(s)). **The management application client shall use the SMP DISCOVER response (see 10.4.3.8) or SMP DISCOVER LIST response (see 10.4.3.14) values to complete the route table of expander devices. A zoning expander device shall use the ZONE GROUP field values to complete the zoning expander route table for all addresses in the zone route table (see 4.9.3.4).**

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