

To: T10 Membership SAS Working Group

From: Ron Roberts Adaptec, Inc

Date: April 29, 2002

Subject: SAS PHY CONTROL request modifications

Reason: To allow vendor unique controls for skew rates, power level, etc. on a PHY by PHY basis. Initiator and or management software would be responsible for understanding and controlling the device's PHY settings, and adjust accordingly.

This proposal recommends the PHY Control request be increased from 8 bytes to 12 bytes, allowing 4 bytes of control information.

7.4.4.8 PHY CONTROL function

The PHY CONTROL function may implemented by any type of device.

Table 82 defines the request format.

Table 82. PHY CONTROL request

Byte	7	6	5	4	3	2	1	0
0	FUNCTION (90h)							
1	Reserved							
2	Reserved							
3	PHY IDENTIFIER							
4	PHY OPERATION							
5	MINIMUM PHYSICAL LINK RATE				MAXIMUM PHYSICAL LINK RATE			
6	NUMBER OF LOGICAL LINKS							
7	Reserved							
<u>8</u>	<u>VENDOR UNIQUE</u>							
<u>9</u>	<u>VENDOR UNIQUE</u>							
<u>10</u>	<u>VENDOR UNIQUE</u>							
<u>11</u>	<u>VENDOR UNIQUE</u>							