

To: T10 Technical Committee  
 From: Steve Johnson LSI Logic (steve.johnson@lsi.com)  
 Date: 14 January 2007  
 Subject: 06-303r0 SAS-2 Address Resolved Configuration

**Revision history**

Revision 0 (14 January 2007) First revision

**Related documents**

sas2r07 - Serial Attached SCSI 2 revision 7  
 07-038r0 SAS-2 Expander Route Table (CONFIGURE ADDRESS RESOLVED)

**Overview**

Add the zone address resolved requested bit to the SMP REPORT GENERAL response.

This bit should be set by non zoning expander to indicate that all it's attached end devices should be added to the attached zoning expanders address resolved routing table. This is configured by the zone manager using the SMP CONFIGURE ADDRESS RESOLVED function.

**Suggested changes**

Add the new REQUEST ADDRESS RESOLVED bit to the SMP REPORT GENERAL response.

Table 1 defines the response format.

**Table 1 — REPORT GENERAL response (part 1 of 2)**

Byte\Bit	7	6	5	4	3	2	1	0
0	SMP FRAME TYPE (41h)							
1	FUNCTION (00h)							
2	FUNCTION RESULT							
3	RESPONSE LENGTH (0Ch)							
4	(MSB)	EXPANDER CHANGE COUNT						(LSB)
5								
6	(MSB)	EXPANDER ROUTE INDEXES						(LSB)
7								
8	Reserved							
9	NUMBER OF PHYS							
10	TABLE TO TABLE SUPPORTED	Reserved	<a href="#">ZONE ADDRESS RESOLVED REQUESTED</a>	ZONE ADDRESS RESOLVED SUPPORTED	CONFIGURES OTHERS	CONFIGURING	EXTERNALLY CONFIGURABLE ROUTE TABLE	
11	Reserved							

Table 1 — REPORT GENERAL response (part 2 of 2)

Byte\Bit	7	6	5	4	3	2	1	0
12	ENCLOSURE LOGICAL IDENTIFIER							
19	ENCLOSURE LOGICAL IDENTIFIER							
20	Reserved							
29	Reserved							
30	(MSB)	STP BUS INACTIVITY TIME LIMIT						(LSB)
31	STP BUS INACTIVITY TIME LIMIT							
32	(MSB)	STP MAXIMUM CONNECT TIME LIMIT						(LSB)
33	STP MAXIMUM CONNECT TIME LIMIT							
34	(MSB)	STP SMP I_T NEXUS LOSS TIME						(LSB)
35	STP SMP I_T NEXUS LOSS TIME							
36	Reserved			ZONE LOCKED	PHYSICAL PRESENCE SUPPORTED	PHYSICAL PRESENCE ASSERTED	ZONING SUPPORTED	ZONING ENABLED
37	Reserved							
38	(MSB)	MAXIMUM NUMBER OF ROUTED SAS ADDRESSES						(LSB)
39	MAXIMUM NUMBER OF ROUTED SAS ADDRESSES							
40	ACTIVE ZONE MANAGER SAS ADDRESS							
47	ACTIVE ZONE MANAGER SAS ADDRESS							
48	(MSB)	ZONE LOCK INACTIVITY TIME LIMIT						(LSB)
49	ZONE LOCK INACTIVITY TIME LIMIT							
50	Reserved							
51	Reserved							
52	(MSB)	CRC						(LSB)
55	CRC							

[A ZONE ADDRESS RESOLVED REQUESTED bit set to zero specifies that an attached zoning expander with the ZONE ADDRESS RESOLVED SUPPORTED bit \(see 10.4.3.3\) set to one shall set the ZONE ADDRESS RESOLVED bit \(see 10.4.3.7\) to zero. A ZONE ADDRESS RESOLVED REQUESTED bit set to one specifies that an attached zoning expander with the ZONE ADDRESS RESOLVED SUPPORTED bit \(see 10.4.3.3\) set to one shall set the ZONE ADDRESS RESOLVED bit \(see 10.4.3.7\) to one.](#)