LUN value meaning unspecified LU

PROBLEM: In management applications (and possibly elsewhere), the need sometimes arises to indicate explicitly that the value for a parameter is not specified. It is not always practical to add a flag for each parameter indicating this situation. In trying to extend the Fibre Channel HBA API to handle some unforeseen configurations, it has become necessary to indicate that a required LUN field within a fixed larger structure does not contain a specific LUN.

PROPOSAL: It was originally thought to use an otherwise reserved LUN to indicate that a real LUN is not specified; however, this risks that the reserved LUN may someday be defined for another purpose. It is proposed in the following to define a LUN that references no entity whatsoever. A currently reserved extended address method and a method specific address within that extended address method are recommended for this purpose.

PROPOSED CHANGES to SAM3R01:

Change table 16 to

Table 16 — Logical unit extended address methods

EXTENDED ADDRESS METHOD Code	LENGTH Code(s)	Description	Reference
0h	00b-11b	Reserved	
1h	00b	Well known logical unit	4.13.3
1h	01b-11b	Reserved	
2h-Eh	00b-11b	Reserved	
Fh	00b-10b	Reserved	
Fh	11b	Logical unit not specified	4.13.4

Add the following subclauses after 4.13.3

4.13.4 Logical unit not specified

A logical unit not specified extended address method LUN shall be used to indicate that no logical unit of any kind is specified.

See table 18 for the format of a LUN using the logical unit not specified extended address method.

Table 18 — Logical unit not specified extended address method format

Bit Byte	7	6	5	4	3	2	1	0
0	1	1	LENGTH (11b)		Logical unit not specified (Fh)			
1	FFh							
2	FFh							
3	FFh							
4	FFh							
5	FFh							
6	FFh							
7	FFh							