EXTENDED COPY: IPv4 Target Descriptor

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Proposal: add a new EXTENDED COPY target descriptor specific to IPv4 into SPC-2.

Descriptor type code: E5h   IPv4 target descriptor

Table 1: IPv4 target descriptor format

Bit Byte	7	6	5	4	3	2	1	0
0	DESCRIPTOR TYPE CODE (E5h)							
1	Reserved		NUL	PERIPHERAL DEVICE TYPE				
2	Reserved							
3	Reserved							
4	(MSB)	LOGICAL UNIT NUMBER						
11								(LSB)
12	(MSB)	IPV4 ADDRESS						
15								(LSB)
16	Reserved							
21								
22	(MSB)	PORT NUMBER						
23								(LSB)
24	Reserved							
25								
26	(MSB)	PROTOCOL IDENTIFIER						
27								(LSB)
28	Device type specific parameters							
31								

The DESCRIPTOR DEVICE CODE, PERIPHERAL DEVICE TYPE and NUL fields and the device type specific parameters are described in 7.5.6.1.

The LOGICAL UNIT NUMBER field specifies the logical unit within the SCSI device addressed by the data in the IPV4 ADDRESS, PORT NUMBER, and PROTOCOL IDENTIFIER fields that shall be the target (source or destination) for EXTENDED COPY operations.

The IPV4 ADDRESS field shall contain the IPv4 address to be used when this target descriptor identifies the source or destination of an EXTENDED COPY operation. Refer to RFC 791 for a description of an IPv4 address.

The PORT NUMBER field shall contain the port number for the IPv4 address to be used when this target descriptor identifies the source or destination of an EXTENDED COPY operation.

The PROTOCOL IDENTIFIER field shall contain the protocol identifier as specified in RFC 790.