Accredited Standards Committee
X3, Information Processing Systems

Doc: X3T10.1/96a140r1
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Ref Doc.: SSA-S3P rev 1
Reply to: John Scheible

To: X3T10.1 Membership
From: John Scheible

Subject: Third party support proposal for S3P

BACKGROUND

SSA-S2P chose not to support third party commands (Copy, Copy and Verify, Reserve, and Release) until the method of doing these commands on an interface with more than a 3 bit address space. Since then, SPC has come up with a way using the 8 byte identifier.

This means that the devices supporting third party copy must have enough knowledge of the web to convert the Unique Ids into path, return path id, and port numbers. There are three methods of supporting this.

1) Require devices supporting third party commands to be Configutors.

2) Add new messages that allow a Responder to get the necessary information from a Configutor.

3) Make the 8 bytes be return path id to and from the respective device.

Option 1) is easy but restrictive. Option 2) would require support of new messages, Option 3) would require the SSA-S3P layer to perform the modification of the command parameter list.

PROPOSAL

This proposal takes the easy way out and requires devices supporting third party commands to be Configutors.

The proposal makes the following changes...

1) Replace clauses 9.6, 9.6.1, and 9.6.2 with the clauses shown on the following page.

Sincerely,

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9.6 Third party commands

Third party commands are supported in SSA-S3P by using the devices Unique ID as the 8 byte identifier.

RESERVE (10) and RELEASE (10) are supported by setting the LONGID bit and using the Unique ID as the identifiers in parameter list.

COPY, COPY AND VERIFY and COMPARE are supported by using the Unique ID as the identifier in the Segment Descriptor.

Only Configutors may support third party commands.

9.7 Optional SCSI-3 features not supported in SSA-S3P

The following optional SCSI-3 features are not supported in SSA-S3P.

9.7.1 Commands with small device addresses

The following commands are not supported due to the 3 bit address space. The 10 byte CDB versions are supported.

    a)   RELEASE (6)
    b)   RESERVE (6)

9.7.2 Terminate Task message

SSA-S3P does not support the Terminate Task message, due to lack of implementation in today's parallel SCSI products and the testing difficulties.