



APPLICATION NOTE:



APPLICATION: BACKING UP DISTRIBUTED COMPUTERS WITH THE MICROSOFT BACKUP APPLICATION AND SPECTRA LOGIC SPECTRA 2K iSCSI LIBRARY

Most small businesses have a small computing environment and limited expertise in computing and networking. Nonetheless, they have critical data that must be protected. They want a low cost backup solution that works in their existing environment and is easy to operate.

The Spectra Logic 2K Ethernet library is one of the solutions. The library has a built-in iSCSI to SCSI translation engine. It uses Ethernet to connect to the PC. This networking capability allows the user to share the library among PCs on an IP network .

Ethernet is a mature technology familiar to many organizations. Ethernet uses RJ45 connectors similar to RJ21 connectors on telephones. Connecting an Ethernet cable is as simple as hooking up a phone jack.

Sharing the tape library takes three steps. First, the user installs the Microsoft iSCSI driver and RSM on the PCs. Second, the user allocates media to the PCs. In the Microsoft backup application, the user moves the tapes from the unrecognized media pool to the free media pool. Make sure that no two PCs use the same tape. Lastly, the user divides the backup window among the PCs and schedules the PCs to run backup in each of the time slot. If a PC is trying to access a library that is in use, the PC will get a busy signal and will retry. The user can set a value for the number of retries.

Below is a sample configuration.

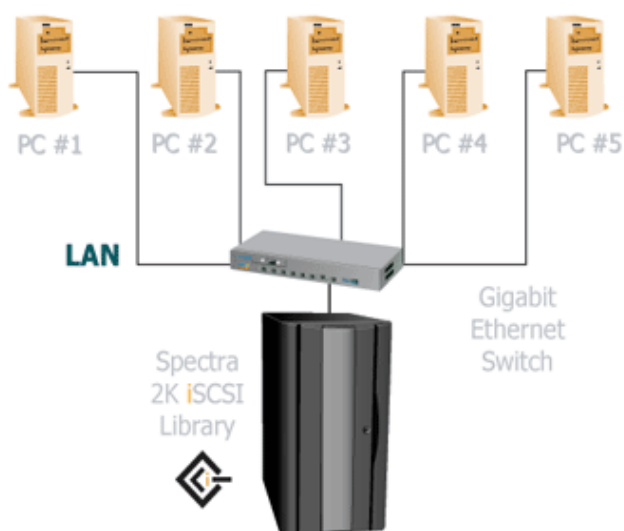
USER ENVIRONMENT:

Five Windows 2000, XP or 2003 PCs connect to a fast Ethernet switch. Each has 30GB of user data.

INSTALLATION:

- Purchase a 15 slot, 1 AIT 2 drive, Spectra 2K iSCSI (\$6950 list) and 15 tapes. An AIT2 drive can back up 21.6GB of uncompressed data in an hour.
- Connect the Spectra 2K to the Ethernet switch.
- Install the Microsoft iSCSI driver and RSM on every PC.
- Open the Windows backup application on the PC
- Assign 3 tapes to each PC.

- Divide the 10 hour backup window into 5 equal time slots
- Schedule the PCs to run backup in each of the time slot



SOLUTION COST:

1 AIT2 Spectra 2K \$6950 (list)
 Ethernet NIC \$0
 One switch port \$50
 Microsoft Backup Application \$0
 Microsoft iSCSI Driver \$0
 15 Tapes \$900
 Total \$7900
 Cost per PC \$1580 (all pricing subject to change)

ADDITIONAL REFERENCES

- [Spectra Logic iSCSI Interoperability Matrix](#)
- [Microsoft iSCSI and RSM Installation Guide](#)
- [Microsoft iSCSI driver download](#)
- [Spectra Logic iSCSI support web page](#)
- [Spectra Logic iSCSI product page](#)

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