

Recovery of Sun/StorageTek VTSM Migration Tapes (VSM4)

What happens when organizations need to restore archive tapes in volume from a mainframe environment?

- **Real Tape Volume (RTV)** is a physical tape with one logical volume.
- **Virtual Tape Volume (VTV)** is a backup tape that exists in a VSM cache or on a migration tape.
- **Migration Tape** is a physical archive tape produced by the VSM. Each tape contains multiple VTVs.

THE PROBLEM

Since E-Mails are now being backed up via mainframe, there is a need to recover more Virtual Tape Volumes (VTVs) for litigation purposes. However, VTVs cannot be read like Real Tape Volumes (RTVs). They contain the same data, but cannot be accessed in the same way.

THE CHALLENGE

To turn VTVs into RTVs, a client must read migration tapes back into a Virtual Storage Manager (VSM) and then access volumes through the backup application. This reduces production volume. Clients can turn VTVs into RTVs using Sun's native "RTV Utility" but this is time consuming, as Sun's RTV Utility is not licensed separately.

THE SOLUTION

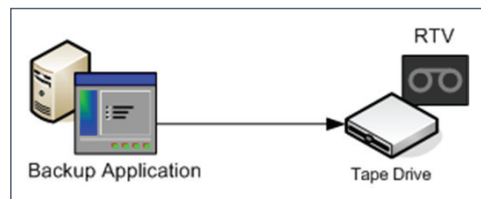
Virtual Storage Manager (VSM) software virtualizes tape drives within a hardware appliance that:

- Connects to IBM or Unisys Mainframes;
- Acts like multiple physical tape drives;
- Stores tape volumes virtually;
- Keeps active volumes cached;
- Writes volumes that are less active to physical tape.

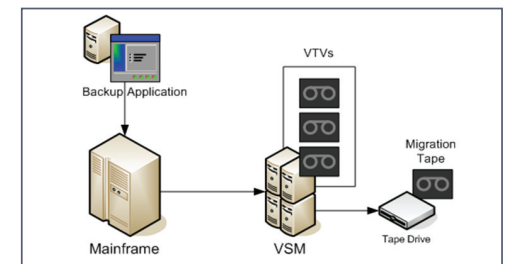
eMag Solutions allows organizations to read and restore discoverable data directly from virtual tape and provides all of the advantages of full backup methodology while using the extremely efficient mainframe environment. eMag can recover tapes without the original VSM catalog or the need to rebuild the mainframe/virtual environment & currently supports VSM4, with ability to translate solutions to VSM5 and VSM6 as well. We also restore virtual tape without tying up massive production capabilities. To accomplish this in house, each migration tape would produce multiple RTVs, which require:

- Sequencing time
- A second restoration effort
- Many cartridges OR large space on BlueArc

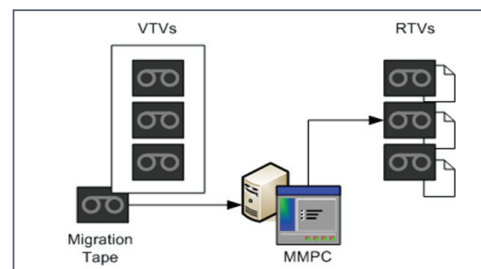
Traditional Tape Backup Within UNIX or Windows environment



Virtual Tape Backup From data created in Windows/UNIX environment



Restoration of Virtual Tape directly from Virtual Tape



TAKE CONTROL OF YOUR DATA

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