

Openvault V2 Updates

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Ease of configuration

- DMF mover node configuration will need only the OV server location information during initial setup.
- Library and drive configuration consolidated onto the server.
- Single view on the server to represent library and drive paths across the cluster.
- Automatic creation and deletion of DCPs and LCPs by default.

Ease of configuration contd...

- Matching of drive slots in libraries and drive paths on hosts using serial numbers.
- Basic DMFMAN support for OV configuration.
- LCP support “getcartinfo import dmf” for importing cart names.
- Added V2 library support for
 - Spectralogic
 - Oracle (STK)
 - Quantum (ADIC)
 - IBM

Component Scalability

- DCPs and LCPs are dynamically launched in response to a tape mount.
- DCPs automatically shutdown after tape unmount.
- LCPs persist until shutdown due to prohibitive cost of relaunch.
- SCP daemon on mover node helps remote start DCPs and LCPs by the OV server.
- The number of active DCPs is governed by number of in-use drives only.

Component Scalability contd...

- LCPs are multi-threaded with better performance characteristics.
- Clients support concurrent moves on libraries with multiple robot arms (SL8500).
- Config push for earlier mounts not held up by cartridge move to drive by later mounts.
- Database queries tweaked to improve performance in large configurations.
- LCPs support “getdriveinfo” which is much faster.
- Large drive farms (8-16 drives with > 50K tapes) supported with multi-path device support.

OV2 Monitoring

- Support for dynamic configuration monitoring.
- Integration with DMFMAN alert infrastructure.
- Addition and removal of mover nodes triggers automatic configuration adjustments.

Misc improvements

- Support for IBM 3592E07 DCP.
- Support for LTO-6 drives.
- Added 3592JC and 3592JK cartridge types.
- Support for Quantum i2000/i6000 libraries.
- Oracle SL150 library support.
- Improved handling of cleaning/diagnostic tapes.
- Better support for “broken LCP/DCP state” wrt path failure recovery and cartridge recovery.
- Improve speed of upgrade conversions of configs containing COPAN shelves by storing intermediate scan results in a file.

OV2 H/W Configuration

The screenshot shows the DMF Manager web interface in Mozilla Firefox. The browser title is "DMF Manager - Mozilla Firefox" and the address bar shows "sgi DMF Manager". The navigation menu includes "Configuration", "Storage", "Messages", "Statistics", and "Help". The current page is "Library H/W".

The main content area displays a tree view of "Libraries" under "C00". The "Drives (16)" folder is expanded, showing a list of drives from C00d1 to C00d16. A context menu is open over the drive list, with options: "Create Drive Group...", "Change Drive Group...", "Sort By Name", "Sorty By WWN", and "Probe...".

The "Create Drive Group" dialog box is open in the foreground, showing a "Drive Group Name" field with the value "dgl" and a dropdown arrow. Below the field are "Apply", "Cancel", and "Help" buttons.

