Managing Scratch Volumes With TMSS10LibraryManager

TMSS10LibraryManager is used to automatically manage Scratch Volume levels for your Backup Library.

Steps to manage:

- Set Library Repository Capacities.
- Set Scratch Repository preferences.
- Designate a Target Repository to eject Library Volumes to when space is required.
- Create a batch file
- Schedule batch file to run automatically

Set Library Capacities

Open TapeMaster, select the required Customer and Media Type from the Customer Tree.

For this example we will use Customer-ID US01 and Media-ID LTO along with the Repository-ID LIBR.

Right click on the Repository, or double click, and select the `Options` tab.

Towards the bottom, expand the Capacity section by clicking on the + sign.

In the field `Capacity`, enter the number of Volume Slots in your Library.

In the field `Minimum Scratch` enter the minimum number of Scratch Volumes required in the Library.

Click `Save` to update the Repository data.

Set Scratch Repository Preferences

From the other Repositories within the Customer's Media Type, decide the Repositories that Scratch Volumes should be harvested and in what order. The higher the Scratch Priority the more prference it is given for Scratch selection. Any Repository with a Scratch Priority of 0 will not be selected for Scratch Volume selection.

To set the Scratch Priority of a Repository, right click on the selected Repository and select Properties, or double click, and select the `Options` tab.

In the field `Scratch Priority` set the required number, remembering the higher the number the earlier it is used for Scratch Volume selection.

Click `Save` to update the Repository data.

Create a Scheduled File

Windows Batch File

Open a new Notepad file and click File > Save As to open up the File Save dialog.

Save the file under and appropriate name, such as runTMSSLibraryManager.bat

Select `All Types` from the Save As Type drop box.

Click Save to create the batch file.

Add Command Line Code to Scheduled File

Minimum requirements for the Command Line code include:

- Program call TMSS10LibraryManager
- Logon string (-S user:-pass@server).
- Customer-ID (-C XXXX).
- Media-ID (-M XXXX).
- Repository-ID to manage (-R XXXX).

Using the minimum requirements TMSS10LibraryManager will attempt to load the required Scratch Volumes for the managed Repository, based off the Repository settings in TapeTrack. As no Target Repository is set, no Volumes will be ejected to make room for incoming Volumes.

Using the example Customer-ID US01 and Media-ID LTO along with the Repository-ID LIBR: <sxh> TMSS10LibraryManager -S user:-pass@serveraddress -C “US01” -M “LTO” -R “LIBR” </sxh>

Additional options include

- Target Repository to eject Volumes to (-T XXXX). Setting this value will allow TMSS10LibraryManager to eject qualifying Volumes to make room for incoming Scratch Volumes if required.
- Volume Selection Filter to include only Volumes that match (-V). A filter of *L6 will prune the list of all available Volumes to only those that end in L6, eg. 100100L6.
- Configuration file (-c).
- Volume ejection exclusion filter (-e). A filter value of *L5 will exclude all Volumes that end in L5 from being ejected from the Library, eg 100100L5.
- Minimum free slots required in Repository (-f). This value is used to calculate how many Volumes will need to be ejected to make room for the required Scratch Volumes and still maintain the set number of empty slots in the Library.
- Repository Scratch order override (-r). Allows you to override the Scratch Priority set through TapeMaster. This can be useful when running TMSS10LibraryManager for multiple Libraries, allowing the selection of Scratch Volumes to be directed to different Repositories for each Library if required.
- Minimum Scratch Volumes required in Repository (-s). Allows you to override the minimum

Scratch Volume number set in TapeMaster

Using the example Customer-ID US01 and Media-ID LTO along with the Repository-ID LIBR, along with specifying the Repository OFFS to eject any Volumes to. Allow 5 free slots in the Library with a minimum 8 Scratch Volumes, ensuring no L5 Volumes are ejected. Overriding the Scratch Priority to stop selecting Scratch Volumes from RAC1 to selecting them from RAC2

<sxh> TMSS10LibraryManager -S user:-pass@serveraddress -C “US01” -M “LTO” -R “LIBR” -T “OFFS” -f 5 -s 8 -r “RAC1=0;RAC2=10” </sxh>

Redirecting output to file

TMSS10LibraryManager outputs, by default, reports to standard out and diagnostic information to standard error. This information can be captured and redirected to file using the redirection pipes > and 2>.

To redirect the reports to LibraryManager_Reports_stdout.txt and diagnostic information to LibraryManager_Diagnostic_stderr.txt.

<sxh> TMSS10LibraryManager -S user:-pass@serveraddress -C “US01” -M “LTO” -R “LIBR” > LibraryManager_Reports_stdout.txt 2> LibraryManager_Diagnostic_stderr.txt </sxh>

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