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

Steps to set up management:

- Set Library Repository Capacities.
- Set Scratch Repository preferences.
- Designate a Target Repository to eject Library Volume 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 and select Properties to open the Properties window.

cookbook:library\_manager https://rtfm.tapetrack.com/cookbook/library\_manager

Generate Certificate		Cn	Permanent	Unspecified	Unassigned
Make Default Reposit	tory	CnO			
Manage	-	Cn			Unassigned
Properties N		CnO			Unassigned
Scan 3	>	Cn	Permanent	Unspecified	Unassigned
Size	>	-			
View Repository Usag	je Map				
Visibility	>			5 (4)	Ş
	19	a later			
e Gemtrac One	Vault One	TSM Lib Two	Gemtrac Two	Vault Two	1
_					1
					{
	Make Default Reposit Manage Properties Scan Size View Repository Usag Visibility	Make Default Repository Manage Properties Scan > Size > View Repository Usage Map Visibility > Gemtrac One Vault One	Make Default Repository Manage Properties Scan Size View Repository Usage Map Visibility Gemtrac One Vault One TSM Lib Two	Make Default Repository Manage Properties Scan Size View Repository Usage Map Visibility Gemtrac One Vault One TSM Lib Two Gemtrac Two	Make Default Repository   Manage   Properties   Scan   Size   View Repository Usage Map   Visibility   Gemtrac One   Vault One   TSM Lib Two Gemtrac Two Vault Two

## Select the Options tab.

Edit Repository: TSM Lib One				×
🎬 Identity 🙆 Zones 🔍 Slot Usage	Reptions	15 Usage History	15 Movement History	Certification
Allow Overlaps	False			^
De-assign from Container	False			
Empty Container	False		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim \sim $

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.

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Identity 🞯 Zones 🖂 Slot Usage	Options	Usage History	19 Movement Histo	ory 🔄 Certification
Allow Overlaps	False			^
De-assign from Container	False			
Empty Container	False			
Do not slot if Container	False			
Do not slot	False			
Require Tag	False			
Require Tag Reset	False			
No re-move	False			
Disallow backward next move date changes	False			
Reset Data Cluster	False			
Confirm Container Contents	False			_
Move Container Contents	False			
Late Threshold	0			
Highwater Offset	0			
Movement Mode	None			
Next Repository	Vault One	•		
Enable Slotting	False			
Capacity				
Papacity	64			
In Use	10			
Incoming	0			
Outgoing	2			
Minimum Scratch	10			
Scratch	0			
± Coordinates				
				*

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 from and in what order. The higher the Scratch Priority the more preference it is given for Scratch selection. Any Repository with a Scratch Priority of 0 will not be used for Scratch Volume selection.

To set the Scratch Priority of the Repository your Scratch Volumes will be selected from, right click on the required Repository and select Properties.

0000010916 Wau	Generate Certificate	ermanent	Unspecified Unspecified	Unassigned Unassigned
0000011126 W TSN 0000011226 W Vau	Properties	ermanent		Unassigned Unassigned Unassigned
Total Items 272 Repositories	Size View Repository Usage Map Visibility	> >		
TSM Lib One Gemtrac One	Vault One TSM Lib Two	Gemtrac Two	Vault Two	

### Select the Options tab.

Edit Repository: Gemtrac One				×
🎬 Identity 🙆 Zones 🔍 Slot Usage	Pptions	19 Usage History	19 Movement History	Certification
Allow Overlaps	False			^
De-assign from Container	False			
Empty Container	False		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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

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Identity 💿 Zones 🖳 Slot Usage	Options	19 Usage History	19 Moveme	ent History	Certification
🗉 GUIDs					^
Local	55533031-	0000-0000-4c54-4f00	)53435231		
Remote	0000000-	0000-0000-0000-000	000000000		
Allowable Volume-IDs					
Туре	Racking				
Scratch Mode	No Change	e			
Scratch Priority	10				
Offsite	False				
Primary	False				
No Distribution	False				
Internal	False				
Sort Sequence	2				
Force Simple Management	False				
No Next Repository	True				
Allow Deletes	True				
Allow Overlaps	False				
De-assign from Container	False				
Empty Container	False				
Do not slot if Container	False				
Do not slot	False				
Require Tag	False				
Require Tag Reset	False				
No re-move	False				
Disallow backward next move date changes	False				
Reset Data Cluster	False				
Confirm Container Contents	False				
Move Container Contents	False				
Late Threshold	0				
Highwater Offset	0				~

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.

Save As										×
← → • ↑ <mark> </mark> •	≪ Local Disk (C:) →	Program Files > Ta	apeTrack > Tap	peTrack Server Utilities	<ul> <li>Scripts</li> </ul>		~ Ö	Search Scri	pts	Q,
Organize 👻 New	/ folder								1	)= • <b>()</b>
OneDrive	^ Name	^		Date modified	Туре		Size			
This PC 3D Objects Desktop Cournents Downloads Music Pictures Videos Local Disk (C:)				No items mate	:h your sea	rch.				
i Network	~									
File name:	run TMSSLibrary Man	ager.bat								~
Save as type: 🖌	All Files (*.*)									~
∧ Hide Folders				Encod	ing: UTF-1	}	~	Save	3	Cancel

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.

If Notepad is still open, type the code below, replacing the login values, Customer-ID, Media-ID and Repository-ID to your own values. If the file is not open, right click on the file and select Edit to open.



Using the example Customer-ID US01 and Media-ID LTO along with the Repository-ID LIBR:

```
TMSS10LibraryManager -S user:-pass@serveraddress -C "US01" -M "LT0" -R "LIBR"
```

#### 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, Media-ID LTO, 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

```
TMSS10LibraryManager -S user:-pass@serveraddress -C "US01" -M "LT0" -R "LIBR" -T "OFFS" -f 5 -s 8 -r "RAC1=0;RAC2=10"
```

#### 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.

```
TMSS10LibraryManager -S user:-pass@serveraddress -C "US01" -M "LT0" -R
"LIBR" > LibraryManager_Reports_stdout.txt 2>
LibraryManager Diagnostic stderr.txt
```

### **Schedule Batch File**

On Windows, Task Scheduler is a tool that allows you to create and run virtually any task automatically.

Tasks, such as TMSS10LibraryManager should be scheduled to run from either the Server where the TapeTrack Server is installed, or another Server that runs continually so the execution of the task is not hindered by a computer that may not be running when the task is due to be run.

See Windows Task Scheduler for details on how to schedule the batch file for execution.

From: https://rtfm.tapetrack.com/ - **TapeTrack Documentation** 

Permanent link: https://rtfm.tapetrack.com/cookbook/library\_manager

Last update: 2025/01/21 22:07

