

Data Protector Sync Cookbook

[Data Protector](#) is a HP enterprise backup solution and is available for Windows, UNIX and Linux.

The omnirpt command

The following instructions use omnirpt to extract the media via a tab delimited CSV file. Using the powershell code

```
omnireport -report media -detail 1 |
Where-Object {
    $_ -match "^[A-Z0-9]{6,}" -and
    $_ -notmatch "Disk"
} |
ForEach-Object { $_ -replace "`t", "," } |
Out-File "C:\DPReports\tapetrack_media.csv" -Encoding UTF8
```

or linux

```
omnireport -report media -detail 1 \
| grep -E '^[A-Z0-9]{6,}' \
| grep -v -i 'disk' \
| sed 's/\t/,/g' \
> tapetrack_media.csv
```

The file can be converted to a comma delimited file and used directly for input into the Sync process, skipping the need to run TMSS10CSV2Fixed

The omnirpt command is available on systems with the Data Protector User Interface component installed.

The omnirpt command generates various reports about the Data Protector environment

```
omnirpt -report media_list -tab > var\dataprotector.csv
```

Example omnirpt output

```
#List of Media
#Cell Manager: gazillabyte.tapetrack.co
#Creation Date: 9/13/2018 2:00:12 PM
# Headers
# Medium ID label location Status Protection Used [MB] Total
[MB] Last Used Pool Type
3f04a59e:3866b9c6:1990:0004 [000005L7] 000005L7 LIB_1244 Good
9/19/2018 8:23:04 AM 267575.25 4113512.00 9/17/2018 6:48.22 AM
LIB Daily LT0-Ultrium
```

3f04a59e:3b5b80ee:lc84:0003	[000006L7]	000006L7	Good	7/14/2018
6:53:04 AM	342875.46	4000000.00	7/11/2018 5:28.33 AM	LIB Daily
LTO-Ultrium				
3f04a59e:398c833e:14a8:0004	[000007L7]	000007L7	LIB_1244	Good
9/16/2018 2:52:24 AM	112875.21	4000000.00	9/12/2018 6:28.45 AM	
LIB Daily LTO-Ultrium				
3f04a59e:3914e191:lce8:0005	[000008L7]	000008L7	LIB_1244	Good
9/21/2018 7:44:04 AM	264452.33	4000000.00	9/17/2018 7:43.29 AM	
LIB Daily LTO-Ultrium				
3f04a59e:39353595:14e4:0003	[000009L7]	000009L7	Good	9/11/2018
7:53:04 AM	245675.45	4000000.00	9/4/2018 7:15.22 AM	LIB Daily
LTO-Ultrium				
3f04a59e:3817c945:lba8:0003	[000010L7]	000010L7	Good	9/19/2018
8:57:04 AM	100575.25	4000000.00	9/11/2018 6:32.04 AM	LIB Daily
LTO-Ultrium				
3f04a59e:38311894:laee:0004	[000011L7]	000011L7	LIB_1244	Good
8/19/2018 4:33:34 AM	200335.26	4000000.00	8/12/2018 3:28.41 AM	
LIB Daily LTO-Ultrium				
3f04a59e:383c719c:1440:0001	[000012L7]	000012L7	LIB_1244	Good
8/17/2018 8:53:04 AM	260000.04	4000000.00	8/11/2018 4:55.52 AM	
LIB Daily LTO-Ultrium				
3f04a59e:383117eb:laee:0003	[000013L7]	000013L7	Good	6/30/2018
5:55:54 AM	108075.25	4000000.00	6/15/2018 6:02.44 AM	LIB Daily
LTO-Ultrium				
3f04a59e:383c3e6e:0ba4:0001	[000014L7]	000014L7	LIB_1244	Good
8/29/2018 8:53:04 AM	000455.44	4000000.00	8/17/2018 8:08.32 AM	
LIB Daily LTO-Ultrium				

Converting omnirpt tab file to Fixed length file

Output from omnirpt, while tab delimited, can produce offset columns depending on string lengths. To ensure the column offsets are consistent the output is passed through [TMSS10CSV2Fixed](#).

Run [TMSS10CSV2Fixed](#) directing the file dataprotector.csv through stdin to get a starting point for columns and offset values, adjust the offsets to match the data you wish to import, omitting data from irrelevant columns with the offset 0 0.

```

TMSSDELIMITER=TAB

TMSS10CSV2Fixed < dataprotector.csv

System: TapeTrack
Report Description: CSV Statistics
Production Time: Monday, October 01, 2018 - 13:46:07 (AUS Eastern Standard Time)
Report Width: 120 bytes

Seq.  Min.  Max.  Heading Value
-----
-----

```

```

0    11    27 # Medium ID
1     5    19 label
2     0     8 location
3     4    28 Status
4     9    20 Protection
5     9    10 Used [MB]
6    10    20 Total [MB]
7     9    20 Last Used
8     4    11 Pool
9     4    11 Type

```

Suggested Usage:

```

tmss10csv2fixed 0 27 28 19 48 8 57 28 86 20 107 10 118 20 139 20 160
11 172 11

```

Changing the offset values to pick up Volume-ID (column 2, offset 30 length 8), location (column 3, offset 48, length 8) and description (column 9, offset 160, length 12).

```

TMSS10CSV2Fixed 0 0 0 8 17 8 0 0 0 0 0 0 0 0 0 0 0 35 12 0 0 <
dataprotector.csv > dataprotectorFixed.txt

```

Sample output with selected columns

```

Label          Location      Pool
000005L7      LIB_1244     LIB Daily
000006L7      LIB_1244     LIB Daily
000007L7      LIB_1244     LIB Daily
000008L7      LIB_1244     LIB Daily
000009L7      LIB_1244     LIB Daily
000010L7      LIB_1244     LIB Daily
000011L7      LIB_1244     LIB Daily
000012L7      LIB_1244     LIB Daily
000013L7      LIB_1244     LIB Daily
000014L7      LIB_1244     LIB Daily

```

Synchronization



You will need to install the [TapeTrack Sync software](#) to complete these instructions.

Synchronization with TapeTrack is performed by calling the [TMSS10Sync](#) command line program, along with:

1. The fixed width text file produced by pre-processing the onmirpt output.
2. Command line arguments that instruct the program how to process volumes.

3. A synchronization definition file that instructs the program how to interpret the omnirpt output.

Example Command Line Arguments

```
TMSS10Sync -d dp.ttidef -a -S batch:-password@server <
dataprotectorFixed.txt
```

Where:

- -d is the path to the Synchronization Definition File.
- -a tells the program to add new tape volumes if they are encountered.
- -S tells the program what [Server](#) to connect to.
- dataprotectorFixed.txt is the omnirpt output that has been pre-processed through the [TMSS10CSV2Fixed](#) program

Example Synchronization Definition

```
#
# Set the Customer and Media as literal values as they never change
#
SetLiteral(CUSTOMER, "ACME");
SetLiteral(MEDIA, "LT0");

#
# Get the Volume-ID
#
Extract(VOLUME, 1, 8, 0);

#
# Get the Repository from a translated location Name
#
Extract(REPOSITORY, 17, 10, 0);
RemoveSpaces(REPOSITORY);
AddTranslation(REPOSITORY, "*Lib*", "LIBR");
AddTranslation(REPOSITORY, "*", "OFFS");

#
# Set the Description to the Pool Name
#
Extract(DESCRIPTION, 35, 40, 0);
RemoveSpaces(DESCRIPTION);
#
```

[cookbook](#)

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