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 onmirpt to extract the media via a tab delimetered 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 delimitered file and used directly for input into the Sync process, skipping the need to run TMSS10CSV2Fixed

The onmirpt 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    LTO-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:3914el91: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 delimitered, 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.

```
TMSSDELIMETER=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 35 12 0 0 <
dataprotector.csv > dataprotectorFixed.txt
```

Sample output with selected columns

```
Label            Location         Pool
000005L7         LIB_1244         LIB Daily
000006L7                          LIB Daily
000007L7         LIB_1244         LIB Daily
000008L7         LIB_1244         LIB Daily
000009L7                          LIB Daily
000010L7                          LIB Daily
000011L7         LIB_1244         LIB Daily
000012L7         LIB_1244         LIB Daily
000013L7                          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, "LTO");

#
# 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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https://docs.tapetrack.com/ - **TapeTrack Documentation**

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