Add Remove Flags Based Off Last Read Time

Add or Remove Flags based off last read time of Volumes using TMSS10ModifyFlags and a config file.

The purpose of this method allows you to lock any Volumes in your Library that have been recalled for data restoration and then automatically remove the move lock once the last read time passes a set number of days. The Sync can then place the Volumes in a move back to the offsite vault until the data expires.

The process involves TMSS10ModifyFlags loading an input file, using a definition file, to extract the Volume-ID's. The Volume-ID's are then filtered using the configuration file and adding any qualifying Volumes to a scan file.

The scan file is then processed, adding or removing the defined Flags against the scan list Volumes.

Sample Files

Input file - Volumes.csv

```
100001L5,OFFS,2021/07/15 22:10:33
100002L5,OFFS,2021/07/25 22:10:34
100003L5,OFFS,2021/07/25 22:10:35
100004L5,OFFS,2021/07/25 22:10:36
100005L5,OFFS,2021/07/28 22:10:37
100006L5,OFFS,2021/06/15 22:10:38
100007L5,OFFS,2021/06/16 22:10:39
100008L5,OFFS,2021/06/17 22:10:40
100009L5,OFFS,2021/06/18 22:10:41
100010L5,OFFS,2021/06/19 22:10:42
```

Definition file - default.ttidef

The definition file provides the information on how to extract the Volume-ID from the input file into the barcode field, as well as setting the Customer-ID and Media-ID.

```
# Set input file (use full path if not in current directory)
setFile(volumes.csv);

# Set delimiter used in CSV file
setCSVDelimiter(",");

# Set Customer-ID
setLiteral(CUSTOMER, 0002);

#Set Media-ID
setLiteral(MEDIA, LTO);
```

```
# Extract Volume-ID into BARCODE field
extract(BARCODE, 1, 8, 0);
```

Configuration file - last_read.cfg

Configuration file sets definition file for translating and extracting Volume-ID's and filters input by Customer-ID (0002), Media-ID (LTO). The last read time is then compared to the lastreadtime filter, if the last read time is 30 or more days ago, the Volume is added to the scan file, if not it is discarded.

```
traversal =
{
   scanfile= { file="default.ttidef"; };
   customer =
   (
      {
         id="0002";
         media =
         (
            {
               id="LTO";
               volume =
               (
                   {
                      id="*";
                      lastreadtime = "P:*-30";
                      skip=false;
                   },
                   {
                      id="*";
                      skip=true;
                   }
               );
            }
         );
      }
   );
};
```

Batch file - run_remove_lock_flag.bat

Run TMSS10ModifyFlags to remove lock flag from all Volumes in the input file with a last read date of 30 or more days ago. Using the Volume filter (-V) to only read in Customer-ID 0002 to save processing time by avoiding reading in all other Customer-ID's. Output from the process being written to stdout.txt and stderr.txt. The output files can written to any directory by using full directory paths.

```
TMSS10ModifyFlags -S user:-password@server -F "!l" -c last_read.cfg -V
```

```
0002.LTO.* > modify_flags_stdout.txt 2> modify_flags_stderr.txt
```

Example Output

modify_flags_std.txt

```
             System: TapeTrack
 Report Description: Scan-File Load Report
    Production Time: Friday, July 30, 2021 - 10:26:02 (AUS Eastern Standard
Time)
       Report Width: 149 bytes

 Seq.   Record Barcode                                   Resolved As
Status Notes
 ------ ------ ---------------------------------------- --------------------
------ ------------------------------------------------------------------
      1      1 100001L5                                 US02.LTO.100001L5
OK
      2      2 100002L5                                 US02.LTO.100002L5
OK
      3      3 100003L5                                 US02.LTO.100003L5
OK
      4      4 100004L5                                 US02.LTO.100004L5
OK
      5      5 100005L5                                 US02.LTO.100005L5
OK
      6      6 100006L5                                 US02.LTO.100006L5
OK
      7      7 100007L5                                 US02.LTO.100007L5
OK
      8      8 100008L5                                 US02.LTO.100008L5
OK
      9      9 100009L5                                 US02.LTO.100009L5
OK
     10     10 100010L5                                 US02.LTO.100010L5
OK
 ------ ------ ---------------------------------------- --------------------
------ ------------------------------------------------------------------

             System: TapeTrack
 Report Description: Flag Modification Report
    Production Time: Friday, July 30, 2021 - 10:26:02 (AUS Eastern Standard
Time)
       Report Width: 156 bytes

 Seq.   Barcode              Old Flags                       New Flags
Message
 ------ -------------------- ------------------------------- -------------
----------------- ------------------------------------------------------------
```

```
---
      1 US02.LTO.100001L5    Cln                                  Cn
Request OK
      2 US02.LTO.100002L5    Cln                                  Cn
Request OK
      3 US02.LTO.100003L5    Cln                                  Cn
Request OK
      4 US02.LTO.100004L5    Cln                                  Cn
Request OK
      5 US02.LTO.100005L5    Cln                                  Cn
Request OK
      6 US02.LTO.100006L5    Cln                                  Cn
Request OK
      7 US02.LTO.100007L5    Cln                                  Cn
Request OK
      8 US02.LTO.100008L5    Cln                                  Cn
Request OK
      9 US02.LTO.100009L5    Cln                                  Cn
Request OK
     10 US02.LTO.100010L5    Cln                                  Cn
Request OK
 ------ -------------------- ---------------------------------- --------------
----------------- ------------------------------------------------------------
---
```

modify_flags_stderr.txt

```
ZBT001N-10:22:48 TMSS10ModifyFlags (c) GazillaByte 1998-2021
ZBT002N-10:22:48 Compiled Jul 14 2021 at 16:17:38
ZBT010I-10:22:48 this program allows you to set or unset volume flags
ZBT006N-10:22:48 Running Under Windows 10 (build 19043 10.00) on platform
x64
ZBT000N-10:22:48 Host is Little Endian
ZBT000N-10:22:48 Host is ASCII
ZBT000N-10:22:48 Binary is 64 bit
ZBT000N-10:22:48 Current Working Directory is C:\Users\GazillaByte
ZBT004N-10:22:48 Today is Friday, July 30, 2021
ZBT005N-10:22:48 Running on GazillaByte
ZBT006N-10:22:48 Process ID 12376
ZBT000N-10:22:48 Parsing and validating command arguments
ZBT001N-10:22:48 Server Interpreted as: Server(localhost) Port(5000)
User(tapemaster) Password(******)
ZBT002N-10:22:48 Program Options:
ZBT002N-10:22:48    (F) New Flags=!l
ZBT002N-10:22:48    (S) Server=<VALUE HIDDEN>
ZBT002N-10:22:48    (V) Volume Filter=US02.LTO.*
ZBT002N-10:22:48    (c) Configuration File=last_read.cfg
ZBT000N-10:22:48 Arguments parsed and validated with 0 errors
ZBT000N-10:22:48 Reading Config File last_read.cfg
```

```
ZBT000I-10:22:48 Flags to set:
ZBT000I-10:22:48 Flags to unset: l
ZBT000N-10:22:48 Checking for environment variable TMSSSERVERPROXY
ZBT000N-10:22:48 Connection to server (127.0.0.1) successful
ZBT000N-10:22:48 Logging on to TapeTrack Server
ZBT000N-10:22:48 Registering Client at MACID(1c:69:7a:02:49:71:00:00)
Result(Request OK)
ZBT000N-10:22:48 Last Logon was at Friday, July 30, 2021 - 10:21:50 from
127.0.0.1 (GazillaByte)
ZBT000N-10:22:48 Welcome to Server: Production
ZBT000N-10:22:48 Loading Scan List from definition file
ZBT001N-10:22:48 Opening Configuration File file: default.ttidef
ZBT001N-10:22:48 File Information for: Configuration File
ZBT001N-10:22:48    File Size: 132
ZBT001N-10:22:48    File Created: Thursday, July 15, 2021 - 11:58:26
ZBT001N-10:22:48    File Last Accessed: Friday, July 30, 2021 - 10:21:50
ZBT001N-10:22:48 Closing file: Configuration File
ZBT001N-10:22:48 Opening Import File file: VOLUMES.CSV
ZBT001N-10:22:48 File Information for: Import File
ZBT001N-10:22:48    File Size: 350
ZBT001N-10:22:48    File Created: Thursday, July 15, 2021 - 11:55:58
ZBT001N-10:22:48    File Last Accessed: Friday, July 30, 2021 - 10:22:26
ZBT001N-10:22:48 Closing file: Import File
ZBT000N-10:22:48 Scan-File load is now complete. 10 records loaded
ZBT000I-10:22:48 Initializaing Attribute Control: Index[0]
ZBT001N-10:22:48 Volume filter interpreted as: Customer(US02) Media(LTO)
Volume(*) Repository(*) Flags()
ZBT000N-10:22:48 Listing Customers
ZBT000N-10:22:48 Customer List successful: Customers(24) Excluded(0)
ZBT000N-10:22:48 Processing Customer: US02-Los Angeles Data Center
(1602/606)
ZBT000N-10:22:48 Listing Media
ZBT000N-10:22:48 Media List successful: Media(2) Excluded(0)
ZBT000N-10:22:48 Processing Media: LTO-LTO Cartridge
ZBT000N-10:22:48 Listing Volumes
ZBT000N-10:22:48 Volume List successful: Volumes(1597) Excluded(0)
ZBT000N-10:22:48 Volume (US02.LTO.100001L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100002L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100003L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100004L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100005L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100006L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100007L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100008L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100009L5) updated OK
ZBT000N-10:22:48 Volume (US02.LTO.100010L5) updated OK
ZBT000N-10:22:48 Closing connection to TapeTrack Server
ZBT000N-10:22:48 Session Statistics:
ZBT000N-10:22:48    Seconds Connected: 0
ZBT000N-10:22:48    Queries Completed: 36
ZBT000N-10:22:48           Bytes Sent: 3,088
```

```
ZBT000N-10:22:48       Bytes Received: 38,832
ZBT000N-10:22:48 -
ZBT000N-10:22:48 Return Code Statistics ----------------------------------
------------
ZBT000N-10:22:48 Message
Total
ZBT000N-10:22:48 Request OK
36
ZBT000N-10:22:48 ----------------------------------------------------------
------------
ZBT000N-10:22:48 -
ZBT900N-10:22:48 Program Complete
ZBT901N-10:22:48 Elapsed time 0 minutes and 0 seconds
ZBT991N-10:22:48 CRC values for this session: 0x7a9bacb (0x4c566fb9)
ZBT992N-10:22:48 Number of records written: 76
ZBT993N-10:22:48 Number of bytes written: 4,236
ZBT999N-10:22:48 Program ended
```

technote, config, cli, report

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