

TapeManager/LibraryManager Release Notes

10.070 (General Release)

Release 10.070

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TapeManager GUI	10.070.0047
VTL Agent	2.03.018
DSI Library Controller Firmware	6.03.016

The following enhancements have been made to the following software products. Use the TM VERSION command to find your current version of the TapeManager/LibraryManager software and review the changes made since that release. For instructions on how to use a new command or feature, refer to one of the following documents: TapeManager Operations Guide, Cartridge Library Installation Guide, Linux Library Controller Release Notes, or VTL Agent Release Notes.

Release 10.070 (10.070.0641)

Notes

1. All corrections documented through TapeManager 9.069Z (including special release 9.069Z IC1) are included in the base release for TapeManager 10.070.
2. The TapeManager database has had minor changes for enhancements but is completely compatible with the 9.069 formats. It is always recommended that a complete database backup be performed before upgrading to a new release (please see the DATABASE BACKUP Command in the TapeManager Operations Guide for more details).

Enhancements

1. TapeManager enhancements

- a. Implementation enhancement for IPv6 to handle a maximum IP address of 46 bytes (up from 39 bytes) and to change any IPv4 Mapped IPv6 addresses to IPv4 when configuring host to host TCPIP configurations.
- b. With the addition of real time events, the TapeManager GUI (10.070.0047) will now update several states automatically as they change in the TapeManager. This includes (but is not limited to) tape movement (as in tape to door or tape to slot) and library status (ONLINE/OFFLINE).
- c. The LOG report has been enhanced to allow searching the log for any occurrences of a text string or serial number. The text search is literal meaning that the search text will match any occurrence not just full words. The text search is also not case sensitive.
- d. The DELETE command now has syntax for VIRTUAL/PHYSICAL modifiers.
- e. The TM STATUS DB (DB STATUS) command will now return the date and time that the TapeManager database was last backed up (DB BACKUP). There is also an additional log entry noting the successful completion of the backup process.
- f. A new CONFIGURE MT cleaning option has been added. CONFIGURE MT CLEANING = NEVER/DEFAULT. When this option is set to NEVER an MCP cleaning request and operator cleaning requests are ignored or return an error. Cleaning requests for virtual tape drives and drives in backend libraries are always ignored or return an error.
- g. A new CONNECTION type of NONE is now allowed in a library configuration. The value of NONE is used when a remote VTL is used for replication controlled by the host, but no host robotics are used. If NONE is used a VTL statement must be defined.
- h. The TM DELETE MT command has been enhanced to allow a list of unit numbers.
Ex: TM DELETE MT 80,84,88,90-99
- i. Two new VTL options are now available in TapeManager:
TM CONFIG VTL RENAME = TRUE

The RENAME option causes the VTL to update its tape name with the label from the TapeManager database. This update occurs whenever the tape is mounted or dismounted and when the LABEL is modified by a TapeManager Modify command.

TM CONFIG VTL WRITE LOCKOUT = TRUE

The WRITE LOCKOUT option causes the VTL to update its Enable Write Protection attribute based upon the EXPIRED condition of the TapeManager database. This update occurs whenever the tape is mounted or dismounted and when the EXPIRED or retention attributes are modified by a Modify command.

- j. A new configuration command (CONFIGURE MESSAGES) has been implemented. This command allows messages from VTLs to be suppressed or have their severity value changed. This command affects all virtual libraries controlled by this host. Please see the TapeManager Operation Guide for additional information.
- k. The LABELMANAGER interface has been removed. Any attempt to use any LABELMANAGER functions including the LABEL command will result in an error.

Corrections

1. TapeManager corrections

- a. When several Library Maintenance jobs are initiated for various serial numbers, it was possible that multiple attempts were made to mount a single serial number tape into multiple drives. This caused delays in starting the Library Maintenance job and also confused operations because messages about not finding the tape were repeated (like "NO FILE xxx/FILE000 (MT) [<SN>] #1"), and after a delayed timeframe, eventually went away and the jobs completed. This has been resolved.

2. LibraryManager corrections

a. TapeLibrary

- i. The following password description was added to the Cartridge Library Installation Guide for the VTL Statement under Data Domain implementation restrictions:

The password can be a maximum of 64 characters. The allowable characters are A-Z (upper case), a-z (lower case), 0-9, hyphen (-), underscore (_), equals (=), backslash (\), apostrophe ('), tilde (~), exclamation point (!), ampersand (@), hash (#), dollar sign (\$), caret (^), ampersand (&), asterisk (*), left parenthesis "(", right parenthesis ")", plus sign (+), pipe (|), open bracket ([), close bracket (]), open brace {, close brace }, semi colon (;), colon (:), period (.), forward slash (/), less than (<), greater than (>), and question mark (?). Note: the comma (,), blank (), and percent (%) characters are missing from this list because they are used for line continuation, formatting, and comment purposes.

- ii. It was possible to see a message:
TAPELIB:* SERVER OPEN FAILED: <alternate library name>, BAD
LIBRARY NAME * @ 8163400
after switching from the default library to the alternate declared library if
the alternate library was not declared on the primary host. This has
been resolved.
- iii. When switching to an alternate library on a remote host (when the
primary host had already switched from the DEFAULT library to the
alternate library) it was possible to see the following error message:
MSRDISP13:TAPELIB: * SERVER OPEN FAILED: <DEFAULT Library
name>, BAD LIBRARY NAME * @ 8163400
This has been resolved.
- iv. If a call is made on our software to find the SLOT for a particular Serial
Number and there are multiple libraries to search, and that serial
number does not exist in any of the libraries, it was possible for
TapeManager to endlessly look for it. This has been resolved.

b. DDSupport

- i. It was possible on Data Domain VTLs that when doing replication and
having multiple contexts, that monitoring the completion of a barcode
for remote copy in an mtree/Pool would not cause the completion
event. This would then leave the TapeManager software without
notification of the completion and cause jobs to back up. This has
been resolved.
- ii. It was noticed that when bringing up SYSTEM/DDSUPPORT that
misleading messages about "DSISUPP:KEY INVALID MCN" would be
logged. This can be confusing. This was seen as:
DSISUPP:VERIFYING KEY: DSI-DDVTL-UNL
DSISUPP:KEY INVALID MCN: DSI-DDVTL-UNL
The invalid messages have now been resolved.

c. VTLSupport

- a. When bringing up a DSI VTL library for the first time, getting the status
of a serial number in a library, or importing a serial number to a library
that has a VTL Agent greater than 2.03.018, the following error could
be seen:
VTL:UNEXPECTED PROPERTY IN TAPE INFO RESPONSE,
PROPERTY = COS @ 52778000
This has been resolved.

3.