IBM TS3310 Command Line Interface

The IBM TS3310 Command Line Interface (CLI) program can be used to access the TS3310 library from a CLI. This is in addition to the TS3310's Web User Interface. The TS3310 CLI can be downloaded from url:
https://www-01.ibm.com/support/docview.wss?uid=ssg1S4000981

The IBM TS3310 CLI provides the ability to access library functions through a command line interface. All view commands create a comma-separated value (csv) style output. The output is directed to the command prompt window by default, but can also be redirected to a file. To redirect the output to a file, you can add "> output_filename" to the end of the command.

In order to use the TS3310 Tape Library CLI, the following prerequisites apply:
- The TS3310 Tape Library must be at a firmware level 587G.GS003 (or higher).
- Java 5.0 or later must be installed

Cartridge movement using the TS3310 CLI is generally performed based on the current cartridge location:
1. **Moving to storage**
   - If currently in drive, use either unloadDrive or unloadAllDrives
2. **Moving to I/O**
   - If currently in storage, then use removeDataCartridges

Supported Actions

-bulkMoveCartridgesToAnotherLogicalLibrary
Description: Assigns multiple cartridges at the same time instead of 1 at a time

-cleanDrive
Description: Cleans a drive at the given location, designated by enclosure and row.

-moveCartridgesToAnotherLogicalLibrary
Description: Assigns data cartridges to a logical library

-removeDataCartridges
Description: Removes the data cartridges (cartridges moved to the IO station)

-removeExpiredCleaningCartridges
Description: Removes all expired cleaning cartridges

-resetDrive
Description: Power cycle the drive at the given location, designated by enclosure and row.

-unloadAllDrives
Description: Unloads all full drives

-unloadDrive
Description: Unloads a cartridge from a specific drive, designated by enclosure and row.

-version
Description: Displays version information about the TS3310 CLI

-viewCleaningCartridges
Description: Views all cleaning cartridges

-viewDataCartridges
Description: Views all data cartridges

-viewDriveFirmwareLevels
Description: Views the drive VPD information and firmware levels

-viewDriveSummary
Description: Views the drive summary

-viewFibreChannelPorts
Description: Views the fibre channel settings

-viewIOStation
Description: Views the I/O station

-viewLibraryFirmwareLevel
Description: Views the library VPD information and firmware level

-viewLoggedInUsers
Description: View logged in users

-viewLogicalLibraries
Description: Views the logical library settings

-viewOperatorInterventions
Description: View operator interventions for all states

-viewSystemSummary
Description: Views the physical library system summary

Command Parameters

The following CLI parameters are supported.

-? : Shows help
- : -Action, REQUIRED
-a : Tape library DNS name or ip address, REQUIRED
-d : Turns on extra debug tracing and stores in local file named "TS3310CLI.log" (used for problem determination)
-e : Specified enclosure #
-h : Shows help
-p : Tape Library Password, REQUIRED
-r : Drive row #
-t : Sets timeout value in milliseconds (default is to never timeout which may cause CLI to appear hung)
-u : Tape Library User ID, REQUIRED
-v or –verbose : The default mode for the CLI is "quiet". In quiet mode, progress messages are not included in the output. When the –v or --verbose parameters is added, the progress messages are included in the output. When using the CLI with scripting, you probably will not want the progress messages included in the output

Command Format

bulkMoveCartridgesToAnotherLogicalLibrary

```
java –jar TS3310CLI.jar –a <dns or ip addr of your library> --
bulkMoveCartridgesToAnotherLogicalLibrary <full path and filename of input file>
-u <user id> –p <password>
```

For the bulkMoveCartridgesToAnotherLogicalLibrary action, the input file would take the format of:

volser #1, Logical Library name
volser #2, Logical Library name
etc.

Example. If you wanted to assign three cartridges to the logical library named testltolib, you might create a text file named volsers.txt containing:

ZZZ000L4, testltolib
ZZZ001L4, testltolib
ZZZ002L4, testltolib

And the command would be:

```
C:\$User\Applications\TS3310_CLI\>java –jar TS3310CLI.jar –a <dns or ip addr of
your library> --bulkMoveCartridgesToAnotherLogicalLibrary C:\$User\Applications
\TS3310_CLI\volsers.txt –u <user id> –p <password>
```

With bulkMoveCartridgesToAnotherLogicalLibrary, it moves a group of cartridges at a time. The advantage is that it is faster than moveCartridgesToAnotherLogicalLibrary and even tells you which ones succeeded (but only when there are no failures). The disadvantage is that if there is an error, the web/CLI doesn't tell you which ones failed, only that they failed.

cleanDrive

```
java –jar TS3310CLI.jar –a <dns or ip addr of your library> --cleanDrive –e
<drive enclosure #> –r <drive row #> –u <user id> –p <password>
```


moveCartridgesToAnotherLogicalLibrary

```
java –jar TS3310CLI.jar –a <dns or ip addr of your library> --
moveCartridgesToAnotherLogicalLibrary <full path and filename of input file> –u
<user id> –p <password>
```

For the moveCartridgesToAnotherLogicalLibrary action, the input file would take the format of:

volser #1, Logical Library name
volser #2, Logical Library name
etc.

Example. If you wanted to assign three cartridges to the logical library named testltolib, you might create a text file named volsers.txt containing:

ZZZ000L4, testltolib
ZZZ001L4, testltolib
ZZZ002L4, testltolib

And the command would be:

```
C:\$User\Applications\TS3310_CLI\>java –jar TS3310CLI.jar –a <dns or ip addr of
your library> --moveCartridgesToAnotherLogicalLibrary C:\$User\Applications
\TS3310_CLI\volsers.txt –u <user id> –p <password>
```

moveCartridgesToAnotherLogicalLibrary moves 1 single cartridge at a time. The advantage is that you get to know the actual status result of each individual cartridge. The disadvantage is that it takes longer than bulkMoveCartridgesToAnotherLogicalLibrary.

removeDataCartridges

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
removeDataCartridges <full path and filename of input file> -u <user id> -p
<password>
```

The input file has the format of:

volser #1
volser #2
etc.

removeExpiredCleaningCartridges

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
removeExpiredCleaningCartridges -u <user id> -p <password>
```

resetDrive

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --resetDrive -e
<drive enclosure #> -r <drive row #> -u <user id> -p <password>
```

unloadAllDrives

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --unloadAllDrives -u
<user id> -p <password>
```

unloadDrive

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --unloadDrive -e
<drive enclosure #> -r <drive row #> -u <user id> -p <password>
```

version

```
java -jar TS3310CLI.jar -version
```

viewCleaningCartridges

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewCleaningCartridges -u <user id> -p <password>
```

viewDataCartridges

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --viewDataCartridges
-u <user id> -p <password>
```

viewDriveFirmwareLevels

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewDriveFirmwareLevels -u <user id> -p <password>
```

viewDriveSummary

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --viewDriveSummary -
u <user id> -p <password>
```

viewFibreChannelPorts

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewFibreChannelPorts -u <user id> -p <password>
```

viewIOStation

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --viewIoStation -u
<user id> -p <password>
```

viewLibraryFirmwareLevel

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewLibraryFirmwareLevel -u <user id> -p <password>
```

viewLoggedInUsers

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --viewLoggedInUsers
-u <user id> -p <password>
```

viewLogicalLibraries

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewLogicalLibraries -u <user id> -p <password>
```

viewOperatorInterventions

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --
viewOperatorInterventions -u <user id> -p <password>
```

viewSystemSummary

```
java -jar TS3310CLI.jar -a <dns or ip addr of your library> --viewSystemSummary
-u <user id> -p <password>
```