

ModusToolbox™ Local Content Storage CLI user guide

ModusToolbox™ tools package version 3.9.0

Local Content Storage Manager CLI tool version 1.70.0

About this document

[A newer version of this document may be available on the web here.](#)

Scope and purpose

This guide provides information and instructions for using the ModusToolbox™ Local Content Storage (LCS) Manager CLI tool.

Document conventions

Convention	Explanation
Bold	Emphasizes heading levels, column headings, menus and sub-menus
<i>Italics</i>	Denotes file names and paths.
Monospace	Denotes APIs, functions, interrupt handlers, events, data types, error handlers, file/folder names, directories, command line inputs, code snippets
File > New	Indicates that a cascading sub-menu opens when you select a menu item

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1 Introduction

1 Introduction

The LCS feature provides a command-line tool called lcs-manager-cli that allows you to create your own local content on demand. You can decide whether to save the entire database (approximately 5 GB of data) or a subset of data for the BSPs that you specify.

Note: *To use LCS, you must first be able to connect to the Internet in order to download content. Then, you can access the local content when needed without the Internet.*

After acquiring local content, you explicitly set whether to use local or online content. The rest of the ModusToolbox™ ecosystem will use what you select.

1.1 Running lcs-manager-cli

For Windows, we recommend using the modus-shell bash tool included with the tools package installation by typing "modus-shell" in the Windows search box. However, you can also use PowerShell or the CMD tool. Just make sure to use the proper protocols and commands for the terminal in use. The examples in this document use modus-shell.

For macOS and Linux, you can use the default terminal.

1.2 lcs-manager-cli options

The lcs-manager-cli tool is located in the <path>/ModusToolbox/tools_<version>/lcs-manager-cli/ directory. If you run it with the -h option, you will see the following output:

```
$ ./lcs-manager-cli -h
Usage: <path>\ModusToolbox\tools_3.2\lcs-manager-cli\lcs-manager-cli.exe [options]

Options:
  -?, -h, --help           Displays help on commandline options.
  --help-all              Displays help including Qt specific options.
  -v, --version            Displays version information.
  --verbose                Enable verbose output
  --list                   List the content in local content storage
  --add-all                Add all content from remote manifest to local content
                           storage
  --clear-all             Remove all content from local content storage
  --list-bsps              List the BSPs on the watch list
  --add-bsp <name>         Add the BSP to the watch list and add its dependencies
                           to local content storage
  --clear-bsp <name>       Remove the BSP from the watch list and remove its
                           dependencies to local content storage
  --check-for-updates      Check for available updates
  --update <name>          Update a repository and its dependencies.
  --update-existing        Update local content repositories.
```

Note: *The usage shows the path using standard Windows back slashes. This is standard output from Qt. If you are running LCS commands using modus-shell, you must use forward slashes for the path.*

2 Getting started

2 Getting started

There are two basic steps to get started using local content:

1. Create a local database (full or partial).
2. Update your settings.

You can also share local content storage with other users.

2.1 Create full database

To create a local copy of the entire database, run this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --add-all
```

This creates a copy of the entire database from the remote manifest. It may take a long time depending on how many repos are in the manifest.

2.2 Create partial database

To create a local copy of a partial database, specify a particular BSPs using this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --add-bsp <BSP Name>
```

Where <BSP Name> is a valid name of a BSP from the remote manifest. The specified BSP will be added to a file named *watchlist.json* in the *lcs* directory, and the BSP and all dependencies will be downloaded into local content storage.

Note: *In some cases when you use the --add-bsp command, the tool may not download all the necessary dependencies, resulting in situations where you cannot create the desired application. This can happen if a dependency is referenced by a .mtb file and not in the manifest. To solve this problem, we recommend running lcs-manager-cli with the --add-all option to download the full database.*

Examples of valid BSP names include CYW943907AEVAL1F, TARGET_PMG1-CY7112, and CY8CKIT-062S2-43012. See [GitHub manifest file](#) for an example of a BSP manifest.

2.3 Update settings to use local content

Beginning with the 3.5.0 tools package, there is a ModusToolbox™ Settings tool to configure a wide range of settings for your environment, including LCS settings. You can run the settings tool as a GUI or from the command line. See the [Settings tool user guide](#) for more details on specific features.

2.3.1 GUI option

Launch the Settings tool GUI as applicable for your operating system. You can launch it from various tools like Project Creator and Library Manager. Once open, select **Operating Mode > Local Content Mode** to set the LCS mode for all tools.

If your LCS directory is located in a non-default location, use the **Local Content Storage Location** option to specify the location of the *.modustoolbox/lcs* directory.

2 Getting started

2.3.2 Command-line option

Run the Settings tool CLI (mtb-settings-cli) in a terminal (modus-shell on Windows) using the following command:

```
cd [path to mtb-settings]
./mtb-settings-cli --set operating_mode=local
```

If your LCS directory is located in a non-default location, also use this command to specify the location of the `.modustoolbox/lcs` directory:

```
./mtb-settings-cli --lcs_path="[path to LCS dir]"
```

2.4 Share LCS

As mentioned, local content is stored in your home directory in the `.modustoolbox/lcs` folder. If you want to share LCS with other users, you can copy it from your computer to a thumb drive or network server.

When other users want to use the local content, they can paste it into the same location on their computer (`[user-home]/.modustoolbox/lcs`) and the various ModusToolbox™ tools on the other computer will find it when they switch to use local content.

If another user copies the local storage to an alternate location, they will need to update the settings as described in [Update settings to use local content](#) section.

Note: *Local content can be shared over a network, but shouldn't be modified while it is shared.*

3 Other LCS options

3 Other LCS options

3.1 List LCS contents

To list the contents currently included in local content storage, use this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --list
```

This will display all versions of the BSPs and libraries in local content storage in case (all caps first) and alphabetical order.

3.2 List BSPs

To list only the included in local content storage in the *watchlist.json* file, use this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --list-bsps
```

This will display only the BSPs names without versions.

3.3 Remove all local content

To remove all content from local content storage, use this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --clear-all
```

This will delete all files from the *lcs/git* directory, and remove the list of BSPs from the *watchlist.json* file.

Note: *If you want to recreate local content storage after using this command, you should first delete the entire lcs directory.*

3.4 Remove BSP

To remove only a specified BSP and its dependencies from local content storage, use this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --clear-bsp <BSPName>
```

Where <BSPName> is a valid name of a BSP included in local content storage.

3.5 Check for updates

To check for updates to existing content in local storage, you must be connected to the internet. Then, use this command:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli --check-for-updates
```

3 Other LCS options

3.6 Update existing content

If the check for updates option indicates there are updates to your local content, run this command while connected to the internet:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --update-existing
```

Note: *The --update-existing command only brings down new versions of existing assets. It does NOT bring in new assets that have not already been downloaded unless those assets are related to a BSP in the watchlist (see [Create partial database](#) for information about setting up a watchlist). If you want to get all the latest content, including new assets and new versions of existing assets, then use the --add-all command.*

3.7 Update repo

If you only want to update a repo and its dependencies rather than everything, run this command while connected to the internet:

```
$HOME/ModusToolbox/tools_3.4/lcs-manager-cli/lcs-manager-cli --update <name>
```

Where <name> is a valid name a repo included in local content storage.

Revision history**Revision history**

Revision	Date	Description of change
**	2023-05-23	New document.
*A	2024-01-31	Updated to version 1.10.0. Clarified Windows usage.
*B	2024-09-27	Updated to version 1.11.0. Minor back-end changes.
*C	2024-12-06	Updated to version 1.20.0. Minor back-end changes.
*D	2025-03-21	Updated to 1.30.0.
*E	2025-04-28	Added section on sharing LCS.
*F	2025-08-29	Updated to 1.40.0. Back-end changes and bug fixes.
*G	2025-12-12	Updated to 1.50.0. Added link to Settings tool user guide. Back-end changes and bug fixes.
*H	2026-03-21	Updated to 1.60.0. Minor back-end changes.
*I	2026-08-15	Updated to 1.70.0. Minor back-end changes.

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