

ModusToolbox™ Settings tool user guide

ModusToolbox™ tools package version 3.6.0

ModusToolbox™ Settings tool version 1.10.0

About this document

[A newer version of this document may be available here.](#)

Scope and purpose

The ModusToolbox™ Settings tool allows you to configure a wide range of settings for your environment, such as proxy settings, content modes, and manifest DB settings.

Intended audience

This document helps application developers understand how to use the ModusToolbox™ Settings 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

Reference documents

Refer to the following documents for more information, as needed:

- [ModusToolbox™ Local Content Storage CLI user guide](#)
- [ModusToolbox™ tools package user guide](#)
- [ModusToolbox™ software installation guide](#)

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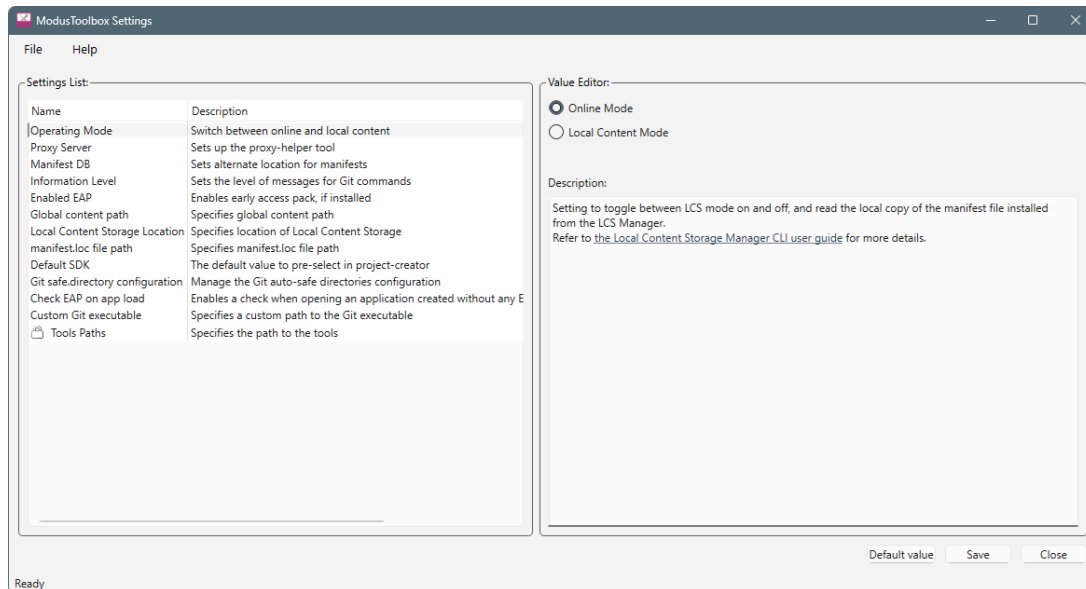
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1 Overview

1 Overview

There are various settings for the ModusToolbox™ ecosystem that can be set for a given user's development environment. These include proxy settings, enabling an early access pack (EAP), manifest location, and so on. For the ModusToolbox™ 3.5.0 and later tools package releases, the Settings tool provides a single place to configure these settings.



1.1 Menus

The Settings tool contains the following menus:

- **File:** This menu includes the **Exit** command to close the Settings tool.
- **Help:** This menu contains:
 - **View Help** – Opens this document.
 - **About** – Opens the About box for version information, with links to open Infineon.com and the current session log file.

1.2 Setting Environment Variables

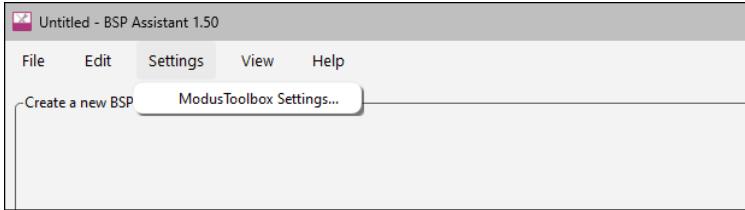
If you have previously used ModusToolbox™ software, you may have set up different environment variables which will override the Settings tool. In order for the Settings tool to run successfully, you will need to unset or delete the following:

- Operating Mode - MTB_USE_LOCAL_CONTENT
- Manifest DB - CyRemoteManifestOverride
- Local Content Storage Location - MTB_LOCAL_CONTENT_PATH
- Enabled EAP - MTB_ENABLE_EARLY_ACCESS
- Global content path - CY_GETLIBS_GLOBAL_PATH
- Alternate global path - CY_GETLIBS_GLOBAL_PATH
- Alternate *manifest.loc* path - CyManifestLocOverride

2 Launching the Settings tool

2 Launching the Settings tool

The Settings tool is stand-alone tool that can be launched from applicable tools with a **Settings** menu, such as the Dashboard, BSP Assistant, Library Manager, and Project Creator.



Only one instance of the Settings tool can be launched at any given time. If you attempt to launch more than one instance of the tool, only the first one will remain active while all others will close.

Note: Only the newest installed version of the Settings tool can run. For example, if versions 3.5 and 3.6 of ModusToolbox™ software are installed and you attempt to launch the Settings tool from version 3.5, it will close and 3.6 version of the Settings tool will be launched.

2.1 As a command-line tool

To run the Settings tool as a command-line tool, navigate to the install location and run the `mtb-settings-cli` executable from a command-line prompt. By default, it is installed here:

`<install_dir>/ModusToolbox/tools_<version>/mtb-settings`

For more information about command-line options, run the `mtb-settings-cli` executable using the `-h` option.

3 Configuring settings

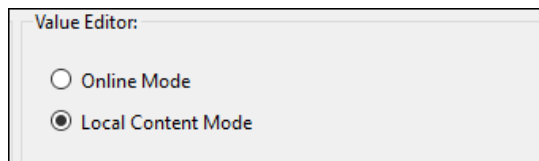
3 Configuring settings

The Settings tool includes the following options for configuration:

3.1 Operating Mode

This setting provides access to the Local Content Storage (LCS) feature, which provides a command-line tool called lcs-manager-cli 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. Refer to the [ModusToolbox™ Local Content Storage CLI user guide](#) for more details.

Use this setting to switch between online mode and local content mode.



Value Editor:

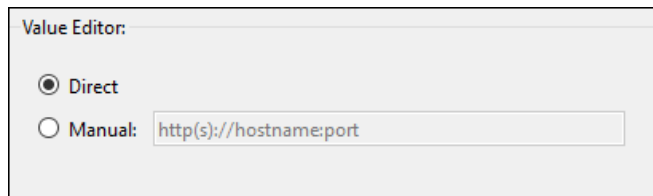
☐ Online Mode

☒ Local Content Mode

Note: *If you change settings, this may affect any instances of tools that are currently running. Additionally, if you make unsaved changes before adjusting the settings, it could lead to issues. It is recommended to avoid running other tools while modifying the settings.*

3.2 Proxy Server

The Proxy Server setting sets up the proxy-helper tool. Select either direct or manual proxy settings.



Value Editor:

☒ Direct

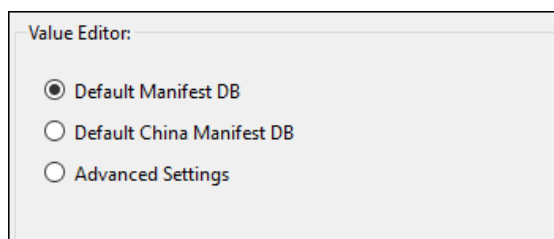
☐ Manual:

Note: *Save any changes before attempting to update proxy settings. A dialog will warn you that changes could be lost.*

3.3 Manifest DB

The manifest database determines the available BSPs and libraries used for your applications. In some cases, you may not be able to access the default location of the database. This is often an issue for users in corporate environments that block access to some sites.

If you have this issue, use this option to specify an alternate location of the manifest database.



Value Editor:

☒ Default Manifest DB

☐ Default China Manifest DB

☐ Advanced Settings

Select the desired option with the value editor:

- **Default Manifest DB** - Standard Infineon URL on GitHub

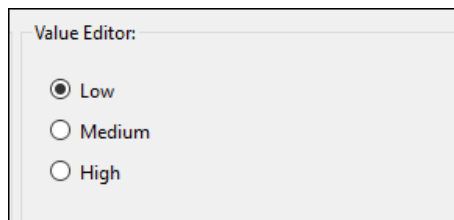
3 Configuring settings

- **Default China Manifest DB** - Standard URL for China users
- **Advanced Settings:** - Custom URL with the following options:
 - **User defined manifest DB URL:** Specifies a specific location of the manifest database for ModusToolbox™ tools, for example <https://mycompany/mtb-super-manifest/v2.X/mtb-supermanifest-fv2.xml>.
 - **Git insteadOf - old value:** This provides a value, for example [GitHub.com/Infineon](https://github.com/Infineon), that Git will use to switch to a new value.
 - **Git insteadOf - new value:** This provides a new value, for example mycompany.com/mtbmanifest, that Git will substitute for the old value.

Refer to the [ModusToolbox™ tools package user guide](#) for more details about manifests.

3.4 Information Level

The Information Level setting allows you select the level of messages for Git commands. Select one of the following levels of output for Git operations:



Value Editor:

☒ Low

☐ Medium

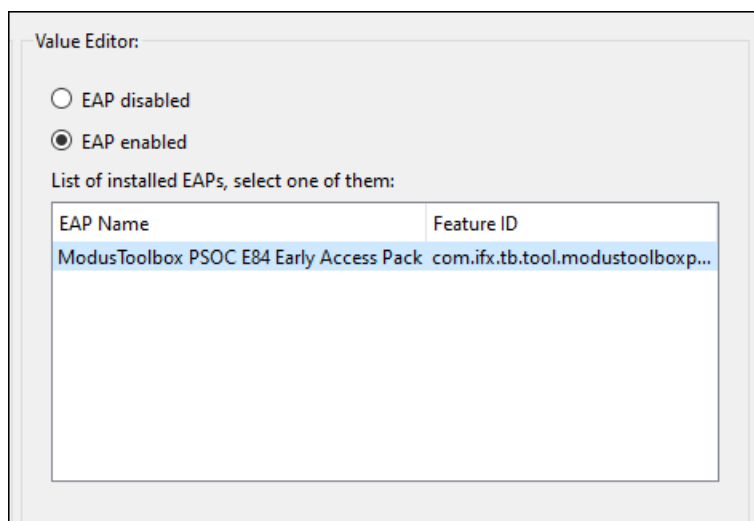
☐ High

- **Low:** Displays spinner when downloading Git repos.
- **Medium:** Displays numerical representation of progress, as well as any running sub-commands.
- **High:** Includes spinner, running sub-commands, and visual representation of progress.

3.5 Enabled EAP

If you have an early access pack (EAP) installed, this setting allows you to choose the enabled EAP from the list or disable the EAP. When you select an EAP from the list, it will automatically get enabled when you click **Save**.

Refer to the [ModusToolbox™ software installation guide](#) for more details on installing early access packs.



Value Editor:

☐ EAP disabled

☒ EAP enabled

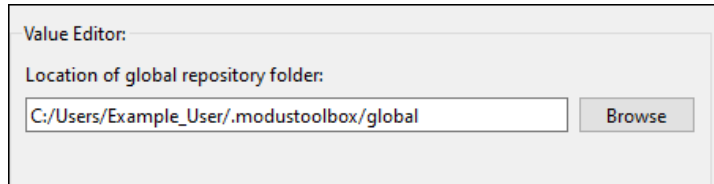
List of installed EAPs, select one of them:

EAP Name	Feature ID
ModusToolbox PSOC E84 Early Access Pack	com.ifx.tb.tool.modustoolboxp...

3 Configuring settings

3.6 Global content path

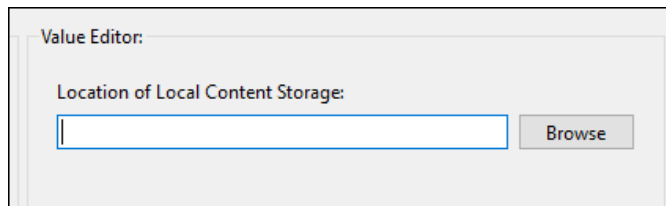
This setting allows you to specify an alternative path to the global repository folder. Click the **Browse** button to navigate to the location of the global repository folder.



The screenshot shows a 'Value Editor' dialog box. It has a title bar 'Value Editor:'. Below the title bar, the text 'Location of global repository folder:' is displayed. Underneath, there is a text input field containing the path 'C:/Users/Example_User/.modustoolbox/global'. To the right of the input field is a 'Browse' button.

3.7 Local Content Storage Location

If you installed LCS in a non-default location, use this setting to specify that location. Click the **Browse** button to navigate to the location of the LCS folder.

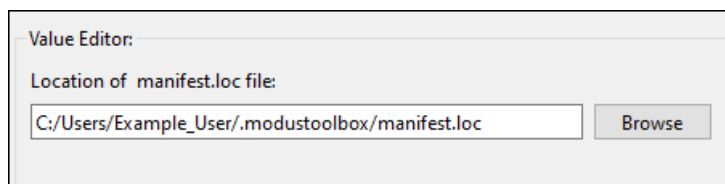


The screenshot shows a 'Value Editor' dialog box. It has a title bar 'Value Editor:'. Below the title bar, the text 'Location of Local Content Storage:' is displayed. Underneath, there is an empty text input field. To the right of the input field is a 'Browse' button.

Note: Forbidden characters, including spaces, cannot be used in the path value.

3.8 *manifest.loc* file path

If you installed the ModusToolbox™ tools package in a non-default location, use this setting to specify an alternative path to the *manifest.loc* file. Click the **Browse** button to navigate to the location of the *manifest.loc* repository folder.

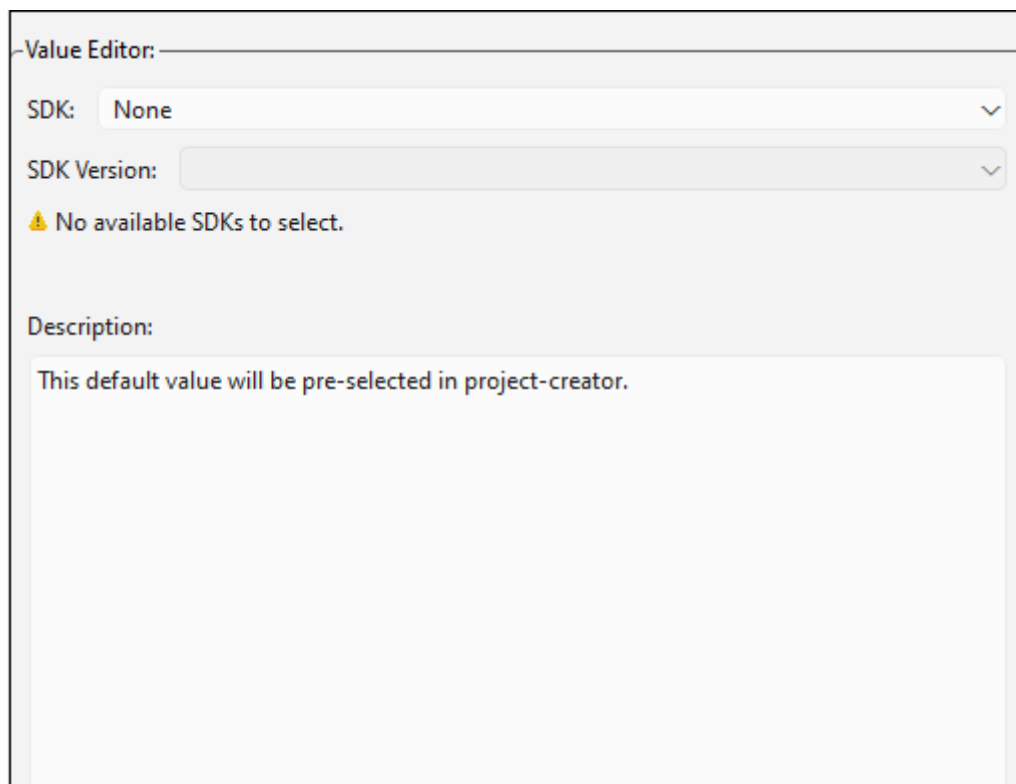


The screenshot shows a 'Value Editor' dialog box. It has a title bar 'Value Editor:'. Below the title bar, the text 'Location of manifest.loc file:' is displayed. Underneath, there is a text input field containing the path 'C:/Users/Example_User/.modustoolbox/manifest.loc'. To the right of the input field is a 'Browse' button.

3 Configuring settings

3.9 Default SDK

The default SDK setting allows you to select a virtual SDK in various tools like Project Creator and Library Manager. A virtual SDK is a list of assets (kits, applications, libraries, etc.) and specific versions of those assets. While no actual virtual SDKs have been created at this time, the support is in place for them and will be available in the near future.



The screenshot shows a 'Value Editor' window with the following elements:

- SDK:** A dropdown menu currently showing 'None'.
- SDK Version:** A dropdown menu.
- Message:** A yellow warning icon followed by the text 'No available SDKs to select.'
- Description:** A text area containing the message: 'This default value will be pre-selected in project-creator.'

3 Configuring settings

3.10 Git safe.directory configuration

This setting creates a temporary Git configuration used to avoid errors caused when cloning Git repositories from shared local folders. Use the value editor to turn the feature on and automatically create a temporary configuration. Alternatively, you can use the value editor to turn the feature off and configure Git manually.

Value Editor:

☒ Turn On
☐ Turn Off

Description:

This setting controls the creation of a temporary Git configuration used to ensure proper handling when cloning Git repositories from shared local folders. Without this, such operations may result in errors like: **"fatal: detected dubious ownership in repository"**. These errors are related to the Git security vulnerability [CVE-2022-24765](#). To avoid them, each affected repository must be listed in *safe.directory*.
The temporary configuration is created automatically and works as follows:

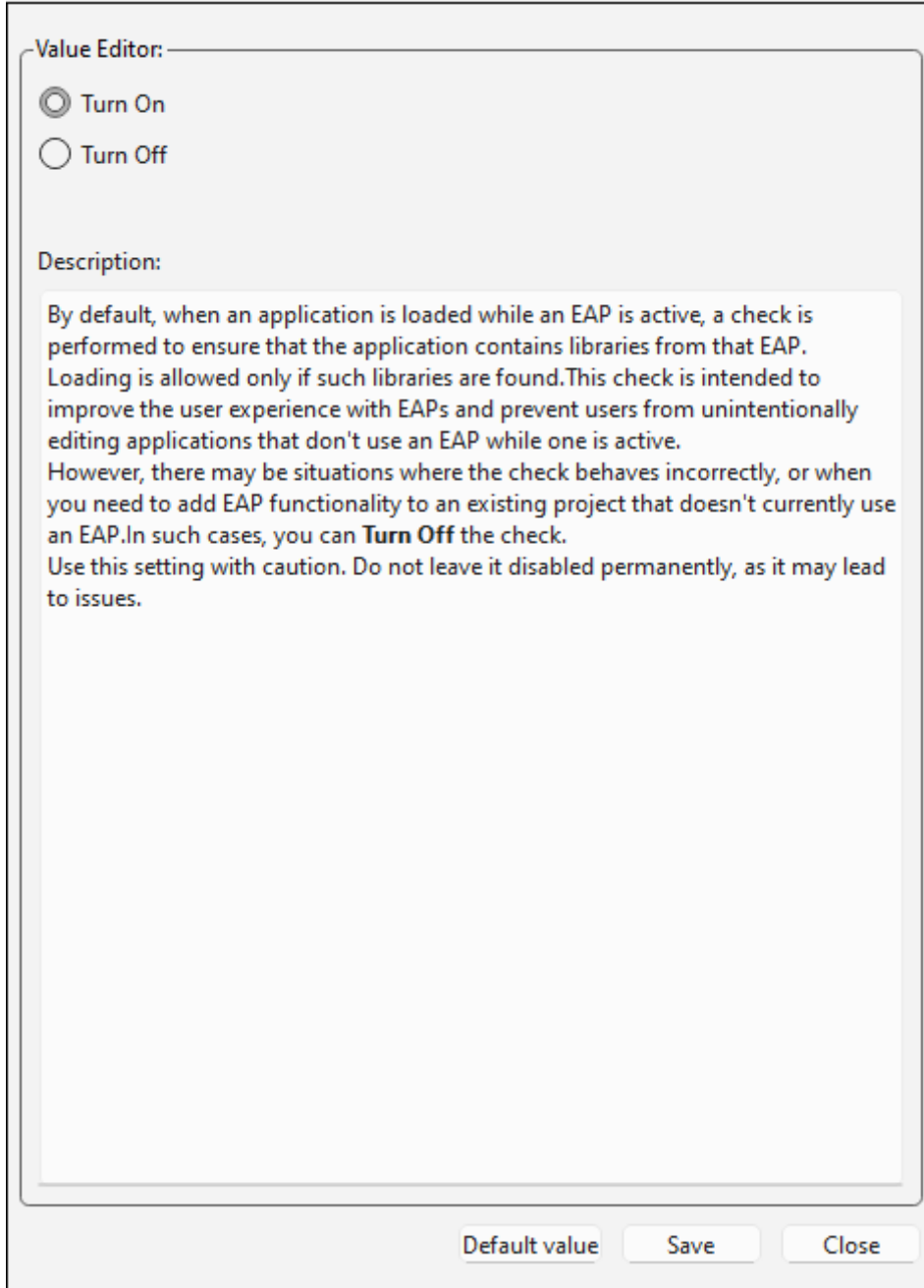
1. It collects all local repositories used by the ModusToolbox™ tools.
2. It checks your current Git configuration to see which of these are already registered in *safe.directory*.
3. It builds a temporary Git configuration that includes only the missing entries, and links to your main Git config. Your original settings remain unchanged.
4. The ModusToolbox™ tools prints information to the console, including what was done and how you can configure Git manually if needed.

If you prefer to manage *safe.directory* yourself, you can disable this feature and configure Git manually.

3 Configuring settings

3.11 Check EAP on app load

This setting enables a check when an early access pack (EAP) is active to ensure that the application contains libraries from that EAP. While this setting is meant to improve the overall user experience with EAPs, you can choose to disable the check feature for your project, if needed.



Value Editor:

☒ Turn On
☐ Turn Off

Description:

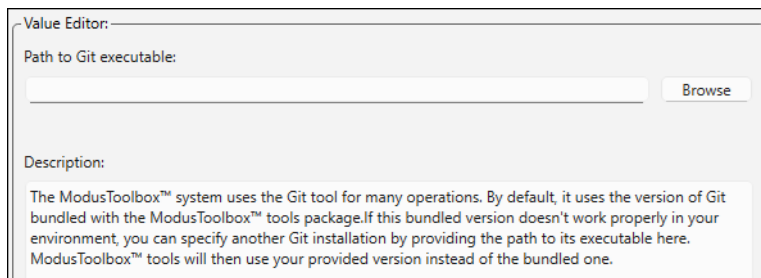
By default, when an application is loaded while an EAP is active, a check is performed to ensure that the application contains libraries from that EAP. Loading is allowed only if such libraries are found. This check is intended to improve the user experience with EAPs and prevent users from unintentionally editing applications that don't use an EAP while one is active. However, there may be situations where the check behaves incorrectly, or when you need to add EAP functionality to an existing project that doesn't currently use an EAP. In such cases, you can **Turn Off** the check. Use this setting with caution. Do not leave it disabled permanently, as it may lead to issues.

Default value Save Close

3 Configuring settings

3.12 Custom Git executable

If the default version of Git bundled with the tools package does not work properly, this setting allows you to specify a different Git installation by entering the path to its executable.



The image shows a 'Value Editor' dialog box. At the top, it says 'Value Editor:'. Below that, there is a label 'Path to Git executable:' followed by a text input field and a 'Browse' button. Below the input field, there is a 'Description:' section. The description text reads: 'The ModusToolbox™ system uses the Git tool for many operations. By default, it uses the version of Git bundled with the ModusToolbox™ tools package. If this bundled version doesn't work properly in your environment, you can specify another Git installation by providing the path to its executable here. ModusToolbox™ tools will then use your provided version instead of the bundled one.'

3 Configuring settings

3.13 Tools Paths

This setting is controlled by the environment variable 'CY_TOOLS_PATHS' and cannot be changed using the Settings tool. To change this setting, you must change the environment variable.

Value Editor:

This setting is controlled by the environment variable 'CY_TOOLS_PATHS' and cannot be changed using the Settings tool. To change this setting, you must change the environment variable.

Tools Paths:

4 Version changes

4 Version changes

Version	Change Descriptions
1.0.0	New Settings tool.
1.10.0	Updated settings list to include Default SDK, Git safe.directory configuration, Check EAP on app load, and Custom Git executable.

Revision history

Revision history

Document revision	Date	Description of changes
**	2025-04-02	New document.
*A	2025-09-05	Updated document to version 1.10.0

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