

xPC TargetBox® Release Notes

The section “xPC TargetBox (Software 2.8) Release Notes” on page 1-1 describes the changes introduced in the latest version of the xPC TargetBox software. The following topic is discussed in these release notes.

- “New Features” on page 1-2

The xPC TargetBox Release Notes also provide information about recent versions of the product, in case you are upgrading from a version that was released prior to Release 14SP1+.

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Printing the Release Notes

If you would like to print the release notes, you can link to a PDF version.

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New Features

This section introduces the new features and enhancements added since Software Version 2.7.2 (Release 14SP2). Note that 2.8 refers to the xPC Target software version. The hardware version of xPC TargetBox is 1.

xPC Target Explorer

The xPC Target Explorer has the following enhancements:

- **Apply** and **Revert** buttons have been added to the bottom of many panes.
 - **Apply** — Click this button to apply changes.
 - **Revert** — Use the **Revert** button to retrieve old values.
- Target PC nodes now have a PCI Devices node. This lists all PCI devices detected on the target PC.

Known Software and Documentation Problems

At publication time, the xPC TargetBox had no significant known open bugs. The Bug Reports interface on the MathWorks Web site will be updated if any important bugs become known to the MathWorks after the publication of these release notes.

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New Features

This section introduces the new features and enhancements added since Software Version 2.7.1 (Release 14SP2). Note that 2.7.2 refers to the xPC Target software version. The hardware version of xPC TargetBox is 1.

xPC Target Explorer

xPC Target Explorer has been enhanced and now fully supports the following:

- Inlined parameters
- Monitoring of test-pointed Stateflow[®] states.

xPC TargetBox (Software 2.7) Release Notes

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New Features

This section introduces the new features and enhancements added since Software Version 2.6.1 (Release 14SP1). Note that 2.7 refers to the xPC Target Software Version. The hardware version of xPC TargetBox is 1.

xPC Target Explorer

xPC Target Explorer has been enhanced and now fully supports the following:

- Scopes of type file
- Access to target PC file systems
- Ability to export and import target PC environments
- Designating a default target PC
- Ability to view PCI device information

See the xPC Target Getting Started and User's Guide documentation for details.

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New Features

This section introduces the new features and enhancements added since Software Version 2.6.1 (Release 14). This section introduces the new features and enhancements added since Software Version 2.6 (Release 14). Note that 2.6 and 2.6.1 refer to the xPC Target software version. The hardware version of xPC TargetBox is 1.

xPC Target Explorer

This release includes the first officially supported version of the xPC Target Explorer. It is a graphical user interface for xPC Target. It provides a single point of contact for almost all xPC Target interactions, including

- Configure the host PC for xPC Target
- Add and configure xPC TargetBox for xPC Target
- Create boot disks for a particular xPC TargetBox
- Connect the xPC TargetBox for your xPC Target system to the host PC
- Download a prebuilt target application, .d1m, to the xPC TargetBox
- Build a target application for the xPC TargetBox
- Start and stop the application that has been downloaded to the xPC TargetBox
- Add scopes of type host, target, and file to the downloaded target application
- Monitor signals
- Add and remove signals to the xPC Target scopes
- Start and stop scopes
- Adjust parameter values for the signals while the target application is running

The xPC Target Explorer GUI runs on your xPC Target host machine.

Use xPC Target Explorer or your usual xPC Target interfaces to perform xPC Target activities. This tool encompasses the functionality of `xpcsetup`, `xpcrctool`, `xpcscope`, and `xpctgscope`. Note that in a future release, `xpcrctool`, `xpcscope`, and `xpctgscope` will become obsoleted.

See the xPC Target Getting Started and User's Guide documentation for details on xPC Target Explorer.

Changes from the Previous Release

The behavior of source block dialog boxes has changed as follows:

- Opening a dialog box for a source block causes Simulink® to pause. While Simulink is paused, you can edit the parameter values. You must close the dialog box to have the changes take effect and allow Simulink to continue.
In particular, hardware input blocks in the xPC TargetBox library (blocks that acquire data from hardware) are affected by this change.
- The xPC Target Explorer no longer supports changing tunable source block parameters while a simulation is running. You will find all such parameter fields disabled while a simulation is running.

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New Features

xPC TargetBox (Software 2.6) is a Web download release. This section introduces the new features and enhancements added since Software Version 2.5 (Release 14). Note that 2.5 and 2.6 refer to the xPC Target software version. The hardware version of xPC TargetBox is 1.

xPC Target Explorer (Beta)

This release includes a Beta version of the xPC Target Explorer. It is a graphical user interface for xPC Target. It provides a single point of contact for almost all xPC Target interactions, including

- Configure the host PC for xPC Target
- Add and configure xPC TargetBox for xPC Target
- Create boot disks for a particular xPC TargetBox
- Connect the xPC TargetBox for your xPC Target system to the host PC
- Download a prebuilt target application, .dlm, to the xPC TargetBox
- Build a target application for the xPC TargetBox
- Start and stop the application that has been downloaded to the xPC TargetBox
- Add scopes of type host, target, and file to the downloaded target application
- Add and remove signals to the xPC Target scopes
- Start and stop scopes
- Adjust parameter values for the signals while the target application is running

The xPC Target Explorer GUI runs on your xPC Target host machine.

You can use xPC Target Explorer or your usual xPC Target interfaces to perform xPC Target activities. This is the Beta release of the xPC Target Explorer. The MathWorks encourages you to use this new interface and provide feedback.

See the xPC Target Getting Started and User's Guide documentation for details on xPC Target Explorer.

I/O Device Driver Support

The new driver xPC TargetBox IO 301: Diamond Diamond-32-AT Frame A/D has been added to the xPC TargetBox library.

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New Features

This section summarizes the new features and enhancements introduced in the xPC TargetBox 2.5 since Software Version 2.0.1.

I/O Device Driver Support

xPC TargetBox 2.5 has a new driver block in xPC TargetBox IO 301: Diamond Diamond-32-AT Frame A/D. To access this driver block, use the xPC Target library. Type

```
xpclib
```

This driver block will be added to the TargetBox library in the next release.

C and COM API

You no longer need to purchase xPC Target Embedded Option to create stand-alone GUI applications with the xPC Target C or COM API. However, to deploy a GUI application to other host PC systems that do not have your licensed copy of xPC Target, you do need the xPC Target Embedded Option. If you do not have the xPC Target Embedded Option and would like to deploy your GUI application, contact your MathWorks representative.

xPC TargetBox Help Documentation

In xPC TargetBox 2.5, the Help documentation is now installed when you install xPC Target.

xPC TargetBox 2.0.1

Release Notes

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New Features

This section summarizes the new features and enhancements introduced in the xPC TargetBox 2.0.1 since Version 2.0.

DOSLoader and StandAlone Boot Modes

xPC Target now includes, for xPC TargetBox only, the additional boot modes from the Embedded Option. See Chapter 3, “Regular Use,” in the xPC TargetBox user’s documentation for further details.

Test Application Board Base Address

When you run the self-test preinstalled on the xPC TargetBox flash disk, the monitor now displays the base address for the board for which the test application was created. See the xPC TargetBox user’s documentation for further details.