

# READ THIS FIRST

## PTC® Mathcad® Prime® 4.0

Important Installation and Usage Information

Directory of Online and DVD-ROM Information

Platform Support	<a href="http://support.ptc.com/partners/hardware/current/support.htm">http://support.ptc.com/partners/hardware/current/support.htm</a>
Technical Support	<a href="https://support.ptc.com/appserver/cs/portal/">https://support.ptc.com/appserver/cs/portal/</a>
Knowledge Base	<a href="http://www.ptc.com/appserver/cs/search/search.jsp">http://www.ptc.com/appserver/cs/search/search.jsp</a>
Reference Documents	<a href="http://www.ptc.com/appserver/cs/doc/refdoc.jsp">http://www.ptc.com/appserver/cs/doc/refdoc.jsp</a>

## PTC Introduces PTC Mathcad Prime 4.0

Design the next generation of products with PTC Mathcad Prime 4.0. Show, solve, and secure your engineering calculations more effectively than ever. Take advantage of new capabilities in the areas of content protection, interoperability with third party applications, and usability enhancements. See [PTC Mathcad Prime 4.0 What's New](#) for more information.

### Using PTC Mathcad Express Prime 4.0

PTC Mathcad Express Prime 4.0 is a free version of the product with selected features. After the installation of Mathcad Express, you can explore the full capabilities of the commercial product for 30 days. After that period, you can use only the selected features indefinitely.

In Mathcad Express, a watermark is displayed in the footer of your worksheets. In addition, a message window on the right includes information on selected features, training, tips and tricks, as well as easy ways to purchase the commercial product. When you upgrade to the commercial product, the watermark disappears and you can choose to close the message window.

### Migrating from Earlier Releases of Mathcad

For users of PTC Mathcad 15.0 and earlier, see the *PTC Mathcad Prime 4.0 Migration Guide*. Mathcad Prime 4.0 has significant differences from Mathcad 15.0 and does not support all its capabilities. The Migration Guide provides information and procedures for converting your worksheets to Mathcad Prime 4.0. You can use the converter for files from Mathcad 7.0 through 15.0.

### Installation

For the most up-to-date installation information, see the *PTC Mathcad Prime 4.0 Installation and Administration Guide*. In the PTC Installation Assistant, click **Help** or browse for the guide on the [Reference Documents](#) page.

Copyright © 2017 PTC Inc.

January 2017  
English

Read This First  
PTC Mathcad Prime 4.0

You can install Mathcad Prime 4.0 side-by-side with any previous version. For installing Mathcad Prime 4.0 side-by-side with an earlier release of Mathcad Prime, the following limitations apply:

- Mathcad Prime 4.0 is available in 32-bit and 64-bit versions. You cannot install both versions on the same computer. Install the version that matches your computer for maximum performance. Within PTC Installation Assistant, click **Customize**. If you try to install both versions, the installer displays a message saying that Mathcad Prime is already installed and then copies over files from the previous installation.
- You must install the products in an ascending order (Mathcad Prime 1.0 and then Mathcad Prime 4.0, for example) to maintain the worksheet file associativity with the latest release.
- If you have installed two releases, by default Mathcad files open with the latest release. To open files in an earlier release, you must manually set file association. In Windows Explorer, right-click a file, select **Open with**, and then click the desired program from the shortcut menu.
- After you install Mathcad Prime 4.0, integrations with Windchill® Workgroup Manager, Windchill ProductPoint, Pro/ENGINEER®, Creo® Elements/Pro®, and Creo Parametric® will no longer work with earlier releases of the product.
- If you previously registered Mathcad releases Prime 3.1, Prime 3.0, Prime 2.0 or Prime 1.0 with Windchill Workgroup Manager, you must repeat the process and register Mathcad Prime 4.0. Use the Application Management utility.
- If you have one or more releases of Mathcad installed on your computer, you can remove one or all of them. You must uninstall them in descending order, and then reinstall them in ascending order.
- After installing Mathcad Prime 4.0, you can only use the latest XMCD, MCD Converter to convert legacy Mathcad worksheets into Mathcad Prime 4.0 worksheets.

### **Operating System Support**

PTC Mathcad Prime 4.0 runs on Windows 7.0\* (32-bit or 64-bit), Windows 8.1 (32-bit or 64-bit), or Windows 10.0 (32-bit or 64-bit) compatible machine.

\* Mathcad Prime 4.0 requires Microsoft .NET Framework 4.6.2 (or a later, Microsoft certified compatible replacement version of .NET). On Windows 7 client computers, Microsoft .NET Framework is enabled by default. On Windows 7 servers, this feature is disabled and you must enable it through **Control Panel > Programs > Turn Windows features on or off**.

### **Installing Mathcad 15.0 M030 or Later**

The installation of Mathcad 15.0 M030 or later is a separate process. The installation process uninstalls any previously installed versions. You can download the latest release from <http://www.ptc.com/support/mathcad.htm>.

### **System Requirements and Hardware Certification Information**

Visit the [Platform Support](#) page for Mathcad Prime 4.0 for updated system requirements and certified hardware configurations.

## Licensing

Full product licensing options include floating, locked, or registered-user volume licenses, all of which (except for perpetual licenses) must be renewed on an annual basis.

- A 30-day, full capability license can be used by any workstations on your network. After the 30-day period, the product reverts to Mathcad Express Prime 4.0.
- Floating licenses can be used by any workstation on your network.
- Locked licenses can only be used on specified workstations.
- Registered-user licenses are administered from a license server. They are always allocated to a particular workstation, regardless of whether the workstation is running Mathcad at the time.

**Note:** For floating licenses, in addition to use of a single license server, Mathcad Prime 4.0 supports the configuration of the triad license server.

For more information on licensing, see the *PTC Mathcad Prime 4.0 Installation and Administration Guide*.

## Language Support

The Mathcad Prime 4.0 user interface and documentation are translated into French, German, Italian, Spanish, Japanese, Korean, Simplified Chinese, Traditional Chinese, and Russian. During installation, the PTC Installation Assistant installs the product based on the language and locale settings of your computer. By clicking the **Customize** button, you can select whether to install the Help according to the locale settings of your computer or in all languages. Within the Help, you can choose to change the Help language.

To run the application in a language different from your operating system locale (e.g. to run German on a Belgian system), follow these directions.

1. Click the Windows Start button to access the Run dialog box or the command line.
2. To get the correct path needed for your 32-bit or 64-bit version, right-click the Mathcad Prime 4.0 icon on your desktop. Click **Properties**, and copy the path shown in the **Target** text box. An example path follows:

```
"C:\Program Files (x86)\PTC\Mathcad Prime 4.0\MathcadPrime.exe"
```

This path is for a 32-bit version of Mathcad Prime running on a 64-bit computer.

3. In the Run dialog box or at the command line, paste the path. Include the quotation marks at both ends, leave a space and type `/culture:` followed by a command argument for one of the languages shown in the next table. For example, to run Mathcad Prime in French using the path above, the following command would be used:

```
"C:\Program Files (x64)\PTC\Mathcad Prime 4.0\MathcadPrime.exe"  
/culture:fr-FR
```

Abbreviations for all languages follow:

Language	Command Argument
English	en-US
French	fr-FR
German	de-DE
Italian	it-IT
Japanese	ja-JP
Korean	ko-KR
Russian	ru-RU
Spanish	es-ES
Simplified Chinese	zh-CN
Traditional Chinese	zh-TW

To view system messages in a language other than English, you must download and install the .NET Framework language pack that matches the language you are using for Mathcad Prime 4.0. The language packs can be found at <https://www.microsoft.com/en-us/download/details.aspx?id=53323>.

### Using Function Names and Keyboard Shortcuts in Supported Languages

For Mathcad Prime 4.0, function names remain in English for all languages.

Keyboard shortcuts for certain commands do not work on non-English keyboards in Mathcad Prime 4.0. You can access those operators and commands from the Ribbon.

You can access the list of all keyboard shortcuts from the **Resources** tab in the Ribbon.

### Interoperability

PTC Product	Interoperability with Mathcad Prime 4.0
Creo Parametric	In addition to the existing Mathcad Prime Analysis Feature integration, Mathcad Prime 4.0 includes the Engineering Notebook, powered by PTC Mathcad. With this functionality you can embed a Mathcad worksheet directly within a Creo part or assembly, enabling the user to document design intent or critical engineering decisions within the Creo model itself. It also allows data to be shared between the embedded Mathcad worksheet and the Creo model using existing Creo UI and relations to link parameters. For embedded Mathcad worksheets, click <b>Assign Inputs</b> or <b>Assign Outputs</b> from the <b>Integration</b> group on the <b>Input/Output</b> tab to designate parameters to be shared with Creo.
Windchill Workgroup	Work directly from Mathcad with these products. For

PTC Product	Interoperability with Mathcad Prime 4.0
Manager (Windchill PDMLink®, Pro/INTRALINK®, Windchill ProjectLink™)	example, you can check in and check out files to Windchill, and you can open and save your Windchill files from Mathcad.

## Mathcad Prime 4.0 Help Center—Help and Books

The English language Help and books for Mathcad Prime 4.0 are on the DVD. You can download localized versions via the PTC Installation Assistant. You can access the Help Center by clicking the question mark icon on the right end of the Ribbon or by pressing F1. The following items are in Help Center:

- Searchable, context-sensitive Help
- Getting Started Tutorial
- Programming Tutorial
- Solving Tutorial
- Reference Tables (Available only in English)

Mathcad Prime provides direct access to many resources from the **Resources** tab on the Ribbon.

To access PTC documentation from the Web, you must have a PTC account, or register for one at <http://www.ptc.com/appserver/common/account/basic.jsp>.

## Firewall and Internet Issues

In a few cases, Mathcad Prime 4.0 may access the Internet:

- **Help Center:** Mathcad Prime 4.0 uses HTTP to access the Help Center. If an active firewall on your computer warns that Mathcad Prime 4.0 or the Help Center is attempting to access the Internet, you must allow this access. Mathcad Prime 4.0 does not access the Internet, but it opens an HTTP connection to the Help Center on the local host. If local Help is installed, the Help Center runs as an HTTP server on the first available port. Configure your firewall to allow this access. If your company policies do not allow the Help Center to run on your local system, consider setting up a shared remote Help Center.
- **News and Information:** Mathcad Prime 4.0 uses an RSS feed to display current news and information about Mathcad within the application window. This reporting feature can be disabled when using a full license. When using either the 30-day, full capability license or Mathcad Express (no license), this panel cannot be disabled, but it can be turned off after startup.
- **PTC Diagnostic Tools data reporting:** Mathcad Prime 4.0 performance and usage data is collected and transmitted to PTC servers via SSL. You can disable data reporting when using Mathcad Prime 4.0 with a full license. When using either the 30-day, full capability license or Mathcad Express Prime 4.0 (no license), this capability cannot be disabled.

## Converting Files from Previous Versions of Mathcad

From Mathcad Prime 4.0, you cannot directly open documents (mcd, xmcd, xmcdz) created with Mathcad 15.0 or earlier. You must convert them using the PTC Mathcad Prime 4.0 XMCD, MCD Converter. Mathcad 15.0 M045 or later must be installed on the computer.

Access the converter from the **Input/Output** tab or from the Windows Start menu. For more information on file conversion, see the *PTC Mathcad Prime 4.0 Migration Guide*.

## Compatibility between Versions of Mathcad Prime

Mathcad Prime 4.0 can open worksheets last saved in Mathcad Prime 1.0, 2.0, 3.0, and 3.1. It can also open worksheets last saved in Mathcad Prime 2.0 M010. However, Mathcad Prime 1.0, Mathcad Prime 2.0, Mathcad Prime 3.0 and Mathcad prime 3.1 cannot open worksheets last saved in Mathcad Prime 4.0.

©2017 PTC Inc. The information contained herein is provided for informational use and is subject to change without notice. The only warranties for PTC products and services are set forth in the express warranty statements accompanying such products and services and nothing herein should be construed as constituting an additional warranty. PTC shall not be liable for technical or editorial errors or omissions contained herein. Important Copyright, Trademark, Patent, and Licensing Information: See the About Box, or copyright notice, of your PTC software.