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Mathcad[®] Prime[™] 1.0

Important Installation and Usage Information

Directory of Online and CD-ROM Information

Platform Support	http://www.ptc.com/partners/hardware/current/support.htm
Mathcad Support Center	http://www.ptc.com/support/mathcad.htm
Knowledge Base	http://www.ptc.com/appserver/cs/search/search.jsp
Reference Documents	http://www.ptc.com/appserver/cs/doc/refdoc.jsp

PTC[®] Introduces Mathcad Prime 1.0

PTC is pleased to present Mathcad Prime 1.0. This release of PTC's next-generation, engineering-calculation software combines unprecedented usability and a rejuvenated documentation focus. The release builds upon the power of Mathcad's traditional whiteboard interface, functional depth, and units-management. See the *What's New* product release notes for more information: <http://www.ptc.com/appserver/cs/doc/refdoc.jsp>.

For users of Mathcad 15.0 and earlier, see the *Mathcad Prime 1.0 Migration Guide*. Mathcad Prime 1.0 has significant differences from Mathcad 15.0 and does not support all functionality in Mathcad 15.0. The Migration Guide provides information and procedures for converting your worksheets. In addition, Mathcad Prime 1.0 introduces a converter to convert files from previous versions of Mathcad into Mathcad Prime 1.0.

Installation

For the most up-to-date installation information, see the *Mathcad Prime 1.0 Installation and Administration Guide*. In PTC.Setup, click **Help > Installation Guide**, or browse for it on the **Reference Documents** page at <http://www.ptc.com/appserver/cs/doc/refdoc.jsp>.

You can install Mathcad Prime 1.0 side-by-side with any previous version of Mathcad. If a prerelease version of Mathcad Prime 1.0 exists, uninstall it before installing Mathcad Prime 1.0.

Operating System Support

Operating System	Version
Microsoft Windows XP x32	Windows XP Professional x32 Edition and Windows XP Home Edition SP3, Base OS and Service Packs (1, 2, and 3), Internet Explorer 6.0 SP1 or later
Microsoft Windows XP x64	Windows XP Professional x64 Edition, Base OS and Service Pack 2, Internet Explorer 6.0 SP1 or later

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English

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Operating System	Version
Microsoft Windows Vista	Windows Vista Ultimate, Windows Vista Business, and Vista Enterprise, Base OS (x32 and x64 editions) and Service Pack 1, Internet Explorer 7.0
Windows 7*	Windows 7 Home Premium Edition, Windows 7 Professional Edition, and Windows 7 Ultimate Edition, Base OS (x32 or x64 editions), Internet Explorer 7.0 SP1 or later

* Mathcad Prime 1.0 requires Microsoft .NET Framework 3.5 SP1 or later. On Windows 7 client computers, Microsoft .NET Framework 3.5 SP1 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**.

System Requirements and Hardware Certification Information

Visit the **Platform Support** page for Mathcad Prime 1.0 for updated system requirements and certified hardware configurations:

<http://www.ptc.com/partners/hardware/current/support.htm>

Note:

- Mathcad Prime 1.0 requires Microsoft .NET Framework 3.5 SP1, which must be installed first from <http://www.microsoft.com/downloads/details.aspx?FamilyID=ab99342f-5d1a-413d-8319-81da479ab0d7&DisplayLang=en>. See also Operating System Support for more information.
- Internet Explorer 7.0 or later is required for full functionality of the Help system.

Licensing

Licensing options include floating, locked, trial, or registered-user volume licenses, all of which must be renewed on an annual basis.

- Floating licenses can be used by any workstation on your network.
- Locked licenses can only be used on specified workstations.
- Trial licenses can be used by any workstation on your network and will expire after 30 days.
- 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.

For more information on Mathcad Prime 1.0 licensing, see the *Mathcad Prime 1.0 Installation and Administration Guide*.

Language Support

The Mathcad Prime 1.0 user interface and documentation are translated into French, German, Italian, Spanish, Japanese, Korean, Simplified Chinese, Traditional Chinese, and Russian. During installation, PTC.Setup installs the product based on the language and locale settings of your computer. You can select whether you want 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 and then click Run. The Run dialog box opens.
2. In the Open box, type "`C:\Program Files\Mathcad\Mathcad Prime 1.0\MathcadPrime.exe`" `/culture:en-US`. In this example, C is the drive where Mathcad Prime 1.0 is installed, and *en-US* is the desired language and locale. You can use the following abbreviations for other languages:

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

Using Function Names and Keyboard Shortcuts in Supported Languages

For Mathcad Prime 1.0, function names remain in English for all languages.

Keyboard shortcuts for certain commands do not work on non-English keyboards in Mathcad Prime 1.0. You can access those operators and commands from the Ribbon.

For Mathcad Prime 1.0, a list of all keyboard shortcuts resides in the following path:

```
<Installation  
Directory>\Doc\<language>\Mathcad_Prime_Keyboard_Shortcuts_<language  
>.pdf.
```

You can also access the keyboard shortcuts list from the **Getting Started** tab in the Ribbon.

Interoperability

PTC Product	Interoperability with Mathcad Prime 1.0
Pro/ENGINEER Wildfire 5.0	Designate variables in Mathcad as Pro/ENGINEER input and output parameters. Asynchronously map Pro/ENGINEER parameters to Mathcad variables from within the Mathcad Analysis Feature interface within Pro/ENGINEER. Within Mathcad, click Assign Input or Assign Output from the Integration group on the Input/Output tab.
Windchill® ProductPoint®	Develop and manage your worksheets. Use over-the-network storage systems and FTP sites to enable version control.
Windchill Workgroup Manager (Windchill PDMLink®, Pro/INTRALINK®, Windchill ProjectLink)	Work directly from Mathcad with these products. For example, you can check in and check out files to Windchill, and you can open and save your Windchill files from Mathcad.

Mathcad Prime 1.0 Help Center—Help and Books

Help and books for Mathcad Prime 1.0 are on the CD-ROM. 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 for Mathcad Prime 1.0
- Mathcad Prime 1.0 Installation and Administration Guide
- Getting Started Tutorial
- Programming Tutorial
- Solving Tutorial

Mathcad Prime 1.0 provides direct access to these resources. In addition, you can access the *Mathcad Prime 1.0 Migration Guide* and a variety of online resources from the **Getting Started** tab on the Ribbon.

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

Firewall and Internet Issues

Mathcad Prime 1.0 uses HTTP to access the Help Center. If an active firewall on your computer warns that Mathcad Prime 1.0 or the Help Center is attempting to access the Internet, you must allow this access. Mathcad Prime 1.0 does not access the Internet, but opens an HTTP connection to the Help Center on the localhost. 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.

Converting Files from Previous Versions of Mathcad

You must have Mathcad 15.0 M005 or later to convert worksheets that you created in previous releases of Mathcad to Mathcad Prime 1.0. You cannot open previous Mathcad worksheets directly. You must convert them using the **XMCD, MCD Converter** button on the **Input/Output** tab in Mathcad Prime 1.0. For more information on file conversion, see the *Mathcad Prime 1.0 Migration Guide*.

Installing Mathcad 15.0 M005

The installation of Mathcad 15.0 M005 is a separate installation from Mathcad Prime 1.0. Mathcad 15.0 M005 will uninstall Mathcad 14.0 and Mathcad 15.0 F000 if you have them installed. Mathcad 15.0 M005 is a full working version of Mathcad 15.0. You can download Mathcad 15.0 M005 from <http://www.ptc.com/support/mathcad.htm>.

Memory Leak in Windows XP

Microsoft Windows Presentation Foundation (WPF) has a major memory leak that may cause your computer to stop responding. Follow these steps to apply a hotfix provided by Microsoft. <http://support.microsoft.com/kb/2425534>.

1. Check whether the memory leak affects Mathcad Prime 1.0.
 - a. Start Mathcad, press Ctrl+Alt+Delete, and select **Task Manager**.
 - b. Open the **Processes** tab and locate `MathcadPrime.exe`.
 - c. In Mathcad, type a single character and keep the pointer on the worksheet.
 - d. In the **Task Manager** window, check whether the number under **Mem Usage** increases consistently. If the number *does not* increase, you do not need to install the hotfix.
2. Fix the memory leak.
 - a. Run the hotfix.

Note: Restart your computer when requested.
 - b. Run Mathcad Prime 1.0 and verify that you do not have a memory leak. Wait at least a minute after you type the character. The memory usage increases for a moment, but returns to its normal value after that.
3. If the memory leak continues, follow these steps:
 - a. Click **Start > Control Panel > Add or Remove Programs**.
 - b. Uninstall Microsoft .NET Framework 3.5 SP1.
 - c. Uninstall Microsoft .NET Framework 3.0 SP2.
 - d. Uninstall Microsoft .NET Framework 2.0.

- e. Reinstall Microsoft .NET 3.5 SP1 from this link:
<http://www.microsoft.com/downloads/details.aspx?FamilyID=ab99342f-5d1a-413d-8319-81da479ab0d7&displaylang=en>.
- f. Check that Mathcad Prime 1.0 runs properly.
- g. Rerun the hotfix.
Note: Restart your computer when requested.
- h. Start Mathcad Prime 1.0 and repeat the memory leak check. Wait at least 1 minute after you type the character in the worksheet. The memory usage may increase for a moment, but it returns to its normal value.
- i. If you still have issues, contact Mathcad Support Center at
<http://www.ptc.com/support/mathcad.htm>.

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