

## Mathcad Prime 1.0 FAQs

### 1. What is the news with this release?

The next generation of Mathcad, Mathcad Prime 1.0 is completely re-designed with an intuitive, task-based interface that promotes usability, enabling engineers to spend more time engineering and less time documenting. It delivers document-centric calculations environment for users to create complex, professional engineering design documents quickly and easily. Mathcad Prime 1.0 allows advanced engineering math exploration with access to over 600 functions so users can display, manipulate, analyze and plot data with full units support throughout the application. Also, Mathcad's integration with other PTC products like Pro/ENGINEER, Windchill and Windchill ProductPoint establishes increased productivity, improved process efficiency and better collaboration between individuals and groups.

### 2. What are some of the new capabilities in the release?

- Task-based interface - promotes usability while also enabling users to learn unfamiliar functions or features quickly and easily.
- Document focused, engineering notebook feel – Document-centric calculation environment enables creation of complex, professional engineering design documents quickly and easily. Documents are easy to read and understand by non-Mathcad users, thus supporting effective communication of designs and engineering knowledge across the enterprise.
- Advanced Math Exploration – Mathcad Prime 1.0 provides an environment to display, manipulate, analyze and plot data with full units support throughout the application.
- Rich library of numeric functions – provides a toolbox of over 600 ready-to-use functions that enable users to tackle any computational problem, ultimately saving time and effort, which results in completing the project sooner.
- Dynamic units support – Users will experience full support for units throughout all calculations created in Mathcad Prime 1.0. This translates into reduced errors and higher accuracy of results, more precise communication between engineers and teams which improves process efficiency in product development.
- Backward compatibility – You can use engineering worksheets saved in previous versions of Mathcad. Mathcad Prime 1.0 can convert most data in older Mathcad worksheets back to version 7.0, minimizing any work to recreate calculations and worksheets. Instant feedback by the converter provides a summary of each worksheet brought into the application and flags any specific compatibility issues where functionality is not matched.



- Intuitive equation editor – WYSIWYG (What You See Is What You Get) equation editor allows users to express problem constraints and solutions in natural math notation.

### 3. How does this release benefit customers?

Key Enhancement	Benefits to End User	Benefits to Organization
Usability and discoverability	<p>New users will spend less time learning how to use Mathcad</p> <p>Existing users will be able to complete more tasks with less effort.</p>	<p>Reduces training time to allow new users to get up and running quickly</p> <p>Enables faster adoption of the software that translates into improved efficiency and increased productivity</p>
Document-centric calculation environment	<p>Reduce the time it takes to develop a design worksheet since it combines math, text and images on one document. User also spends less time editing and formatting the worksheet.</p> <p>Documented worksheets make it easy to share calculations and design work without having to translate programming language or include design intent.</p>	<p>Improves overall productivity since they spend more time creating engineering content rather than spending time formatting the worksheet</p> <p>Enables the use of validated, standard worksheets throughout the organization for better collaboration between colleagues and groups</p>
Advanced Math Exploration	<p>Users can quickly and easily create calculations for testing before committing them to a design.</p> <p>Reduces the amount of re-work to be done in the design process.</p>	<p>Improves overall process efficiency by reducing the amount of potential re-work during product design. This translates into higher-quality products with a faster time-to-market</p>
Robust Numeric Functions Library	<p>Ready-to-use functions that enable users to tackle any computational problem, ultimately saving time and effort, which results in completing the project sooner.</p>	<p>Functions toolbox has ready-to-use standard functions that allow</p>



Dynamic Units Checking	Users will experience full support for units throughout all calculations created in Mathcad Prime 1.0. This translates into reduced errors and more accurate results, which improves process efficiency in product development.	Units are used explicitly throughout the calculations, thus reducing the chances of miscommunicating assumptions about units used. Improves efficiency in collaborative environment by reducing costly errors and making verification and validation more efficient.
Reverse compatibility	Leverage and reuse existing worksheets in previous versions of Mathcad. Be able to collaborate with other colleagues who may be using a previous version of Mathcad.	Organization can leverage and reuse existing body of documents created in older version of Mathcad. Enables organization to use documents created by collaborators using older versions of Mathcad.
WYSIWYG equation editor	Users can express problem constraints and solutions in natural math notation. Users can focus on the calculations and spend less time manipulating the document.	Enables easier adoption of Mathcad as de facto standard. Mathcad documents can be used to communicate engineering content to non-mathcad users.

#### 4. Are there feature/function differences between Mathcad Prime 1.0 and Mathcad 15.0?

Yes. While Mathcad Prime 1.0 is considered the next release of Mathcad, it really is a completely new product that does not yet have complete feature/function parity with Mathcad 15.0. Mathcad Prime 1.0 is a result of overhauling the interface and including new features to meet the expectations of a new generation of users with much higher standards for ease-of-use and software design. Some users will find Mathcad Prime 1.0 compelling to upgrade immediately. Others will find that Mathcad Prime 1.0 does not support certain features (symbolic) critical to their work, and therefore will choose to upgrade later. By Mathcad Prime 3.0 most users should be able to move smoothly over. You can [view the comparison chart](#) to understand which Mathcad version is best for your requirements.

#### 5. Will Mathcad 15.0 still be maintained?

Yes. We will have regularly scheduled maintenance releases for Mathcad 15.0.



## **6. Can I use my old Mathcad worksheets with Mathcad Prime 1.0?**

Yes. Most legacy Mathcad worksheets can be converted to the Mathcad Prime 1.0 format as long as the functions/features used in the old worksheet are compatible with functions/features in Mathcad Prime 1.0. Customers using Mathcad 14.0 or earlier must install Mathcad 15.0 M005 and Mathcad Prime 1.0. A converter will allow you to choose and open worksheets that need to be brought into the Mathcad Prime 1.0 software. The converter will also tell you if any region in a worksheet has failed to convert due to functions/features that are unavailable. In fact customers who upgrade or purchase a new license of Mathcad Prime 1.0 are entitled to both Mathcad 15.0 M005 and Mathcad Prime 1.0.

## **7. Can I use Mathcad 15.0 and Mathcad Prime 1.0 on the same license file?**

Yes. Mathcad 15.0 and Mathcad Prime 1.0 will both operate from the same locked license file. Existing Mathcad 15.0 customers will need to update their license file thru the license wizard. After you launch Mathcad Prime 1.0, any newly generated licenses will enable you to use either or both products.

If the Mathcad licenses are on a license server, as you launch each version of the product, they will each consume its own seat.

## **8. Which Languages are available for Mathcad Prime 1.0?**

English, German, French, Italian, Spanish, Chinese (simplified and traditional), Japanese, Korean and Russian

## **9. Are training courses available for Mathcad Prime 1.0?**

Yes. A class – Essentials for Mathcad Prime 1.0 will be available. Other instructor-led and web-based training courses for Mathcad are available. The most up-to-date list on Mathcad training can be found [here on ptc.com](#).

## **10. How do I get the software?**

Existing Mathcad customers who are on active maintenance can order or download the software on the [customer support site on prc.com](#). To purchase Mathcad please [contact a PTC Sales Representative](#) or go to the PTC Web Store.