



PRODUCT RELEASE

PTC MKS Toolkit 10.5 and PTC X/Server 10.5

PTC announces the releases of:



ptc® mks toolkit®

- PTC MKS Toolkit 10.5 leader in UNIX to Window scripting, connectivity, and application migration

ptc® x/server™

- PTC X/Server 10.5, provides secure, seamless access to character and X-based UNIX applications from the Windows desktop

PTC MKS Toolkit for Developers is an award winning and industry-leading Windows/UNIX interoperability solution that dramatically improves the compatibility between Windows and UNIX environments. It enables developers and system administrators to customize, control, and automate their software development and administrative processes. PTC MKS Toolkit for Developers speeds the software development and administration process and reduces errors by eliminating the time spent on tedious manual tasks.

- Powerful scripting allows you to simplify and automate the execution of repetitive tasks
- New technology integration enables you to easily control and manipulate today's dynamic infrastructures
- Component-based architecture provides you with the ability to easily customize a solution configured to the needs of your organization

PTC MKS Toolkit for Enterprise Developers (formerly NuTCRACKER) is the proven solution for porting robust, mission-critical UNIX applications to Windows. No other product can match our full support for C, C++ and Fortran; for UNIX process management including fork(3), signals, alarms, and threads; for file system and security management; and for curses, X, Motif, and OpenGL. And no other product matches PTC MKS Toolkit's access to Win32 APIs for Windows integration and interoperability.

- Run UNIX applications as native Windows programs taking full advantage of COM, .NET, and other Windows features
- Maintain a single source base across UNIX and Windows saves time and money for years to come
- Cut development time - 70%, 80%, even 90%
- Easily deploy ported applications with built-in packaging wizard and a wide variety of UNIX runtime options.

PTC MKS Toolkit for Enterprise Developers will run on either 32-bit or 64-bit Windows systems. The application ported using PTC MKS Toolkit for Enterprise Developers will install and run on either 32-bit or 64-bit Windows systems. However, on 64-bit Windows systems the application will run as a 32-bit application.

PTC X/Server for Windows provides secure, seamless access to character and X-based UNIX applications from the Windows desktop. This allows you to leverage the benefits of new desktop platforms while connecting to UNIX applications throughout the enterprise. Because PTC X/Server is a Windows X Server containing a rich feature set that is easy to use, users can optimize their personal computing environments while minimizing their overall cost of ownership over time. MKS Toolkit 10.5 and X/Server 10.5 are available to customers with current support or subscription by requesting an upgrade from www.mkssoftware.com/support/upgradeform.asp.

Highlights of MKS Toolkit 10.5

- **Windows Server 2025**

- + Tested through Build 24H2 (22H2 on Windows 10). Windows 11 and Server 2025 are all 64 bit only platforms.

- **ARM64**

- + PTC recognizes that ARM is an evolving platform for Windows – but prefers MKS Toolkit use starts out as native binaries and not x86 or x64 "emulation". MKS Toolkit 10.5 ought to be considered a beta release on Windows 11 and Windows Server 2025 ARM64.

- **OpenSSL updated to version 3.2.3**

- + Command line DLLs have been renamed so as not to interfere with native WIN32 DLLs of the same name on the PATH.

- **OpenSSH updated to version 9.7p1**

- PTC MKS Toolkit 10.5 is no longer tested on Windows 8.1 and Windows Server 2012R2, although x86 testing is still performed on Windows 10, all remaining Windows platforms are 64 bit only. Future releases may no longer deliver a 32 bit release.

PTC MKS Toolkit 10.5 Release notes: www.mkssoftware.com/docs/rn/relnotes_tk105.asp

PTC MKS Toolkit 10.5 Fixed Problems: www.mkssoftware.com/support/105problems.asp

Highlights of X/Server 10.5

- **Windows Server 2025**

- + PTC X/Server 10.5 has been tested and is supported on Windows Server 2025 (x64 and ARM64). Even though servers are probably an unusual platform for a client application, there are ways to use Terminal Services on server for multiple users.

- **OpenSSL updated to version 3.2.3**

- + PTC X/Server uses OpenSSL as part of OpenSSH client for terminal communications and X11 tunneling.

- **OpenSSH updated to version 9.7p1**

- + PTC X/Server uses the OpenSSH client to communicate over terminal emulators and to tunnel X11 back from remote X11 clients.

- **ARM64 native install and binaries – for Windows 11**

- + Unlike the intel versions – version 10.5 of X/Server for Windows 11 (while it should still be considered a beta release) is almost entirely Arm64 native binaries.

PTC X/Server 10.5 Release Notes: www.mkssoftware.com/docs/rn/relnotes_mkxs105.asp

PTC X/Server 10.5 Fixed Problems: www.mkssoftware.com/support/xs105problems.asp



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For the most up-to-date information concerning this release, or for detailed information on new features in PTC MKS Toolkit and PTC X/Server, please visit the [PTC eSupport Portal](#).

To ensure you stay fully informed of new information as it happens, we recommend you subscribe to our news & alerts feed. In the [PTC eSupport Portal](#), navigate to Tools, then Manage Notifications.

Important Note: if you have previously subscribed, we suggest you verify the subscriptions you selected are still active. If you have any questions, log a support case or telephone (800-477-6435).

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