

# PTC MKS Toolkit for Developers

Ease integration of UNIX, Linux and Windows-based computers and improve productivity, flexibility and power when developing or administrating on Microsoft® Windows® platforms

PTC MKS Toolkit makes it easy to migrate or port software from UNIX/Linux systems to Microsoft® Windows® systems. It provides a complete development and interoperability environment with over 2,700 UNIX APIs necessary to run UNIX/Linux applications and over 300 commands and utilities necessary to run scripts from systems. The combination of the PTC MKS Toolkit UNIX APIs and the command-line development environment on Microsoft® Windows® reduces the complexity of a port from UNIX to Windows.

With PTC MKS Toolkit, reduce the immediate need for cross-platform training and leverage the programming expertise of UNIX developers.

## Benefits of MKS Toolkit for Developers:

- Lower Total Cost of Ownership
- Leverage investments in UNIX and Windows
- Native Windows Architecture
- Automate tasks and increase productivity
- Securely access and administer remote systems
- Effortless Control over the Quality of your System Configuration

PTC MKS Toolkit for Developers also accelerates personal performance on the Microsoft® Windows® platform by including Windows specific tools to:

- Unify and automate software builds across UNIX and Windows
- Connect to remote UNIX and Windows machines

- Access or update Windows user and group accounts, permissions, security information, and local or remote registry entries
- Query a database for information to be processed in batch mode

Issues of interoperability also affect development for the Web, as companies blend together UNIX and Windows Web servers. PTC MKS Toolkit for Developers has high performance text utilities and specialized Web development tools that are ideal for maintaining HTML and all aspects of Web sites.

## Lower Total Cost of Ownership

Instead of choosing between Windows and UNIX, most MIS organizations are opting for a mix of the two operating systems, with many larger organizations using Windows as an add-on to their enterprise-wide backroom strategy. In order to decrease the total cost of ownership (TCO) of their business, these companies need a single suite of tools that can help their teams be more productive.

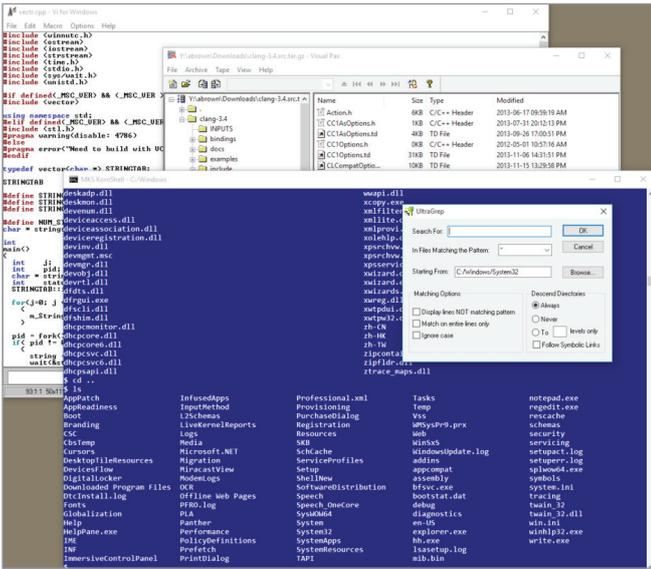


PTC MKS Toolkit allows us to use Windows native file names in all contexts. This tremendously facilitates true “mixed-mode” development environments.”

Nearspace

## Leverage Investments in UNIX and Windows

PTC MKS Toolkit’s numerous UNIX shell environments, including KornShell, bash and CShell, provide the ability to seamlessly port advanced UNIX scripts to the Windows environment.



POSIX compliant file and text manipulation tools like vi, grep, and find simplify the interoperability initiative within an organization. MKS Toolkit for Developers enables IT staff to easily and efficiently establish, maintain and customize their organization’s Windows network and user environment.

## A Native Windows Architecture

The ability to control Windows applications, interact with the latest technologies and improve team and inter-team communication is key to successful application development, saving valuable time and enhancing program capabilities. With full support for multibyte/Unicode characters and 64-bit Windows systems, PTC provides support for the newest, most powerful systems, around the world. PTC MKS Toolkit for Developers is developed on top of the native Windows subsystem allowing all of the utilities to truly

interact with any application or process running in the operating environment. Further, PTC MKS Toolkit is the only solution available on 64-bit Windows and allows you to interact with Microsoft mail, database and Internet/ Intranet technologies.



“The enhanced Vi and Vii features give our people the ability to customize their development environment, the way they like it. It is a comfort to know that we can transfer and manipulate files to and from remote UNIX and Windows systems, with the confidence that our data are secured and-if necessary- encrypted.”

Steven Krauer  
Project Manager, ELSNET the European Network in Human Language Technologies.

## Automate Tasks and Increase Productivity

Scripting is an excellent way to solve many computing tasks. PTC MKS Toolkit for Developers ships with many commands and utilities — awk, sed, Perl, CShell, KornShell, Graphical KornShell, and more— to allow you to quickly and easily create powerful and robust solutions for your organization.

PTC MKS Toolkit scripts can be written as stand alone utilities or combined with other scripts, PTC MKS Toolkit utilities or third party commands and applications help to automate routine tasks and increase productivity. Issues as simple as searching for and moving files to archiving entire file systems, creating mid-size web applications or prototyping large development efforts can be designed and implemented with PTC MKS Toolkit scripts and utilities.

### Securely Access and Administer Remote Systems

By having PTC MKS Toolkit on each of your servers, you have the ability to connect to your network machines from anywhere else on your network or via a dialup line to perform administration tasks. In a mixed UNIX and Windows environment, you will be able to access applications on your UNIX servers, directly from your Windows desktops without ever leaving your desk.

- A telnet server, allowing remote access to the Windows machine
- Secure shell client/service as well as other secure utilities (scp, sftp).
- Remote shell, rlogind and rexecd services, for remote access to Windows systems
- Remote utilities (rsh, rexec, rcp, rlogin) for accessing other UNIX and Windows machines
- Visual SFTP – graphical application to transfer and manipulate files to/from/on remote UNIX/Windows systems

### Effortless Control over the Quality of your System Configuration

A significant number of System Administrators are fluent in the UNIX environment, so utilities that are UNIX-based and follow the UNIX philosophy, yet operate in the Windows environment, can easily leverage the skills of these people on the Windows platform.

Harness the power of UNIX on Windows:

- PTC MKS Toolkit for Developers contains hundreds of authentic UNIX utilities such as df, du, and ls, as well as ksh, csh, and bash shells. Therefore, you can immediately start using your UNIX skills and scripts on Windows
- Administer both Windows and UNIX systems using the Interoperability capabilities such as password synchronization and remote utilities and daemons
- Use UNIX commands to perform file backups across multiple platforms

UNIX system administrators will appreciate a set of familiar commands on Windows and UNIX-style command-line utilities for interacting with Windows features. Windows system administrators will appreciate the increased flexibility of traditional UNIX command-line tools in their Windows environment. Mail administration, file management, registry editing, server management, the powerful vi editor, are only a few of the many features of PTC MKS Toolkit products.

Streamline your administrative workload:

- **Use automated scripts to:**
  - Improve manageability of Windows in large installations by populating and managing registry entries en masse
  - Administer user accounts in batch (e.g., after a reorganization or a merger), instead of one by one
  - Perform repetitive tasks on large numbers of machines
- **Manage Windows environments with standardized tools and scripts that also work in UNIX and Linux environments**
  - Easily perform other common tasks that may be difficult to do using standard Windows facilities
  - Add users and groups
  - Control services

- Perform complex file searches
- Copy permissions
- Do UNIX-compatible backups
- Move data and files between machines
- Remotely administer systems
- Clone a system file tree or document tree
- Copy a standard user setup to a new user account
- Using powerful UNIX commands such as awk, supplemented with our KornShell's dlg dialog building utility, you can get all the information

### PTC MKS Toolkit for Developers Features

- Over 450 UNIX and Windows command-line utilities (full POSIX.2 specification)
  - A wide selection of command environments, (KornShell, CShell, bash, Tclsh) offering greater control, flexibility, and a wider range of functionality than the traditional Windows Command Prompt
  - Visual SFTP Explorer extension allowing drag/drop and other file operations through the graphical Windows interface
  - Access remote UNIX, Linux, and Windows systems with Secure Shell utilities (secsh/secshd, scp, sftp), Remote Shell utilities (rsh/rshd, rexec/rexecd, rlogin/rlogind, rcp), telnetd, and xterm
  - PTC MKS Toolkit utilities and APIs now support multibyte/Unicode characters within file content, file and directory names, pipes, environment variables, console displays, and other areas
  - A powerful scheduling interface as well as a suite of command-line utilities (at, batch, crontab, taskrun, and wts) for automating routine tasks
  - SNMP (Simple Network Management Protocol) services and utilities that allow you to control network devices and their functions
  - Tools and utilities for manipulating HTML content (htdiff, htsplit, htstrip, url, mkurl)
- Commands to pull or push content from local or remote servers, implement Web CGI scripting, and active Perl scripting (web, mkscgi, PScript™)
  - File system handling commands (mount, umount) and symbolic link support
  - Copy permissions between objects and manipulate Win32 file and user security attributes (chacl, lsacl, su)
  - Create and manage users, groups, and permissions on Windows (userinfo, groupinfo, member)
  - Tape and archive commands (tar, pax, cpio, mt), for creating UNIX-compatible backups
  - Compression utilities (zip, unzip, gzip, gunzip) to complement the mkzip and uncompress commands
  - Manipulate device drivers, Windows domains, and file associations (dev, domain, ftype)

### In a Nutshell

PTC MKS Toolkit for Developers dramatically improves the compatibility between Microsoft® Windows® and UNIX environments. PTC MKS Toolkit for Developers provides a comprehensive suite of UNIX and Windows utilities for Windows, enabling developers and system managers to customize, control, and automate software development and administrative processes. Request an evaluation copy of PTC MKS Toolkit for Developers and learn more about the rest of the PTC MKS Toolkit line of products and services by visiting: <http://www.ptc.com/developer-tools/mks-toolkit>

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