



## MKS Toolkit What's new in Version 9.0

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## What's New in MKS Toolkit® 9.0

What's New	What Does It Mean for You?
<b>Multibyte Character Support</b>	<ul style="list-style-type: none"> <li>▪ MKS utilities and APIs support multibyte/Unicode characters within file content, file and directory names, pipes, environment variables, console displays, and other areas.</li> </ul>
<b>Vi/Viv Enhancements</b>	<ul style="list-style-type: none"> <li>▪ <b>Visual Studio Plug-In</b> lets <code>vi</code> be used as the editor within Microsoft Visual Studio.</li> <li>▪ <b>Syntax Highlighting</b> allows users to highlight commands, reserved words, comments, and so forth using customizable rules.</li> <li>▪ <b>Large File Support.</b> Supports files larger than 2 GB in size.</li> </ul>
<b>Updated Perl</b>	<ul style="list-style-type: none"> <li>▪ <b>32-bit and 64-bit Executables.</b> Perl 5.8 includes executables for both 32-bit and 64-bit Windows platforms. The MKS Toolkit installer automatically installs the correct executable for your system.</li> <li>▪ <b>Multithreading and <code>fork()</code>.</b> Perl 5.8 features "interpreter threads" ("<code>ithreads</code>", for short). This is a new multithreading implementation of threads intended to replace earlier implementations, such as "5.005 threads". Also supports the <code>fork()</code> function.</li> <li>▪ <b>Standard HTML-Based Perl Reference Pages.</b> The MKS Toolkit version of Perl 5.8 includes the standard HTML-based Perl reference pages.</li> </ul>
<b>Visual SFTP Enhancements</b>	<ul style="list-style-type: none"> <li>▪ <b>Drag and Drop Directories.</b> Visual SFTP allows users to drag and drop directories in the same manner as regular files.</li> <li>▪ <b>Editable Permissions.</b> Users can edit the permissions for the appropriate files using Visual SFTP.</li> <li>▪ <b>Large File Support.</b> Visual SFTP handles files of any size.</li> <li>▪ <b>Performance Enhancements.</b> Various enhancements have been made to Visual SFTP to improve its performance and stability.</li> </ul>
<b>IPv6 Support</b>	<ul style="list-style-type: none"> <li>▪ <b>Secure Shell and Secure Utilities.</b> The <code>secsh</code> utility and other related utilities have been updated to allow IPv6 addresses.</li> <li>▪ <b>New APIs</b> have been added to MKS Toolkit to help support IPv6 address: <code>freeaddrinfo()</code>; <code>gai_strerror()</code>; <code>getaddrinfo()</code>; <code>getnameinfo()</code></li> <li>▪ <b>Enhanced APIs.</b> In addition to the new APIs listed above, many APIs have been enhanced to allow the use of IPv6 addresses as well as IPv4 addresses.</li> </ul>
<b>New Utilities</b>	<ul style="list-style-type: none"> <li>▪ <b><code>dgstsum</code> and Related Utilities</b> calculates and compares message digests (checksums) for specified files using a variety of digest formats.</li> <li>▪ <b><code>mksrv</code></b> utility allows users to set up any standard script or program to run as a Windows service.</li> <li>▪ <b><code>mktemp</code></b> utility creates a temporary file with a name based upon a provided template.</li> <li>▪ <b><code>pwrmgr</code></b> utility allows users to display defined power schemes and to switch between them.</li> <li>▪ <b><code>shexec</code></b> utility lets you automatically execute any arbitrary application or file, according to its file associations.</li> </ul>



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<b>New Porting APIs</b>	<ul style="list-style-type: none"> <li>▪ The following New APIs supporting SUSv3 and real-time applications have been added:               <ul style="list-style-type: none"> <li>➤ <b>Clocks</b> <ul style="list-style-type: none"> <li>○ <code>clock_getcpuclkid()</code>, <code>clock_getres()</code>, <code>clock_gettime()</code>, <code>clock_nanosleep()</code>, <code>clock_settime()</code>, <code>pthread_getcpuclkid()</code></li> </ul> </li> <li>➤ <b>Timers</b> <ul style="list-style-type: none"> <li>○ <code>timer_create()</code>, <code>timer_delete()</code>, <code>timer_getoverrun()</code>, <code>timer_gettime()</code>, <code>timer_settime()</code></li> </ul> </li> <li>➤ <b>Temporary Files</b> <ul style="list-style-type: none"> <li>○ <code>mkdtemp()</code>, <code>mkstemp()</code>, <code>mkstemp64()</code>, <code>mkstemp64()</code></li> </ul> </li> <li>➤ <b>File I/O</b> <ul style="list-style-type: none"> <li>○ <code>pread()</code>, <code>pread64()</code>, <code>pwrite()</code>, <code>pwrite64()</code></li> </ul> </li> </ul> </li> </ul>
<b>Operating System and Compiler Support</b>	<ul style="list-style-type: none"> <li>▪ <b>Support for Visual Studio.NET 2005.</b> MKS Toolkit for Developers and all higher products have been tested with Beta 2 of Microsoft Visual Studio.NET 2005.</li> <li>▪ <b>Support for 64-bit Windows.</b> MKS Toolkit for Enterprise Developers 64-bit Edition now supports Windows XP x64 Edition and Windows Server 2003 x64 Edition as well as Windows Server 2003 for Itanium processors.</li> <li>▪ <b>Support for Windows Server 2003 Service Pack 1.</b> MKS Toolkit is fully compatible with the latest beta release or release candidate for Microsoft Windows Server 2003 Service Pack 1.</li> </ul>
<b>Miscellaneous Enhancements</b>	<ul style="list-style-type: none"> <li>▪ <b>Tab Completion of Environment Variables.</b> The MKS KornShell allows users to use tab completion with environment variables.</li> <li>▪ <b>Expanded API PATH_MAX.</b> The size of PATH_MAX used by the MKS Toolkit UNIX APIs has been increased to 4096 bytes on Windows NT/2000/XP/2003 systems.</li> <li>▪ <b>man Supports HTML Reference Pages.</b> The <code>man</code> utility can display HTML reference pages using the <code>-H</code> option.</li> </ul>