



**Software  
Productivity  
Research, LLC**

# **SPR KnowledgePLAN<sup>®</sup>**

Release Notes

Version 4.3

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# SPR KnowledgePLAN®

## Version 4.3

### Release Notes

SPR KnowledgePLAN® version 4.3 is an incremental release in the KnowledgePLAN 4 estimation product line. This release contains a number of defect repairs and adjustments to features and model behavior. In addition, version 4.3 includes a number of new “content” artifacts:

- Knowledge Base
- Sizing metric
- Templates and associated Domain

Version 4.3 has been enhanced to support Microsoft® Office Project 2007 Professional, the latest version of that product.

For a detailed discussion of all prior release enhancements, which include Knowledge Base customization and the Task Category Hierarchy, and information about database upgrades from versions earlier than 3.1, please refer to the KnowledgePLAN Release Notes for Version 3.1, 3.2, and 3.3. For a detailed discussion of all 4.0 enhancements, which include a new knowledge base and a Japanese translation, please refer to the KnowledgePLAN Release Notes for version 4.0 and 4.1. These documents are available on request from SPR ([support@spr.com](mailto:support@spr.com)).

Please refer to the README.HTML file (included on the 4.3 CD-ROM media) for specific information on installing 4.3 or upgrading to 4.3 from previous versions.

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## 4.3 Changes and Updates

### Knowledge Base

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The new default Knowledge Base supplied with KnowledgePLAN version 4.3 (Knowledge Base 2007h) contains the calibrated results of real project data collected by SPR LLC and its clients during the past year. These adjustments will in many cases change the results of estimates previously made using Knowledge Base 2006a (or earlier data sets.) Changes are intended to reflect current industry trends and benchmarks. Note that the most dramatic changes that we've observed with this data pertain to projects using Web technology.

### Templates

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KnowledgePLAN version 4.3 includes four newly created Work Breakdown Structure Project Templates:

- SPR Maturity Level 2
- SPR Maturity Level 3
- SPR Maturity Level 4
- SPR Maturity Level 5

These templates are designed to emulate, via attributes, environments common to organizations that have been assessed at varying levels of CMMI. Note that these represent approximations of typical organizational maturity.

### Significant New Features

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A new sizing metric, Use Case Points, has been added to the list of options for Sizing By Metric. Use Case Points (UCP) and the conversion factor to IFPUG Function Points are derived from research conducted by SPR and other organizations.

In addition, the following features and enhancements are included in the 4.3 release:

- Microsoft Project 2007 is fully supported. See bug entry 2.
- The Vista operating system is now officially supported.
- Support for Microsoft Vista, Service Pack 1
- The Windows 7 operating system is now officially supported.
- SPR KnowledgePLAN now uses Crystal Reports XI.
- KnowledgePLAN can now import metric data from the Total Metrics SCOPE™ product.
- The "New Project Wizard – Sizing Summary" dialog has been re-arranged for optimal usage
- If "Use selected Languages in all Code Types" is checked in the "Source Code Languages" dialog, the percent entry for all the other code types is set.

- The “New Project Wizard – Base Calculation” dialog has been changed to give the user more flexibility in calculating the “Base” code size. The user now has 3 options:
- KnowledgePLAN can approximate it and deposit it in the “New Project Wizard – Sizing Summary” dialog.
- A software product can be used to derive it and KnowledgePLAN will deposit it in the “New Project Wizard – Sizing Summary” dialog.
- The user can simply enter it in the “New Project Wizard – Sizing Summary” dialog.
- A button has been added to the Complexity dialog that allows the user to copy the “Base” code values to “New” and “Changed.”

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## Bug Fixes

If an error was generated while deleting a Project, Domain, Template, or Knowledge Base, that error continued to be reported with each subsequent delete.

Microsoft Project 2007 no longer supports writing MPD files. Because of this, the only thing that could be done from KP is to move a new project to MS Project 2007 because an MPX file is used in this situation. However, even the MPX file causes a minor problem because of what appears to be a MS Project 2007 bug. During the process of moving a new project to MS Project 2007, an error message appears for each resource assignment row (75) stating that there is an error in columns 18 and 19. The problem is that columns 18 and 19 do not exist in the MPX format for resource assignments. Answering No when the first dialog comes up stops all the other occurrences from happening and the project is loaded into MS Project 2007 correctly. The overall problem has been fixed by using the XML format when Project 2007 is in use.

There was a circular dependency between maintenance, review, and test executable task categories and their respective repair task categories. This resulted in the reference values of a knowledge base changing each time an estimate is performed even if no other changes were made.

Tasks that are assigned to user created task categories that are “like” SPR task categories “Maintenance defect rework preparation”, “Maintenance defect rework execution”, or “System deployment” are estimated incorrectly.

The Adjust Languages dialog hung when changing the “New” code size in the Project Sizing Wizard – Sizing Summary dialog to 0.

The information for tasks that the estimator determined were included but had zero function points and therefore were not estimated was not set to zero. This has been changed and tasks in this category have their information set to zero.

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## Supported Operating Systems

Version 4.3 of KnowledgePLAN supports Windows XP and Windows Vista. Windows 7 might be supported. Windows 2003, Windows 2008, Windows 95, Windows 2000, Windows 98, Windows ME, and Windows NT are no longer supported. .NET Framework 2.0 or greater must be installed. Windows Vista includes .NET Framework 3.5.

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## SQLServer Support

Version 4.3 supports the use of SQLServer as the secondary database in XP but does not support SQLServer as a secondary database in Vista (This restriction might be eliminated).

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## Upgrading KnowledgePLAN

The setup process for version 4.3 of KnowledgePLAN will only update version 4.2. If you have an older version of KnowledgePLAN, contact SPR support.

If you are running version 4.2 of KnowledgePLAN on XP and want to upgrade to 4.3 but on Vista, do as follows. Install version 4.2 on your Vista machine but do not run it. Copy working.mdb and secondry.mdb from your XP setup of KnowledgePLAN to your Vista setup of KnowledgePLAN overriding the copies in Vista. Install version 4.3 of KnowledgePLAN.

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## Help

All Microsoft operating systems before Vista included WinHlp32.exe which is Microsoft's help file viewer. Since KnowledgePLAN uses .hlp files for its help pages, it needs WinHlp32.exe. Unfortunately, Vista does not include WinHlp32.exe. However, it can be downloaded as follows:

1. Go to web site <http://support.microsoft.com/kb/917607>.
2. Go to the section titled "Download WinHlp32.exe for Windows Vista".
3. Go to the indicated web site.
4. Follow the instructions for downloading WinHlp32.exe. Unless you are running a 64 bit operating system, download the x86 version.

When accessing help from within KnowledgePLAN, you will receive the non-fatal message "There was a problem running the macro (1037)" unless you enable certain macros that are needed by WinHlp32.exe. If you choose to enable the macros, do the following:

1. Go to web site <http://support.microsoft.com/kb/917607>.
2. Go to the section titled "Known issues that may occur after you install the WinHlp32.exe update."
3. Within this section, go to the section titled "Macros are disabled."

4. Click on the text that says “Registry entries and group policies for network administrators.”
5. As indicated, there is more than one way to enable the macros. You should probably consult your network administrator. The easiest way is to change the registry as follows:
  - a. Click the Start button and then select “All Programs”
  - b. Select “Accessories” and choose “Run”
  - c. Type in “regedit” and click the OK button
  - d. Expand the HKEY\_LOCAL\_MACHINE node in the left pane
  - e. Expand the “Software” node under the HKEY\_LOCAL\_MACHINE node
  - f. Expand the “Microsoft” node under the “Software” node
  - g. Right click on the “Microsoft” node and choose “New”
  - h. A menu will appear, choose “Key”
  - i. You will get a new node under Microsoft labeled “New Key #1”
  - j. Right click on the “New Key #1” node and choose “Rename”
  - k. Rename the “New Key #1” node to “WinHelp”
  - l. Right click on the “WinHelp” node and choose “New”
  - m. A menu will appear, choose “DWORD (32-bit) Value”
  - n. In the right pane, you will see a new entry labeled “New Value #1”
  - o. Right click on “New Value #1” entry and choose “Rename”
  - p. Rename the “New Value #1” entry to “AllowProgrammaticMacros”
  - q. Right click on the “AllowProgrammaticMacros” entry and choose “Modify...”
  - r. Change the value from 0 (disables macros) to 1 (enables macros).
  - s. Exit regedit.