



DevPartner 10.6.1

A decorative graphic consisting of several overlapping, wavy blue lines that create a sense of motion and depth, positioned in the lower half of the page.

Installation Guide

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Table of Contents

Preface	5
Who Should Read This Manual	5
Conventions Used In This Manual	5
For More Information	5
Chapter 1 • DevPartner Studio Installation	7
System Requirements	7
Supported Environments	8
Obtaining Your Micro Focus Product License	8
DevPartner Studio License Considerations	9
Installation and Remote Data Collection	10
DevPartner Studio Triggering of Firewall Alarms	10
Installable Features	11
DevPartner Studio Professional Edition	11
DevPartner for Visual C++ BoundsChecker Suite	11
BoundsChecker Standalone	11
Runtime Analysis	11
Performance Profiler	11
Side-by-Side Visual Studio Operation	11
Installation	12
Troubleshooting Your DevPartner Studio Installation	13
Migrating DevPartner Code Review Custom Rules and User Preferences	14
Prior to the Migration	14
Migrating the Rules Database	15
Migrating the Preferences Database	15
Chapter 2 • Maintaining the Installation	17
Accessing Maintenance Mode	17
Modifying an Installation	17
Repairing an Installation	18
Removing an Installation	18
Index	19

Preface

This manual describes how to install Micro Focus® DevPartner Studio® software.

Who Should Read This Manual

This manual is intended for those installing DevPartner Studio in either a single-seat or concurrent use environment.

This guide does not contain usage information. You can find that information in the online help facility and the *DevPartner Studio User's Guide*.

This guide assumes that you are familiar with the Microsoft Windows interface and the installation of Windows software. If this is not the case, familiarize yourself with the documentation for Microsoft Windows before reading this guide.

Conventions Used In This Manual

This book uses the following conventions to present information.

- ◆ Screen commands and menu names appear in **bold typeface**. For example:

Choose **Item Browser** from the **Tools** menu.

- ◆ File names appear in **monospace typeface**. For example:

The DevPartner Studio *User's Guide* (**Understanding DevPartner.pdf**) describes...

- ◆ Variables within computer commands and file names (for which you must supply values appropriate for your installation) appear in *italic monospace type*. For example:

Enter **`http://servername/cgi-win/itemview.dll`** in the **Destination** field.

For More Information

You can use the feature-level online help to learn more about DevPartner Studio functions and procedures.

Also, use the following resources to learn more about DevPartner components. Manuals in Adobe Acrobat (.pdf) format and the DevPartner Studio Release Notes are available through the Micro Focus SupportLine web site product page for DevPartner Studio at <http://support-line.microfocus.com/>, the InfoCenter option in the **Start > Programs > Micro Focus > DevPartner Studio** menu, and are also included on your DevPartner Studio DVD.

- ◆ The DevPartner Studio *Release Notes* contains a list of known issues and technical notes for DevPartner Studio. The Release Notes document is available from the DevPartner Studio installation setup and the DevPartner Studio InfoCenter.
- ◆ The *DevPartner Studio User's Guide* contains details about using DevPartner.
- ◆ The *DevPartner Studio Quick Reference* and *DPVC Quick Reference* provide at-a-glance summaries of DevPartner Studio and DevPartner for Visual C++ BoundsChecker Suite features accompanied by quick-start advice.
- ◆ The *DevPartner Advanced Error Detection Techniques* manual provides concepts and procedures to help you understand the use of Micro Focus DevPartner Error Detection software.
- ◆ The *Micro Focus Licensing System Administration* Utility online help describes DevPartner Studio licensing.

Chapter 1

DevPartner Studio Installation

This chapter describes system requirements and installation information for Micro Focus® DevPartner Studio.

System Requirements

All editions of DevPartner Studio 10.6.1 require the following minimum configuration:

Table 1-1. Hardware

Processor	1.0 GHz Pentium III processor (32-bit) or higher 2.0 GHz Intel EM64T or AMDx64 processor (64-bit) or higher
Memory	512 MB (32-bit) 1 GB (64-bit)
Available Disk Space	2 GB
Display	1024x768, 16-bit color
Other	DVD drive

Table 1-2. Operating Systems

Operating System	Editions	Browser and IIS
Windows 7 (32-bit and 64-bit)	Professional, Enterprise, Ultimate	Internet Explorer (IE) 8.0 (64-bit) IE 7.0 (32-bit) IIS 7.5
Windows Server 2008 R2	Standard, Enterprise	IE 8.0 IIS 7.5
Windows Server 2008 (SP2) (32-bit and 64-bit)	Standard, Enterprise	IE 7.0 + IIS 7.0, 7.5
Windows Vista (SP1 or SP2) (32-bit and 64-bit)	Business, Enterprise, Ultimate	IE 7.0 + IIS 7.0, 7.5
Windows XP 32-bit (SP3) Windows XP 64-bit (SP2)	Professional	IE 6.0 + IIS 6.x, 7.0, 7.5

Table 1-2. Operating Systems

Operating System	Editions	Browser and IIS
Windows Server 2003 R2 (32-bit and 64-bit)	Standard, Enterprise	IE 6.0 + IIS 6.x, 7.0, 7.5
Windows Server 2003 (SP1 or SP2) (32-bit and 64-bit)	Standard, Enterprise	IE 6.0 + IIS 6.x, 7.0, 7.5

Supported Environments

DevPartner Studio supports the released version of the following environments.

Note: For a comprehensive list of supported languages and project types, refer to Appendix B of the *DevPartner Studio User's Guide*.

Table 1-3. Visual Studio Integration

Version	Editions	.NET Framework
Visual Studio 2010	Ultimate Edition, Premium Edition, Professional Edition, Test Professional Edition. The Ultimate, Premium, and Test Professional Editions include the Team Foundation Server.	.NET Framework 4.0 (Compact Framework is not supported)
Visual Studio 2008	Professional Edition, Team Edition for Software Architects, Team Edition for Software Developers, Team Edition for Software Testers, Team Suite	.NET Framework 3.5 (Compact Framework is not supported)
Visual Studio 2005 (Base and SP1)	Professional Edition, Team Edition for Software Architects, Team Edition for Software Developers, Team Edition for Software Testers, Team Suite (64-bit development is not supported)	.NET Framework 2.0 (Base and SP1) and 3.0* (Compact Framework is not supported)
Visual Studio Team Foundation Server	n/a	n/a

For information on features installed with each environment, see [“Installable Features”](#) on page 11. For a detailed list of all supported Visual Studio technologies, refer to the *DevPartner Studio User's Guide*.

Obtaining Your Micro Focus Product License

DevPartner Studio requires an authorization code supplied by Micro Focus for licensed execution beyond the evaluation period. Micro Focus provides an authorization code for each purchased DevPartner Studio license.

To obtain license authorization codes, you need the serial number(s) from your Electronic Product Delivery email, along with the following host information.

Named User (node locked) licenses: Collect the Host Name and Host ID (physical address) from each system to be licensed.

Concurrent (floating) licenses: Collect the Hostname and Host ID (physical address) from one system on which the License Manager will be installed.

Collecting Host Information

- 1 Open a Windows Command prompt by clicking **Start > Programs > Accessories > Command Prompt**.
- 2 In the Command prompt, type `ipconfig /all` and press **Enter**.

IPconfig returns a list of values that includes the Host Name and Physical Address.

Obtaining the DevPartner Studio Product License Key

If downloading your product electronically, an email is sent that contains the product authorization code. If purchasing media, the authorization code and/or product serial number is included in the media package. The authorization code can also be obtained with only the product serial number on the DevPartner licensing page in SupportLine (<http://supportline.microfocus.com/>).

To use the supplied authorization code, start the Micro Focus Licensing System Administration utility from the Windows **Start** menu (**Programs > Micro Focus License Manager > License Management System**). Complete information about managing licenses can be found in the *Micro Focus Licensing System Administration* online help.

If your authorization code has not arrived by the time you would like to install DevPartner Studio, you purchased DevPartner Studio from a reseller, or you currently have other Micro Focus products licensed through the the Micro Focus Licensing System Administration utility, please contact Product License Management through SupportLine Customer Care or by contacting ASQ License Management.

A video is also available on SupportLine (<http://supportline.microfocus.com/licensing/LicensingStudio6.0LowExternal.wmv>) that shows how to automatically and manually authorize a Micro Focus product. Note that this video is not specific to DevPartner licensing, but can be applied to DevPartner.

DevPartner Studio License Considerations

All DevPartner Studio products use the Micro Focus Licensing System utility to manage software licenses. For complete information on licensing, refer to the *Micro Focus Licensing System Administration utility* online help.

You should be aware of the following considerations regarding your DevPartner Studio software license:

- ◆ DevPartner Studio can run with one of three types of permanent license:
 - ◇ A locally-installed license, called a node-locked (**single-seat**) license (**does not require a license server installation**).
 - ◇ A **concurrent** license stored within a License Manager database on a network server.
 - ◇ A **borrowed concurrent** license running on a computer disconnected from a network.
- ◆ DevPartner Studio can run with an evaluation license. The evaluation period begins when any DevPartner Studio feature is used.

Note: System Comparison operates under your DevPartner Studio license. Using the System Comparison user interface triggers the beginning of the evaluation period, regardless of whether the rest of the DevPartner Studio features have been installed. Starting and using only the System Comparison service, however, does not consume a license and therefore does not trigger the beginning of the evaluation period.

- ◆ DevPartner Studio supports a 30-minute idle session license timeout policy for concurrent licenses. If a concurrent license is being used for an Integrated Development Environment-hosted DevPartner Studio product, the license is released and returned to the license pool if no DevPartner Studio features have been used for 30 minutes (e.g., no analysis sessions active, no session files open).
- ◆ Running DevPartner Studio over a Windows Terminal Services connection uses one concurrent license per user. Node-locked licenses do not support use over a Terminal Services connection.
- ◆ Running DevPartner Studio over a Windows Remote Desktop connection uses one concurrent license or a node-locked license.
- ◆ If you purchased DevPartner Studio as part of certain product bundles, simultaneous use of all products in the bundle requires only one license.

Installation and Remote Data Collection

If you run components of your applications on remote systems, you can collect performance, coverage, and memory data from the remote machines and view that data on the user/client machine where you have installed DevPartner Studio. No additional licenses are needed to collect remote data.

DevPartner Studio Triggering of Firewall Alarms

To collect session data from remote machines, the DevPartner Studio software connects to a previously installed service whenever DevPartner Studio runs, either within Visual Studio or via **DPAnalysis.exe**. This service listens for interprocess communication traffic at the internet address 0.0.0.0 port 18441. This service connection may trigger some firewall alarms. You can configure your firewall to trust this address to discontinue these alarms. If your firewall is set to maximum security levels, it may prevent DevPartner Studio remote data collection. Reconfigure your firewall to enable data exchange at the address 0.0.0.0 port 18441.

Installable Features

DevPartner Studio Professional Edition

Includes the entire suite of DevPartner Studio products; Error Detection, Code Review, Performance Analysis, Coverage Analysis, Performance Expert, Memory Analysis, and System Comparison.

DevPartner for Visual C++ BoundsChecker Suite

Includes Error Detection: Performance Analysis, Coverage Analysis, and System Comparison. Increase productivity and quickly build powerful, high performance Windows applications.

BoundsChecker Standalone

Includes Error Detection. Unmatched detailed error analysis specifically for unmanaged solutions.

Runtime Analysis

Includes Performance Analysis, Coverage Analysis, Performance Expert, and Memory Analysis. Collect and analyze source code to efficiently discover untested code, and optimize application performance and use of resources.

Performance Profiler

Includes Performance Analysis and Performance Expert. Deeper managed code application profiling to fine tune applications and locate and analyze even the hardest-to-find execution issues.

Side-by-Side Visual Studio Operation

The DevPartner Studio installation program installs DevPartner Studio into the IDS of each supported release of Visual Studio found on a target computer. This lets you take advantage of the ability to develop code simultaneously in any supported Visual Studio environment.

If you install a supported release of Visual Studio after installing DevPartner Studio, you can modify the DevPartner Studio installation at any time. See [Chapter 2, “Maintaining the Installation”](#) for more information about modifying a DevPartner Studio installation.

Installation

This section presents pre-installation information and describes the DevPartner Studio installation procedure.

Before Installation

Before installing DevPartner Studio, note the following:

- ◆ If you use DevPartner Studio with Visual Studio 2005 or Visual Studio 2008 Team System, install Visual Studio Team Explorer before installing DevPartner Studio.
- ◆ Internet Explorer and the Microsoft Script Debugger are required by DevPartner Studio. If supported versions of these products are not detected during installation, DevPartner Studio displays a message with a link to more information.

Note: If you are upgrading from a previous version of DevPartner Studio, refer to [“Migrating DevPartner Code Review Custom Rules and User Preferences”](#) on page 14 *before* uninstalling your previous version of DevPartner Studio.

To Install DevPartner Studio

- 1 If you are running a previous version of DevPartner Studio, uninstall your previous version and restart your computer. (If you would like to retain your existing code review databases, refer to [“Migrating DevPartner Code Review Custom Rules and User Preferences”](#) on page 14 before uninstalling DevPartner Studio.)
- 2 Log in to an account with Windows administrator (‘admin’) privileges. You must be logged in with Windows administrator privileges to install DevPartner Studio.
- 3 Disable your virus protection software.

The DevPartner Studio installer uses scripts that might trigger warnings from virus protection software. Remember to re-enable virus protection after you install DevPartner Studio.

Note: Systems with the Data Execution Prevention (DEP) setting configured as /NoExecute=Always On and the CPU’s Execute Disable bit enabled might prevent DevPartner Studio from installing. See [article number 875352 in the Microsoft Knowledge Base](#) for a detailed description of the Data Execution Prevention feature.

If this setting is changed back to AlwaysOn after installation it causes DevPartner Studio to fail loading into Visual Studio.

- 4 Insert the DevPartner Studio DVD to start the installation and select the product to be installed. If installing DevPartner Studio Professional Edition, you can install DevPartner Studio or DevPartner System Comparison.
- 5 Click **Next**. A series of screens guides you through the installation process.

Note: Windows installer prohibits installation to virtual drives created using the **subst** command. Only install DevPartner Studio to an actual hard drive location.

The DevPartner Studio installer detects supported releases of Visual Studio and by default installs all components compatible with all environments. To prevent DevPartner Studio components from being installed, use the Component Selection screen to select the components *not* to be installed.

The installer prompts you to install a new code review rules database or use an existing rules database. This option is useful when you are sharing a rules database. If you choose to use a rules database built with a previous version of DevPartner Studio, see [“Migrating DevPartner Code Review Custom Rules and User Preferences”](#) on page 14.

- 6 After a DevPartner Studio Professional Edition installation, you are prompted to install DevPartner System Comparison, which allows you to identify differences between computer system or differences between different configurations of the same computer.

Installation for System Comparison starts by default. If you do not want to install it, you can cancel the installation.

If an updated version of System Comparison already exists on the target computer, the installation does not occur.

Troubleshooting Your DevPartner Studio Installation

DevPartner Studio captures a Microsoft Installer (MSI) log of details about the DevPartner Studio installation. You can examine this log to help diagnose installation problems, or provide this log to a customer support engineer should you need to contact Micro Focus Customer Care for support.

Depending on the DevPartner Studio installation, the file is named **DPS_{xx}install.log** or **DPVC_{xx}install.log** (*xx* represents the release number) and is in the following location:

On Windows XP and Windows Server 2003:

C:\Documents and Settings*user*\Local Settings\Temp

On other supported operating systems:

C:\Users*user*\AppData\Local\Temp

In addition to the MSI log, compile the following information:

- ◆ What software and version are you installing?
- ◆ What is your operating system and service pack?
- ◆ What previous version of the DevPartner Studio software do you have installed?
- ◆ Did you have any problems removing the previous version?
- ◆ Indicate if you submit an MSI log as an attachment.
- ◆ What error message did you receive during the install?
- ◆ Was the installation from an account with full administrative privileges?
- ◆ Was the installation done locally or remotely? If done remotely what software was used?
- ◆ Did you disable your anti-virus software before the installation?
- ◆ Is your DEP setting configured as `/NoExecute=OptIn`?

Migrating DevPartner Code Review Custom Rules and User Preferences

If you have a previous installation of DevPartner Studio and you have customized Code Review rules and preferences databases, you should migrate your database files to the current release of DevPartner Studio. This ensures that your changes are not lost during the upgrade.

DevPartner Studio provides two utilities that automate this migration process:

- ◆ **crupdaterules.exe**: Migrates previous release rules into the current release rules database.
- ◆ **crupdateprefs.exe**: Migrates previous release user settings into the current release preferences database.

Using these utilities migrates your customized rules and preferences into the new rules and preferences databases.

Prior to the Migration

- 1 Copy the existing **CRRules.dpmdb** and **CRPrefs.dpmdb** files to another location for safe-keeping before you uninstall DevPartner Studio.

By default, database files created with previous releases of DevPartner Studio are located in **\Program Files\Micro Focus\DevPartner Studio\CodeReview**.

Note: For installs on 64-bit versions of Windows, DevPartner Studio is located at: **\Program Files (x86)\Micro Focus\DevPartner Studio\CodeReview**.

The DevPartner Studio uninstall process makes a backup copy of your rules and preferences databases. If you have already uninstalled DevPartner Studio without making a backup copy of your databases, you can use the automatically created backup files found in the DevPartner Studio installation folder in **\Code Review\Backup**.

- 2 Uninstall the previous version of DevPartner Studio.
- 3 Install DevPartner Studio 10.6.1. On the installation screen that prompts for creating a new rules database or using an existing one, select the new rules database option. This updates the new database after the installation.

The new databases are placed in the following location:

On Windows XP and Windows Server 2003 systems:

C:\Documents and Settings\All Users\Shared Documents\Code Review

On Windows 7, Windows Vista, Windows Server 2008, and Windows Server 2008 R2 systems:

C:\Users\Public\Public Documents\Code Review

- 4 Copy the new **CRRules.dpmdb** and **CRPrefs.dpmdb** files created by the DevPartner Studio 10.6.1 installation to a location other than the one used in step 1, so you do not overwrite the original rules and preferences database files.

Proceed to “[Migrating the Rules Database](#)” and/or “[Migrating the Preferences Database](#)” to perform the desired migration.

Migrating the Rules Database

- 1 Start a DOS session from the console window.
- 2 At the DOS prompt, change to the folder where you installed DevPartner Studio. By default, DevPartner Studio is installed in **\Program Files\Micro Focus\DevPartner Studio\CodeReview**. This folder contains the migration utility.

For installs on 64-bit versions of Windows, DevPartner Studio is located at: **\Program Files (x86)\Micro Focus\DevPartner Studio\CodeReview**.

- 3 From that folder, enter the command `crupdaterules` followed by the path to the prior version of the rules database. For example:

```
crupdaterules C:\MyOldRulesDb\CRRules.dpmdb
```

The command string you use must point to the location of the rules database file being migrated and should be entered as a single line.

Your existing rules migrate into the new DevPartner Studio code review rules database.

Migrating the Preferences Database

- 1 Start a DOS session from the console window.
- 2 At the DOS prompt, change to the folder where you installed DevPartner Studio. By default, DevPartner Studio is installed in **\Program Files\Micro Focus\DevPartner Studio\CodeReview**. This folder contains the migration utility.

For installs on 64-bit versions of Windows, DevPartner Studio is located at: **\Program Files (x86)\Micro Focus\DevPartner Studio\CodeReview**.

- 3 From that folder, enter the command `crupdateprefs`. followed by the path to the prior version of the preferences database. For example:

```
crupdateprefs "C:\MyOldPrefsDb\CRPrefs.dpmdb"
```

Note that the command string you use must point to the location of the preferences database file being migrated.

Your existing preferences migrate into the new DevPartner Studio code review preferences database.

Chapter 2

Maintaining the Installation

Accessing Maintenance Mode

Required: Micro Focus recommends that you exit all non-essential Windows programs before running this setup program. Some Windows programs may interfere with the installation process.

To access Maintenance Mode from the Windows Control Panel:

- 1 Click the Windows **Start** button and choose **Programs > Micro Focus > DevPartner Studio > Modify Install**. The DevPartner Studio installation wizard appears.

Note: Micro Focus recommends accessing the DevPartner Studio installation wizard only from the Windows **Start** button.

- 2 Click **Next**. The **Program Maintenance** page appears.

From this page of the wizard, you can access the three maintenance mode options: **Modify**, **Repair**, and **Remove**. For more information about these options, see the appropriate section in this chapter.

Modifying an Installation

Rather than uninstall and re-install the product, you can modify a DevPartner Studio installation by adding or removing an optional component.

Modifying Products With Optional Components

- 1 Access maintenance mode using the method described at the beginning of this chapter.
- 2 Select the **Modify** option and click **Next**. The Component Selection page appears allowing you to add or remove components.
- 3 Click the icon next to each feature and select the appropriate options to do one of the following:

Tip: Descriptions of each feature display in the Component Selection page when selected. You can also click the Help button on the page for more information.

- ◇ Install the feature to the local hard drive
- ◇ Install the feature and all subfeatures to the local hard drive
- ◇ Make the feature unavailable for install. This option removes any previously installed components.

- 4 Click **Next**. The Ready to Modify the Program page appears.
- 5 Click **Install** to begin the installation. Setup adds or removes the appropriate components.
After modifying, you may be prompted to restart your computer. If you are prompted to restart your computer, you can choose to restart it now (recommended) or to restart it later.
- 6 Click **Finish** to complete the modification.

Repairing an Installation

There may be times when you need to repair a damaged DevPartner Studio installation. This could be due to an inadvertent deletion or corruption of the program. To repair a DevPartner Studio installation:

- 1 Access maintenance mode using the method described in “Accessing Maintenance Mode” at the beginning of this chapter.
- 2 Select the **Repair** option and click **Next**. The Ready to Repair the Program page appears.
- 3 Click **Install** to begin the installation. Setup adds or removes the appropriate components.
- 4 After repairing, you may be prompted to restart your computer. If you are prompted to restart the computer, you can choose to restart it now (recommended) or to restart it later.
- 5 Click **Finish** to complete the maintenance.

Removing an Installation

If you want to remove DevPartner Studio installation from your computer, follow these steps:

- 1 Access maintenance mode using the method described at the beginning of this chapter.
- 2 Select the **Remove** option. Click **Next**. The **Remove the Program** page appears.
- 3 Select the check box to save a backup copy of the DevPartner Code Review rules database.
- 4 Click **Remove**. Setup removes the DevPartner Studio installation.
- 5 After uninstalling, you may be prompted to restart your computer. If you are prompted to restart your computer, you may choose to restart it now (recommended) or to restart it later.
- 6 Click **Finish** to complete the maintenance.

Index

A

- access methods
 - maintenance 17
- administrator privilege 12

C

- crupdateprefs 14, 15
- crupdaterules 14
- customer care 9

D

- data execution prevention setting 12
- DEP setting 12
- DevPartner
 - migrate custom rules 15
 - migrate custom user preferences 15
 - upgrading 12

E

- evaluation license 10

I

- installing
 - modify product components 17
 - repairing a product installation 18

L

- license
 - evaluation 10
 - timeout policy 10
- license file

- getting customer support 9
- installing 9

M

- Maintaining the Installation 17
- maintenance
 - access methods 17
 - modify 17
 - remove 18
 - repair 18
- migrate code review preferences 15
- migrating code review rules 15
- modify
 - maintenance 17

P

- previous version of DevPartner 12

R

- remove
 - maintenance 18
- repair
 - maintenance 18
- requirements 7

S

- scripts, virus protection interference 12
- support 9
- system comparison utility 13
- system requirements 7

Index

T

timeout of license [10](#)

V

Visual Studio, installed after DevPartner [11](#)