DATA SHEET

DEVPARTNER® STUDIO PROFESSIONAL EDITION

The premier code quality solution for Microsoft Visual Studio and Team System environments

Business Challenge

Microsoft Visual Studio 2008 presents a new opportunity for development organizations to make code quality a priority. However, the number and permutations of similar-sounding Visual Studio products, editions and features can become somewhat complex. Further, many developers are asking if Visual Studio alone is an adequate solution to meet all of their code quality needs.

This document will help you decide the right level of code quality features appropriate for your development organization. It charts the code quality capabilities found in Visual Studio and highlights the enhanced capabilities that DevPartner adds to Visual Studio environments.

DevPartner Studio

Award-winning DevPartner Studio is the industry standard for building code quality into Windows applications during the development process. DevPartner Studio enhances Microsoft Visual Studio Professional Edition and Visual Studio Team Editions with seamlessly integrated code quality features that help Windows development teams improve software quality, adopt coding standards and best practices, and maximize developer productivity. Consider the following scenarios to determine the most suitable approach for your organization.

DevPartner Studio + Visual Studio 2008 Professional Edition

Using DevPartner Studio with Visual Studio Professional Edition is the highest-value scenario for most development organizations. The full complement of powerful DevPartner Studio features (see matrix) is accessible within the Visual Studio IDE, and can also be integrated with build servers and automated testing platforms to create a continuous integrated testing environment. Integrated reporting features produce browser-based code quality reports that keep development and QA managers informed about important code quality metrics on a daily basis. This scenario has the lowest licensing and annual maintenance cost per developer, and represents the best price-performance solution. DevPartner support for legacy Visual Studio .NET and Visual C/C++ applications is included at no additional cost.

DevPartner Studio + Visual Studio Team System 2008 Development Edition

DevPartner Studio enhances this Team System scenario with the addition of more in-depth diagnostics, analysis and expert advice (see matrix), plus browser-based code quality reporting, distributed multi-tier analysis capabilities, native/.NET interop analysis and legacy application support. This scenario provides the most flexibility for integrating with Microsoft or third-party development and QA infrastructures. It is ideal for organizations building .NET applications with Visual Studio 2008 while maintaining a complex portfolio of applications built with legacy Windows and .NET technologies using older Visual Studio environments.

DevPartner Studio + Visual Studio Team System 2008 Development Edition + Team Foundation Server

DevPartner Studio enhances this Team System scenario with the addition of more in-depth diagnostics, analysis and expert advice (see matrix), browser-based code quality reporting, distributed multi-tier analysis capabilities, native/.NET interop analysis and legacy application support. DevPartner Studio further enhances the productivity and collaboration between QA analysts and developers with automatically pre-populated Team System work items. Defect reports generated and pre-populated by DevPartner Studio contain detailed method- and line-level diagnostic information, saving valuable development time and lowering the cost of fixing defects. This scenario is ideal for organizations seeking to improve team collaboration with Visual Studio 2008 Team System while maintaining a complex portfolio of applications built with legacy Windows and .NET technologies using older Visual Studio environments.

	DevPartner Studio Professional Edition	Visual Studio 2008 Team System Development Edition
Environment		
Windows forms and web application projects	✓	✓
Visual Studio 2008 integration & code analysis features	✓	◊
Team Foundation Server integration	✓	✓
Distributed application analysis	✓	
Browser-based code quality reports	✓	
System comparison and configuration differencing	✓	
Visual Studio 2005 integration & code analysis features	✓	
Visual Studio .NET 2003 integration & code analysis features	✓	
Visual Studio 6 integration & code analysis features	✓	
Legacy Visual C/C++ and Visual Basic code analysis	✓	
Concurrent licensing with license borrowing	✓	
Centralized license administration	✓	
.NET Application Analysis		
Static source code analysis with ASP.NET security scanning	◊	◊
Coding standards, best practices and metrics	✓	✓
Customizable rule sets—individual and team	✓	
Rule categories, severity properties, filtering	✓	
Error correction advice with code examples	✓	◊
CPU performance analysis	✓	◊
Performance session call graphs	✓	
Performance metrics—method level	✓	✓
Performance metrics—line of code level	✓	
Application wait time analysis	✓	
Disk I/O performance analysis	✓	
Network I/O performance analysis	✓	
Distributed application profiling	✓	
Correlated multi-tier analysis session results	✓	✓
Memory usage analysis—method level	✓	
Memory usage analysis—line-of-code level	✓	
Memory consumption—runtime visualization	✓	
Memory analysis session results graphing	✓	
Memory object leak detection	✓	
Code coverage analysis with stability and volatility trending	✓	◊
Visual Studio 2005 and .NET 2003 support	✓	
.NET Framework 1.1 application analysis	✓	
Unit testing	◊	✓

	DevPartner Studio Professional Edition	Visual Studio 2008 Team System Development Edition
Native Application Analysis (unmanaged code)		
C/C++ static analysis		✓
Mixed-mode runtime error detection and analysis	✓	
Win32 heap analysis	✓	◊
Memory leak detection	✓	
Resource leak detection	✓	
Win32 API validation	✓	
Thread deadlock detection and prediction	✓	
Buffer overwrite checks at runtime	✓	
Error correction advice and examples	✓	◊
Native/.NET interop analysis	✓	
CPU performance analysis	✓	◊
Performance session call graphs	✓	
Performance metrics per method	✓	✓
Performance metrics per line-of-code	✓	
Code coverage analysis with stability and volatility trending	✓	◊
Legacy Visual C/C++ and Visual Basic Support	✓	
Visual Studio 2005, 2003 and Visual Studio 6 support	✓	
Distributed application profiling	✓	
Correlated multi-tier analysis session results	✓	

◊ Indicates limited functionality

For additional information please visit: www.microfocus.com