

MICROSOFT® VISUAL STUDIO® 2005 TEAM SYSTEM

Integrated life-cycle tools for faster
more effective application development

Microsoft® Visual Studio® 2005 represents one of the most significant developer tools releases since the introduction of Visual Studio nearly a decade ago. It offers developers of all types a wider spectrum of development possibilities and a greatly advanced design experience.

Microsoft Visual Studio Team System is an entirely new series of productive, integrated life-cycle tools that help development teams communicate and collaborate more effectively. It provides tools to support the entire software development team—software architects, developers, and testers.

The result: a more efficient development process.

A NEW, BETTER WAY TO WORK:

VISUAL STUDIO TEAM SYSTEM

Today's software systems comprise numerous distributed services spanning platforms, protocols, and programming languages, all with significant impact on the operations environment. Moreover, teams have become increasingly specialized and geographically distributed. Successful deployment of modern solutions depends on bridging the communication gap between development and operations so that the entire IT department is represented early and often throughout the software life cycle.

The new Visual Studio Team System offers tightly integrated and extensible tools that enable software development teams to develop more efficiently by improving communication and collaboration throughout the development process.

WITH VISUAL STUDIO TEAM SYSTEM ORGANIZATIONS CAN:

- **Reduce the complexity** of delivering modern service oriented solutions.
- **Facilitate collaboration** among all members of a software team, speeding development time and ensuring the predictability and reliability of the development process.
- **Customize and extend** the Visual Studio Team System with their own internal tools and process frameworks, or use supplemental partner products.

Visual Studio Team System also includes the Microsoft Solutions Framework (MSF). MSF is a highly customizable, scalable, fully integrated set of software development processes, principles, and proven practices designed to deliver the type of guidance desired by the user when and where it is needed. MSF provides a seamless experience with Visual Studio Team System for process automation and guidance within the software development life cycle.

AVAILABLE WITH MSDN PREMIUM SUBSCRIPTIONS

Visual Studio 2005 Team Suite, Team Edition for Architects, Team Edition for Developers, and Team Edition for Testers are all offered with MSDN® Premium Subscriptions. An MSDN Premium Subscription provides continuous, priority access to the technologies you need to support Visual Studio Team System and build a broad range of applications and Web services, including:

- **Latest Microsoft operating systems.**
- **Broad range of the latest Microsoft Windows Server System™ products.**
- **Microsoft productivity applications.**
- **Technical support** includes unlimited usage of MSDN Managed Newsgroups for online support with a guaranteed

response time of two business days, phone-based support incidents, and free access to MSDN Online Concierge for nontechnical questions regarding navigation of the MSDN site, Knowledge Base article searches, and MSDN Subscriber Downloads.

- **Continuously updated technical content** is available through the MSDN Library, which offers comprehensive programming information, code samples, sample applications, technical documentation and articles, and the Microsoft Developer Knowledge Base.

For more information, please visit <http://msdn.microsoft.com/howtobuy/vs2005>.

If you are a Volume Licensing customer, please contact your Microsoft Account Manager or Microsoft reseller.



VISUAL STUDIO 2005 TEAM SUITE

The Microsoft Visual Studio 2005 Team Suite combines each of the Visual Studio Team System products—Microsoft Visual Studio Team Edition for Software Architects, Microsoft Visual Studio Team Edition for Software Developers, and Microsoft Visual Studio Team Edition for Software Testers—into a comprehensive life-cycle management tool that addresses the needs of multifunctional roles in an organization.

With the Visual Studio Team Suite, you can **design for operations, ensure quality early and often, and ensure mission-critical performance** of your solutions. When coupled with the Microsoft Visual Studio 2005 Team Foundation Server, you will be able to communicate and collaborate more effectively with the rest of your team, all while driving greater predictability and efficiency throughout your organization's development process.

FEATURE HIGHLIGHTS

- » **Includes all three role-based products (Architect, Developer, and Tester)** for easy management of life cycle for all roles:
 - » Seamlessly work with all three tools
 - » Facilitates collaboration
- » **Integrated Web services modeling tools** that will enable you to design for operations.
- » **Code quality and performance tools** for building mission-critical applications.
- » **Load testing tools** for helping meet the rigorous performance demands of enterprise-class applications.
- » **Customize Visual Studio** with your own internal tools or use supplemental products from more than 190 Microsoft partners.

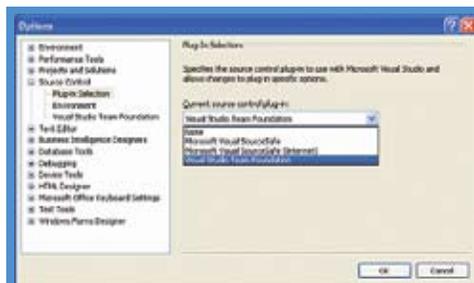


VISUAL STUDIO 2005 TEAM FOUNDATION SERVER

Visual Studio 2005 Team Foundation Server is what powers the collaboration aspects of the Visual Studio Team System. When used in conjunction with the Visual Studio Team System, Team Foundation Server enables you to effortlessly manage and track the progress and health of your projects with features such as enterprise-grade source code control and integrated work item tracking and reporting. Its integrated process methodology helps ensure more efficient and predictable software development.

FEATURE HIGHLIGHTS

- » **Enterprise-level product** for large-scale development efforts, with source code control and asset management.
- » **Integrated work item tracking and reporting** to track and view project health.
- » **Integrated process methodology** for more efficient and predictable software development.
- » **Project management tools** based on software that project managers already know.
- » **Ensures more efficient team communication** by allowing all members of the team to track progress.
- » **Integrated with Visual Studio Team System** role-based products, as well as complementary technologies, such as Microsoft Office SharePoint® Portal Server.



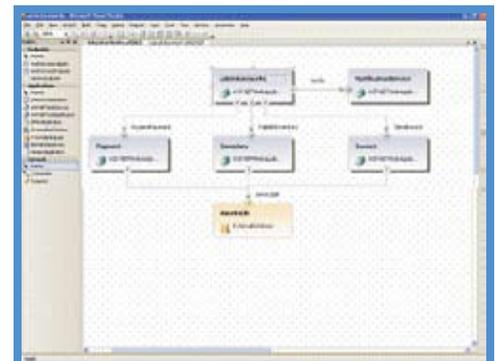
Team Foundation Version Control is a new version control system built from the ground up to support large, distributed development teams and projects.



VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE ARCHITECTS DESIGN FOR OPERATIONS

Visual Studio 2005 Team Edition for Software Architects is the first deliverable of the Dynamic Systems Initiative, aimed at improving the design and validation of distributed systems. Visual Studio Team Edition for Software Architects gives architects, operations managers, and developers the ability to increase the predictability of success by visually constructing service-oriented solutions that can be validated against their operational environments prior to deployment.

Application architects can visualize their service-oriented applications and developers can work with the generated code while keeping the code changes synchronized with the visual design. Infrastructure architects can create logical abstractions of their datacenter and validate it against the constraints of the application/datacenter designed by the application architect prior to actual deployment. Reports generated from this validation help to document the deployment mapping.



The Visual Studio Team System Application Designer provides an intelligent whiteboard that allows the software architect to drag and drop services and applications onto the design surface, configure settings, and then connect the shapes.



SOFTWARE ARCHITECTS—

**VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE DEVELOPERS—
QUALITY, EARLY AND OFTEN**

FEATURE HIGHLIGHTS

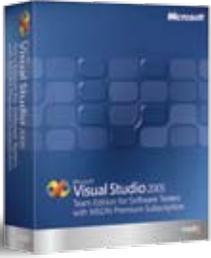
Visual Studio Team System enables advanced developers to verify the performance and quality of the code they write before they deploy. Developers can now detect common coding and security-related issues earlier in the development cycle, reducing the overall cost of fixing code defects. And the tight integration of these advanced tools into the Visual Studio IDE helps developers incorporate the new functionality in Visual Studio Team System into their existing workflow, minimizing the need for new training.

FEATURE HIGHLIGHTS

- **Modeling tools** that allow architects to design applications that seamlessly integrate with the development environment.
- **Integration with the existing** Visual Studio project system and Microsoft .NET Framework technologies.
- **Full synchronization** between visual design elements and code.
- **Common language (System Definition Model) that facilitates communication** with developers.
- **An extensibility framework** to allow new kinds of application and hosting systems to be modeled.
- **Application Designer** that allows developers and architects to define applications that will be configured into systems for deployment.
- **Logical Datacenter Designer** that can be used to create diagrams or interconnected hosts that represent the logical structure of a datacenter for the purpose of communicating important information to the developer about the target deployment environment.
- **System Designer** that can be used to compose applications into systems.
- **Deployment Designer** that is used to bind applications within your system to logical servers (application hosts) modeled in a logical datacenter diagram.

- **The capability to ensure the production of quality applications** by using integrated testing and code coverage tools to test code modules during development.
- **Code profiling tools** to ensure the best possible performance of applications.
- **Static code analyzers** that diagnose critical security and performance errors before they creep into production by detecting defects in code by inspecting the source or binaries without running the code.
- **Application Verifier** that detects runtime problems in the area of memory allocation, detects overrun or heap-allocated blocks, reuse-after-delete, double-delete, and heap contamination. In the area of critical section usage, it detects operations that may lead to deadlocks or resource leaks. In the area of handle usage, it detects attempts to reuse handles after they are no longer valid.

VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE ARCHITECTS	VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE DEVELOPERS	VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE TESTERS	VISUAL STUDIO TEAM TEST LOAD AGENT
Application Modeling	Dynamic Code Analyzer	Load Testing	
Logical Infrastructure Modeling	Static Code Analyzer	Manual Testing	
Deployment Modeling	Code Profiler	Test Case Management	
	• Unit Testing •	Web Testing	
	• Code Coverage •		
• Class Modeling •			
• Visio and UML Modeling •			
• Team Explorer •			
• Visual Studio Professional Edition •			
VISUAL STUDIO 2005 TEAM FOUNDATION	Change Management	Reporting	Integration Services
Build	Work Item Tracking	Project Site	Project Management



VISUAL STUDIO 2005 TEAM EDITION FOR SOFTWARE TESTERS— ENSURE MISSION-CRITICAL PERFORMANCE

Visual Studio 2005 Team System introduces a series of load testing tools for Web applications and services that are integrated into the Visual Studio environment. These advanced load testing tools enable testers to author, execute, and manage tests and related work items—all from within Visual Studio. Tight integration into the Visual Studio Team System workflow means testing is no longer an afterthought in the development process. Instead, software testers can participate throughout the software life cycle and ensure greater performance and scalability of their solutions.

FEATURE HIGHLIGHTS

- **A comprehensive set of test tools** that lets testers author, execute, and manage tests and related work items all from within Visual Studio—they don't have to use a separate environment.
- **Web tests, load tests, manual tests, and unit tests**—all with their own wizards and editors.
- **Load test results that can be shared** with other team members.
- **The ability to easily write test scripts** to zero in on specific areas of code they want to check.
- **Simple verification of bugs**—testers can easily create and link bugs back to the test code so that it can be easily reproduced.
- **An extensible infrastructure** that allows testers, developers, and partners to create their own test types, editors, and playback mechanics that integrate with Visual Studio.



VISUAL STUDIO 2005 TEAM TEST LOAD AGENT

Microsoft Visual Studio 2005 Team Test Load Agent, a supplemental test load for use with Visual Studio 2005 Team Edition for Software Testers, enables organizations to simulate more users and more accurately test the performance of Web applications and servers. Team Test Load Agent, which includes both agent and controller software, is highly extensible and customizable, giving testers an enormous amount of flexibility at a fraction of the cost of most competitive performance testing environments.

FEATURE HIGHLIGHTS

- **More accurate simulation and performance testing** of Web applications and servers.
- **License that grants unlimited virtual user simulation per process** (dual core processors included).
- **Simulation of approximately 1,000 users** per processor.
- **Tight integration with Team Foundation Server**, enabling test data to be incorporated into several analytic reports.



Visual Studio Team System includes tools that enable software testers to perform a variety of load and stress tests on applications being developed.

	Visual Studio Team Edition for Software Architects w/ MSDN Premium Subscription	Visual Studio Team Edition for Software Developers w/ MSDN Premium Subscription	Visual Studio Team Edition for Software Testers w/ MSDN Premium Subscription	Visual Studio Team Suite w/ MSDN Premium Subscription
MULTI-LANGUAGE DEVELOPMENT ENVIRONMENT FOR THE PROFESSIONAL DEVELOPER				
Visual Studio Team Edition for Software Architects	●			●
Visual Studio Team Edition for Software Developers		●		●
Visual Studio Team Edition for Software Testers			●	●
Class Designer	●	●	●	●
Unit Testing, Code Coverage		●	●	●
Dynamic Code Analyzer, Static Code Analyzer, Code Profiler		●		●
Application Designer, Logical Infrastructure Designer, Deployment Designer	●			●
Visio and UML Modeling	●	●	●	●
Load Testing, Manual Testing, Test Case Management, and Web Testing			●	●
Visual Studio Professional	●	●	●	●
Microsoft Visual Basic®, Visual C++®, Visual C#, Visual J#®, Visual Web Developer™, and Visual FoxPro®	●	●	●	●
Reusable component creation, Server Development Tools, Advanced debugging tools including cross machine debugging	●	●	●	●
Smartphone, Pocket PC, and Windows CE Development; Web application precompilation	●	●	●	●
Visual Basic and Visual C# Stored Procedure Authoring and Deployment	●	●	●	●
Visual Database Tools; Oracle and DB2 database access; XSD Editor; XSLT Editor and Debugger	●	●	●	●
Visual Studio Tools for Office	●	●	●	●
Microsoft Excel®, Microsoft Word, Microsoft Outlook®, and Microsoft InfoPath® programmability	●	●	●	●
Integrated visual design surfaces for Microsoft Word and Microsoft Excel	●	●	●	●
Action Pane and Smart Tag programmability	●	●	●	●
Microsoft Access 2003 Developer Extensions and Runtime License	●	●	●	●
Source code and version control for small team collaboration using Microsoft Visual SourceSafe®	●	●	●	●
ENTERPRISE APPLICATION LIFE-CYCLE MANAGEMENT TOOLS AND APPLICATIONS				
Team Foundation Server Workgroup Edition (limited to 5 connections)	●	●	●	●
Team Explorer (Includes 1 CAL)	●	●	●	●
Enterprise templates, policies, and guidance for sharing development best practices	●	●	●	●
Advanced software, database, and business process modeling tools	●	●	●	●

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