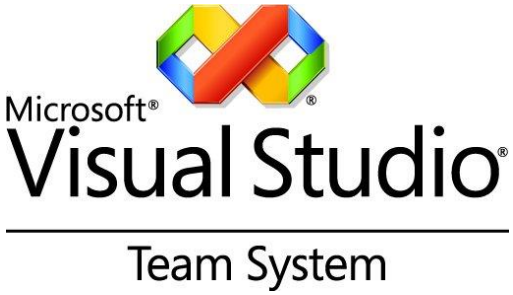

Scenarios, Features & Improvements

In addition to developer productivity improvements and new supported platforms and technologies in Visual Studio 2008, Visual Studio Team System 2008 will include the following new scenarios, features and improvements.

Visual Studio Team System 2008 Team Suite

- Visual Studio Team System 2008 Database Edition and related MSF process guidance will be fully integrated into Visual Studio Team Suite
- Run profiling during load and test procedures for a system, to see how it behaves, and use integrated tools to profile, debug and tune.

Visual Studio Team System 2008 Architecture Edition

- Top-down service design to allow an application architect/lead developer to perform the design of a business solution without having to be confronted with technology decisions.
- It enables the user to progressively refine a high-level system design, designing new sub-systems and applications in the context of the system in which they are to be used.

Visual Studio Team System 2008 Development Edition

- Code metrics to show cyclomatic complexity calculations. With this information, developers can identify complex and error-prone code and prioritize it for testing.
- Profiler Support for WCF Applications to enable profiling of WCF based applications to improve application performance
- Customize and extend code correctness policies to communicate to a developer why the check-in policy failed and to provide guidance on how to pass the policy requirements.
- Performance tune an enterprise application supporting base-lining, so that users can save a baseline profile and then, if the performance degrades,

compare up-to-date traces to identify the source of the regression. The saved baseline profiles can also be shared between team members.

- "Hotpathing" to show the path through the code that accounts for maximum performance issues in terms of metrics like CPU / Memory / Disk usage etc. "Hotpathing" can identify and navigate to the method that is causing these performance issues automatically.

Visual Studio Team System 2008 Test Edition

Web and load test improvements including:

- Web Test Validation Rule Improvements to enable testers to create more comprehensive validation rules for the application being tested. These improvements include the following functions:
    - Stop test on error
    - Search request and response
    - Add validation rule for title
    - Redirect validation
    - Provide test level validation rules
    - Expected HTTP code
    - Warning level for errors on dependents
- Better Web Test Data Binding to allow users to data bind .CSV and XML files, as well as databases to a web test, using a simple data binding wizard.
- Improved Load Test Results Management so a user can open or remove an existing load test result from the load test repository. User can also import and export load test results files.
- Load test summary report support for multiple machine graphs in Load Test Analyzer
- Web Test recorder now records Ajax requests and JavaScript pop-ups
- Load Modeling support initialize and terminate functions for a virtual user, as well as modeling load based on user pacing.

Visual Studio Team System 2008 Team Foundation Server

Continuous Integration and build improvements for Team Foundation Server to enable members of a team to integrate their work frequently, automate builds, and integrate tests to detect integration errors as quickly as possible:

- Support multi-threaded builds with the new MSBuild.
- Build queuing and queue management

- Drop management (so that users can set policies for when builds should be automatically deleted)
- Build triggers that allows configuration of exactly how when CI builds should be triggered, for example – every checkin, rolling build (completion of one build starts the next), etc.
- Improved ability to specify what source, versions of source, etc. to include in a build.
- Improved ability to manage multiple build machines.
- Simplified ability to specify what tests get run as part of a build.

Version Control improvements:

- Destroy- The version control destroy operation provides administrators with the ability to remove files and folders from the version control system. The destroyed files and folders cannot be recovered once they are destroyed. Destroy allows administrators to achieve SQL server disk space usage goals without constantly needing to add more disks to the data-tier machine. Destroy also facilitates removing versioned file contents that must be permanently removed from the system for any other reason.
- Annotate - Annotate is a feature that allows developers to inspect a source code file and see at line-by-line level of detail who last changed each section of code. It brings together changeset data with difference technology to enable developers to quickly learn change history inside a source file.
- Folder Diff - Team Foundation Server now supports compare operations on folders, whereby the contents of the folder are recursively compared to identify files that differ. Folder diff can compare local folders to local folders, local folders to server folders, and server folders to server folders. It's a great way of identifying differences between branches, files that you've changed locally, and files that have changed between two points in time.
- Get Latest on Checkout - As an optional setting on a team project or on an individual basis, you can have Team Foundation Server always download the latest version of a file when you check it out. This helps ensure that you don't have to merge your changes with somebody else's when you check the file back in.
- Workspace mapping enhancements to improve flexibility in client mappings and simplicity in definition. This includes the ability to support mapping a

folder or file under a cloaked folder and wildcard mappings so that you can map all files in a folder without mapping sub folders.

- Performance improvements to improve virtually all aspects of version control performance. The gains for larger projects (particularly where the file count approaches 100,000's) are substantial.
- Scale improvements to fix memory problems on the server when operating on more than a few hundred thousand files at a time.

Improvements to Data Warehouse:

- Data Warehouse improvements including collecting check-in policy overrides statistics in the warehouse.

Improvements to Team Foundation Server administration, operations and setup:

- Sync large groups (>30K users) to improve handling of large groups of users
- SQL named instances to share a SQL server between multiple SQL instances
- Support for alternative websites and ports to conform with enterprise policies
- Simplified installation
- Support for client certificates
- SharePoint 2007 support and use of a separate SharePoint farm