



Microsoft®

# Visual Studio Team System 2008 Test Edition

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## What's New in Visual Studio Team System 2008 Test Edition

### Testing Methods of Your Code

You can now create and run unit tests more easily and quickly, and for more kinds of production code.

#### Run Unit Tests More Easily

New menus and key combinations enable developers of unit tests to start test runs and select the tests to run more quickly. Also, you can now generate tests from a binary file, without access to product source code. You can generate tests for generic data types as return values and method parameters.

#### Use Inheritance Between Test Classes

Test classes can now inherit members from other test classes. This enables developers to create initializations or tests in a base test class, from which all other derived tests classes will inherit. This feature helps reduce duplicated test code. This gives developers more options to customize their unit tests correctly.

#### Run Unit Tests on Devices

Visual Studio provides a suite of tools for testing Microsoft Visual C#® and Microsoft Visual Basic® smart device applications. These tools provide a subset of the functionality found in the Visual Studio Team System 2008 Test Edition.

#### Create Host Adapters

Typically, you run tests in the default environment provided by Visual Studio Team System testing tools. To run tests in a different environment, use a host adapter. You can use the Visual Studio Software Development Kit (SDK) to create new host adapters. Download the Visual Studio SDK from the affiliate site.

#### Improved Unit Test Data Binding

You can now use a wizard to easily bind a unit test to a data source, including CSV files and XML files.

### Web Testing

Visual Studio Team System offers more control for authoring Web tests.

#### Call a Web Test from Another Web Test

Insert a call to one Web test from a second Web test.

#### Improved Web Test Data Binding

Visual Studio Team System 2008 Test Edition now includes built-in support for CSV and XML files. A new wizard facilitates the data binding process. You can also preview the data before you complete the process.

#### Improved Web Test Features

Visual Studio Team System 2008 Test Edition now includes support for test level validation rules. You can create validation rules at the test level. These new rules can apply to all individual requests in the test. You can stop a Web test if an error occurs in the test. Also, you can validate the return of an expected HTTP status code. In Visual Studio Team System 2008 Test Edition you can now extract requests from Web tests to create new Web tests. You can also insert calls to other Web tests. This means you can create Web test components and reuse your Web tests and Web requests.

### Load Testing

You can now use more realistic load modeling options for running load tests. Also, you can organize the returned data in ways that are richer and more flexible.

#### Control Load Modeling

Load tests now offer additional load-modeling options. These options enable you to create load tests that more accurately model the expected real-world usage of an application or Web site. You can now model usage based on the number of tests run, the amount of time spent on each test, or the pace at which the users run the tests.

#### Improved Load Test Analyzer Views

The Load Test Analyzer includes a new summary view that displays the key indicators and results in a single page that you can print and export. Also, four new built-in graphs display key information. You can view up to four graphs at the same time. These enhancements enable you to view up to four tables at the same time.

#### Improved Load Test Results Repository Management

Visual Studio Team System 2008 Test Edition includes a new Repository Management dialog box that enables you to access directly the load test results repository. Now it is easy for you to open, import, export, and delete load test results.

#### Published Schema for XML Files

As you work with Visual Studio Team System 2008 Test Edition, it creates and stores data in XML files. These files include the following:

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## Load Testing (continued)

**Test metadata file.** This type of file has the extension .vsmdi. Test metadata files store information about the tests in your solution.

**Test results file.** This type of file has the extension .trx. When you run tests, Visual Studio automatically saves test results to a .trx file.

**Manual tests in text format.** This type of file has the extension .mtx. When you create a manual test in text format, it is saved into your test project as a file of this type. In the Visual Studio Team System 2008 Test Edition, all the XML files used by the Test Edition are defined by a new XSD named TestTypes.xsd. Any edits that you make to these files, manually or programmatically, must result in XML that conforms to the schema defined in this XSD. Similarly, any files that you create with these extensions must also conform to the schema defined in this XSD. Otherwise, the Visual Studio Team System 2008 Test Edition cannot use them.

Test projects created in Visual Studio 2005 contain XML files. When you open a Visual Studio 2005 test project, the Visual Studio 2008 project upgrade wizard prompts you for permission to convert the files into the new format. To use the files in Visual Studio Team System 2008 Test Edition, you must let Visual Studio convert the files. If you decide not to convert or upgrade one or more files, Visual Studio cannot open your test project. Similarly, if you add an existing file of the previous format to a test project, you will be prompted to let Visual Studio upgrade the file format. If you answer

yes, Visual Studio converts the file and makes it available as part of the test project. If you answer no, your request to add the files is canceled.

### This release provides the following benefits:

- **Improved Web test validation rules.** You now have more flexibility to apply validation rules and use their results to control Web test program flow.
- **Better control of load modeling.** You now have more flexible ways to control the load modeling in load tests that you run.
- **Improved load test analyzer views.** New built-in graphs and viewing capabilities make it easier for you to quickly understand load test results.
- **Improved load test results repository management.** You now have easier access to the repository for load test results.
- **Schematized XML file for test results.** You can now work programmatically with the test results that are automatically stored in XML format in a .trx (test results) file.

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