



THE LEADING .NET CODE QUALITY PLATFORM

NCover Complete Extends Your Microsoft® Visual Studio Team System

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Extend Your Development Environment and Reduce Risk

The emergence of team-based development processes for software creation presents an overwhelming advantage to companies looking to enhance the quality of the products that they develop. The most compelling collaborative framework for .NET developers is offered in Microsoft’s Visual Studio Team System. In Microsoft’s own words, Team System for Visual Studio provides multidisciplined team members with an integrated set of tools for architecture, design, development, database development and testing of applications. Team members can continuously collaborate and utilize

a complete set of tools and guidance at every step of the application life cycle. **NCover Complete** enhances the collaborative Team System environment by adding a series of code quality components through our code coverage analysis. This analysis provides management the additional transparency into processes to consistently hit deadlines and mitigate the risk of cost overruns. While the basic feature set of both VSTS and NCover remain notably the same, there is additional value provided in the **NCover Complete** offering in advanced GUI and command line functionality.

Basic System Features	Visual Studio Team System	NCover Complete
Windows XP x64 / 2003 x64 / Vista x64	✓	✓
Basic and Advanced .NET Code Coverage	✓	✓
Basic HTML Rendering of Coverage Results	✓	✓
Basic GUI for Limited IDE Support	✓	✓
Drill-Down Tree View of Data	✓	✓
Advanced GUI with Modular IDE Support		✓
Advanced Command Line Enabled Functionality		✓



More important than basic software features is the scope of coverage and methodology that each tool utilizes to provide analysis and meaning around resultant trends. This is key, in that single points of diagnosis may not lend themselves

to meaningful causality that can be measured and enhanced. **NCover Complete** specifically targets a wide array of analysis points to build on existing “gut instincts” that developers have about the reliability of their project.

Coverage Scope and Methodology	Visual Studio Team System	NCover Complete
Advanced Window’s Service Profiling	✓	✓
Simple / Easy ASP.NET Coverage Analysis	✓	✓
Coverage Analysis Does Not Change Binary		✓
Hybrid Line Coverage Analysis	✓	✓
Sequence Point / Symbol Coverage Analysis		✓
Branch Coverage Analysis		✓

Dynamic code coverage presents powerful analytics that highlight code coverage results. Presenting this data alongside static results such as code complexity can provide the truest context for coverage results

that are reported. Further, moving method visit analysis beyond static theoretical modeling to actual visit counts is valuable for understanding what parts of your code are actually being put to work.



Advanced Profiling Analytics	Visual Studio Team System	NCover Complete
Method Visit Coverage Analysis		✓
Cyclomatic Complexity Analysis		✓
Analysis and Trending of Visual Studio Foundation Server Coverage Files		✓

Clear reporting is a necessity for analytic tools. Without reporting that leads to actionable, process-enhancing workflow, most of the advantages of coverage profiling are largely negated. **NCover Complete** reporting encompasses the

impressive scope of the process that is being undertaken. More than two dozen individual reporting options are made available on top of the Visual Studio reports that can be output from the platform.

Reporting Capability Features	Visual Studio Team System	NCover Complete
Standardized HTML Reporting	✓	✓
Drill-Down “Snapshot” Management Reporting		✓
Data Analysis Trends Attached to IDE		✓
Advanced HTML Trend Reporting		✓
Advanced Visual Analysis of Multiple Concurrent Coverage Types		✓



Running a comprehensive code coverage program should not cause more problems than it solves. Results should be focused at the touch of a button without needing to re-run the entire profiling process. As well, loading large legacy coverage

files should not be overly cumbersome and time consuming. **NCover Complete** incorporates new memory optimization features that have accelerated profiling by as much as 52 times faster than our legacy platform.

Data Optimization Features	Visual Studio Team System	NCover Complete
Pre-Analysis Assembly Exclusion Filtering	✓	✓
Post-Analysis Exclusion Filtering		✓
Pre-Analysis Assembly Inclusion Filtering		✓
Post-Analysis Assembly Inclusion Filtering		✓
Pre-Analysis Method Exclusion Filtering		✓
Post-Analysis Method Exclusion Filtering		✓
Post-Analysis Method Inclusion Filtering		✓
Source File Exclusion		✓
Advanced Memory Footprint Optimization	✓	✓

The software development eco-system is key to the NCover community philosophy. Developing software should be collaborative, fun, and quality centered. **NCover Complete** provides a focus on making you better without forcing you to change the tools you already work with and know.



Program Interoperability Features	Visual Studio Team System	NCover Complete
Third-Party Developer Tool Integration	✓	✓
Free / Community Edition Available		✓
Integration with Multiple Test Frameworks		✓

Get more from your Visual Studio experience by adding **NCover Complete** to your developer tool set. For more information about how you can extend your development experience or to get your own customized workflow analysis, check out our website at www.NCover.com or start chatting with us at conversation@ncover.com.

* All information obtained for comparative analysis was taken from publicly available sources and does not include any customizations beyond the installation options readily available.