CODE COVERAGE FOR THE TEAM
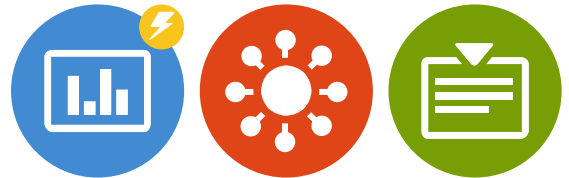
WHY THE WORLD'S LEADING .NET DEVELOPMENT TEAMS RELY ON CODE COVERAGE AND WHAT IT MEANS TO YOUR TEAM

NCOVER

MISSION CRITICAL .NET CODE

Quality code is a team effort

Throughout the planning, development and testing process, modern .NET teams are constantly challenged with delivering solutions that are critical to the overall success of their organizations. Operating in highly agile environments, teams are expected to deliver increasingly more sophisticated solutions on-time and on-budget that meet the highest levels of quality. Delivering mission critical .NET code is a team effort that requires close coordination.

NCover is an essential tool for identifying where you can improve your tests, and your code, as early in the development cycle as possible. Effective tests are critical for delivering high quality code, reducing risks and maintenance costs, and increasing customer satisfaction. NCover is vital to insuring that your code is thoroughly tested. For members of the QA, development, and management teams, NCover provides the tools necessary to manage and deliver quality .NET applications.
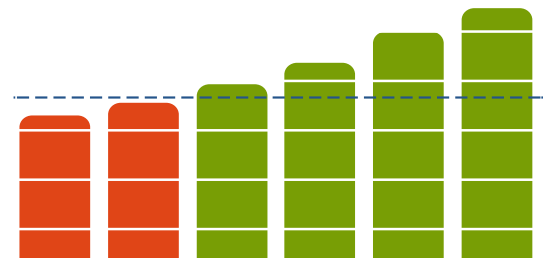
IMPORTANCE OF CODE QUALITY

Higher quality code, happier end users

Code coverage is most valuable as a feedback mechanism for test-driven or agile development methodologies. Both of these methods rely on a developmental feedback loop that promotes the addition of features while maintaining a predictable quality level. Code quality is one of the most important concerns of any software development organization. Rapid development and technical prowess will only yield breakthrough results if customers can rely on the quality of your product.

NCover provides a team-based solution that allows code quality to be relevant and easily accessible across the entire organization. Developers get immediate feedback on new code and are supported by QA testing efforts, allowing team leads and managers to focus on the most critical areas of code.

.NET COVERAGE COMES TOGETHER

Collect coverage across the team

NCover Code Central seamlessly pulls together your coverage data from any of the NCover products used by your team. Managers are able to see project overviews at-a-glance, monitor team-wide trends, and drill down into the details when needed. With just a few clicks, managers can set thresholds to ensure that your team is testing effectively and writing quality code. Developers and QA members can log-in from their desktops and view, not only how they are doing, but how their entire team is trending. This helps teams stay transparent and on task.

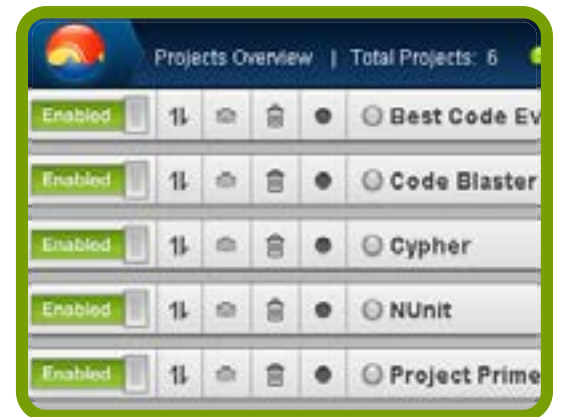## THE BIG PICTURE AND THE SMALL DETAILS

View coverage trends and dive deep

The NCover project overview page brings your coverage data for all of your code coverage projects into a centralized location. Whether you are an individual developer, a member of a development team, a team lead or a manager, you can quickly access up-to-date information about your code's health and take action where necessary. In addition, the ability to easily manage multiple projects and consolidate execution runs gives you control over the level of system resources required to effectively manage your code base.

FIND ACTIONABLE METRICS IN THE QUICKEST TIME POSSIBLE

Identify issues & focus on high priority areas

Whether you are viewing the meticulously designed projects overview page, the trend graph, or the easy to understand branch visualization, NCover is designed to help you understand and take action on your company's code coverage data. Quickly spot build quality issues with the multicolored trend graph. Use branch visualization to pinpoint the exact line of code that is unnecessarily complicating your code. Search your source code from every build to every method, making sure every line is up to your team's standards and that your code is as world-class as your development goals.

DEPLOY NCOVER TO MEET YOUR NEEDS

NCover is flexible enough to reflect your organization's structure. From the single developer to the entire integrated team, NCover is highly scalable and integrates well into existing teams to ensure quick adoption.

Integrated Team

Code Central was designed from the ground up for teams. Code Central collects coverage data across all associated projects, whether the coverage data is being generated by a developer testing their C# code, a QA member running manual tests or a build server running automated unit tests. In addition, all authorized Code Central users can simply log in via a web browser and get up-to-date coverage data.

Development Team

Code Central can connect an entire development team, providing an unmatched, interactive view of your coverage data so you can reduce errors, keep down your costs and deliver applications on-time. In addition to traditional licensing, Code Central also supports floating licenses.
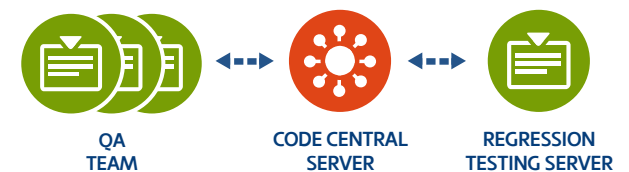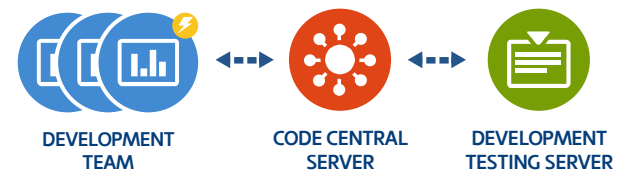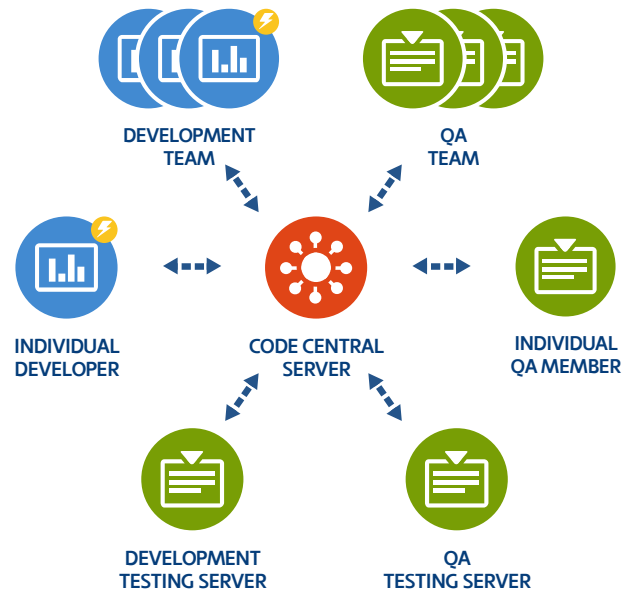
QA Team

Collector, when connected to Code Central, allows QA teams to quickly and effortlessly collect code coverage and provide feedback to managers and team leads. By integrating NCover into the quality assurance process, development and QA can work together to improve overall code health.

Individual Developers

Desktop provides individual developers with the industry's most powerful code coverage solution. Desktop also includes an integrated Visual Studio Extension, Bolt, that is both a code coverage tool and test runner that enables developers to maintain their Visual Studio workflow without unnecessary overhead.

Visit ww.ncover.com to learn more about how NCover can be put to work to help you take code coverage, and the quality of your code, to a whole new level.

DEVELOPMENT TEAM

QA TEAM

INDIVIDUAL DEVELOPER

CODE CENTRAL SERVER

INDIVIDUAL QA MEMBER

DEVELOPMENT TESTING SERVER

QA TESTING SERVER

DEVELOPMENT TEAM

CODE CENTRAL SERVER

DEVELOPMENT TESTING SERVER

QA TEAM

CODE CENTRAL SERVER

REGRESSION TESTING SERVER

INDIVIDUAL DEVELOPER

KEY FEATURES OF THE NCOVER SOLUTION

Whether you are an individual developer or a member of a development or QA team, NCover has a code coverage solution for your needs. Desktop provides unsurpassed performance and insight into your coverage and includes an integrated Visual Studio Extension, Bolt, that is both a code coverage tool and test runner. Code Central provides a central hub and allows for a unified coverage number across an entire release. Collector extends coverage to your QA team as a background service.

Key Features	Desktop	Code Central	Collector
CORE			
Number of Users Supported	1	Unlimited	1
Number of Standalone Projects	Unlimited	Unlimited	0
Centralized Data	✔	✔	
32 & 64 Bit Support	✔	✔	✔
Bundled Support	✔	✔	✔
Documentation	✔	✔	✔
Optimized Memory Consumption	✔	✔	✔
Auto Upgrade & Update	✔	✔	✔
CODE COVERAGE			
Data Rich Interactive Browser Interface	✔	✔	
Code Coverage	✔	✔	
Branch Coverage Visualization	✔	✔	
Source Code Syntax Highlighting	✔	✔	
Standard Source Code Analytics	✔	✔	
Cyclomatic Complexity	✔	✔	
Change Risk Anti-Patterns (CRAP) Score	✔	✔	
Set Coverage Thresholds	✔	✔	
Fail Builds Based on Satisfactory Thresholds	✔	✔	
Snapshots of Ongoing Coverage	✔	✔	✔
Portable Coverage Data Export (JSON, XML)	✔	✔	

PROJECTS, TEAM, TEST RUNNER and VISUAL STUDIO features continued on next page.

NCOVER

KEY FEATURES OF THE NCOVER SOLUTION

Key Features	Desktop	Code Central	Collector
PROJECTS			
Create And Manage Multiple Projects	✔	✔	
View Multiple Executions and Trends	✔	✔	
Consolidate Multiple Test Executions	✔	✔	
Merge Multiple Test Executions	✔	✔	
TEAM			
Automatically Configure Project Settings	✔	✔	
Automatic Data Syncing To Code Central	✔		
Multi-User Support		✔	
Floating Licenses	✔	✔	✔
Optimized for QA Teams		✔	✔
Distributable HTML Coverage Report		✔	
TEST RUNNER			
Run & Debug Unit Tests With Coverage	✔		
Test Run Prioritization	✔		
Setup & Teardown Test Timings	✔		
Run Tests From Multiple Frameworks	✔		
Command Line Test Runner	✔		
VISUAL STUDIO			
Project Sync With Desktop	✔		
Run Tests From Within Visual Studio	✔		
Developer-Centric Code Coverage View in VS	✔		
Branch Coverage Visualization in VS Editor	✔		

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