Why Silverthread is Best In Class

Silverthread's tools are often weighed against other static and code-analysis tools in the industry. While these tools are valuable and provide insight into various points of improvement throughout a codebase, they are fundamentally different from Silverthread's toolset. This month we take some time to discuss the key differences between Silverthread CodeMRI® and other software analysis products available on the market.

Silverthread's software quality analysis presents a complete picture of technical health

One of the **primary differences** between these other tools and Silverthread's CodeMRI® suite is the emphasis on valuable design quality and code quality metrics. Code quality analysis tools identify issues on specific lines of code within specific files and tend to assert the quality of a codebase is the summation of all these individual issues. While this bottom-up approach to software quality analysis is an important part of the overall picture it misses much of the context of these issues and disregards design quality – the other half of complete software quality analysis. Design quality focuses on the relationships between the parts of a codebase. These relationships are difficult to visualize without tool support and lead to increased defects and reduced productivity when they grow too complex.

Silverthread CodeMRI® is designed to identify, evaluate, and manage both code quality and design quality aspects of a codebase.

Only CodeMRI® tools have access to Silverthread's rich history of statistical data

Silverthread CodeMRI® is the only software quality analysis suite of tools on the market that transforms the code quality and design quality characteristics of a codebase into economic projections about that codebase. Silverthread technology combines 15 years of research between MIT Engineering and the Harvard School of Business to bridge the gap between the technical characteristics of a codebase and business outcomes. Silverthread's economic models are based on real-world data and can be used to gain insight into the expected performance of a codebase from just source code analysis. This same real-world data is also used to produce peer comparisons, so technology leaders can understand how other codebases of similar size and language perform. CodeMRI® is the only toolset with access to this rich data.

CodeMRI® tools are designed with decision support in mind

Finally, while other tools provide strong guidance on whether improvements **can** be made to a codebase, few tools are equipped to provide guidance on whether these changes **should** be made. Silverthread CodeMRI® is designed with decision-making support in mind. Starting with Silverthread CodeMRI® Portfolio, technology leaders are equipped with the information they need to track codebase health over time and respond immediately as new versions are released. CodeMRI® Diagnostics provides decision support with insight into both code and design-quality metrics for both leaders and technologists. CodeMRI® also includes a robust suite of support tools such as

- *Refactoring ROI -* designed to support business cases for change, the
- *Scheduler -* providing holistic estimates for feature delivery time, and
- *Technical Health Improvement Plan -* providing specific refactoring guidance for the most technically challenging improvements in a codebase.

Silverthread's tools are often set next to existing software quality analysis tools in the marketplace. While these tools excel at code-quality analysis, Silverthread's CodeMRI® suite of tools provides deeper information by combining holistic code- and design-quality analysis, economic modeling, and technology decision support.

Contact Us to Learn More
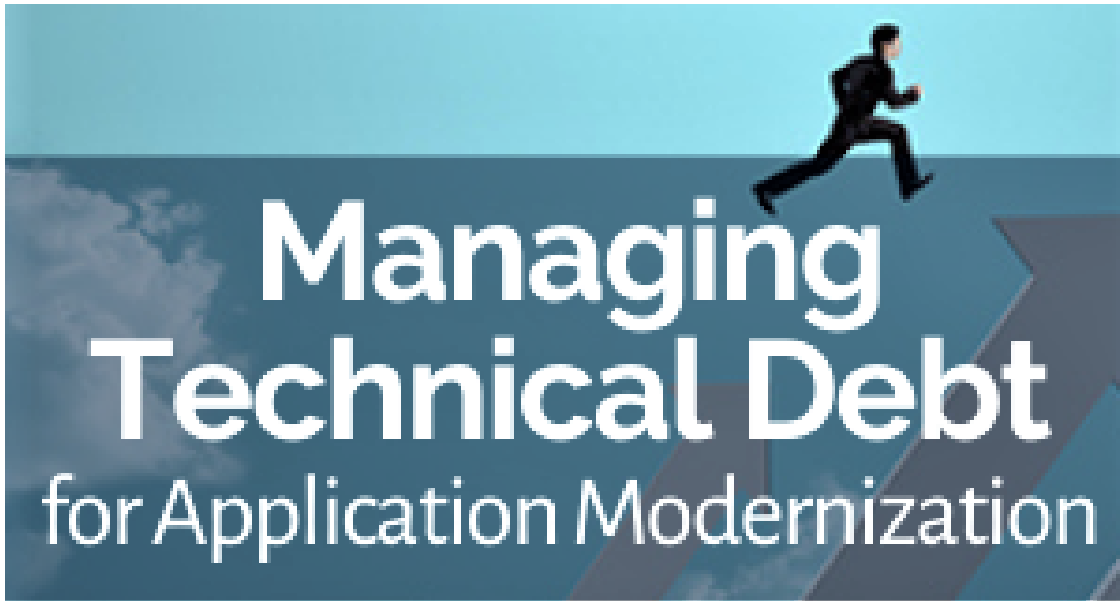
Were you unable to join our CEO, Dan Sturtevant, as he discussed managing technical debt for application modernization?

If so, you can check out the **webinar**, where participants learned:

- How to decide to move forward with a legacy system based on technical, financial, and risk considerations implicit in the technical health of the software asset
- Methods to systematically drive architectural improvement and technical transformation of legacy systems
- How to identify, evaluate, and remediate hidden modernization blockers within the software asset's architecture

Discover strategies for modernizing your legacy software assets.

Watch Now

Are you interested in learning how Silverthread's CodeMRI tools can help you manage your technical debt while modernizing your applications?

Contact Us Now to Schedule a Demo

CodeMRI®Portfolio

Measure hidden technical debt and quantify economic value across a portfolio, enterprise architecture, or 'system of systems'.
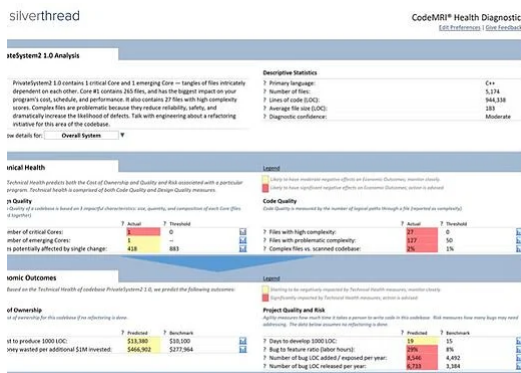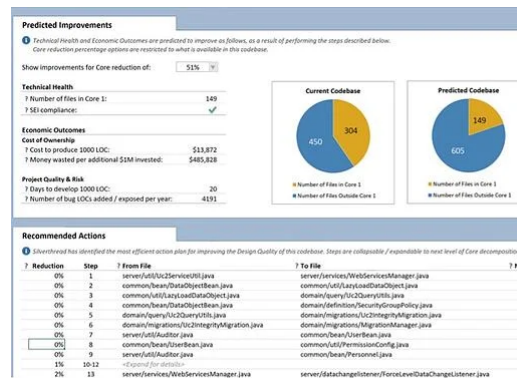
CodeMRI®Diagnostic

Gain deep insight into the technical health of a specific system and explore both current and projected economic outcomes.

CodeMRI®Care

Confidently restore technical health, improve KPIs and lower risk with developer tools that provide continuous real-time insight to the architectural health of a system.

Sign Up For A Free CodeMRI Portfolio Trial Today!

Download the latest version of CodeMRI® now!

Improved

- Allow users to run "add_inventory_metrics" in order to see inventory information at CLI without running reports or exporting web data.
- (Web) Added colors to the file list.
- (Web) Added inventory information to web diagnostic view.

Added

- Inventory information to system file list command.
- New "system inventory list" command to retrieve inventory information.
- New "vault inventory list" command to retrieve inventory summary for all selected systems within a vault.

Download Version 1.24.43

Know someone who would benefit from this newsletter? Share it with them!