



silverthread

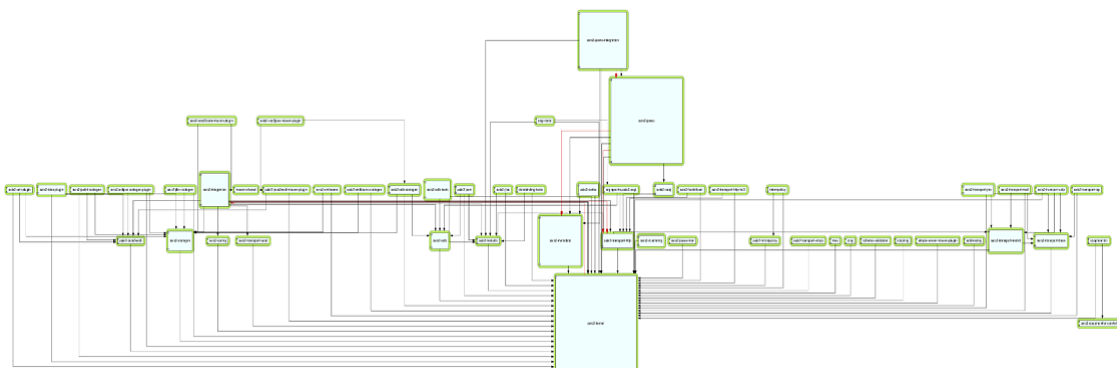
MONTHLY NEWSLETTER | JUNE 2021



## What is Quality Software Architecture?

Do you understand the architecture of your software? The words “architecture documentation” often conjure images of whiteboards full of circles and arrows or dusty documents that have been neglected over years of development. While once useful, both are likely lacking in consistency and correctness. As the structure of modern codebases becomes more complex, it becomes similarly more important for the modern technical leader to not only understand the architecture of their software but actively manage its growth over time.

Understanding the componentization of your software is critical, and complexity can grow out of control if mismanaged. As developers work making software, it is natural to group similarly functioning files together into single logical pieces or components – this is a healthy practice that helps control the complexity of individual portions of software. However, in most cases, this is where the story ends. Without management, these emergent components can grow too large, begin to lack consistent APIs, lose their private/public separation of concern, or become tangled haphazardly together. This sort of component mismanagement increases development costs and increases the likelihood of serious defects both in development and in the field.



Effectively and continuously managing software architecture does not need to be a costly exercise. Here are the **5 keys to effective component management**:

- Ensure each file is owned by one, and only one, component.
- Ensure each component separates public APIs from private details.
- Ensure the incoming and outgoing dependencies for each component are well understood and only exercise public APIs.
- Ensure components are structured in a hierarchy with a top (like a UI), middle (like business logic), and bottom (like database access).
- Ensure your componentization evolves with your software and can be regularly audited over time.

Silverthread **CodeMRI® Blueprint** makes component management simple. Blueprint provides an intuitive interface to not only specify components and their structure but also manage component evolution. Blueprint allows modern technology leaders a way to understand where the actual structure of their software differs from the specification by quickly auditing the entire codebase for common mistakes such as API circumvention, or component misuse. Graphical diagrams and a robust query interface make continuous and accurate component management a reality.

**Contact Silverthread today to take control of your software architecture and steer confidently into the future.**



Contact Us to Learn More

# CodeMRI®

Product Feature Release

## Download the latest version of CodeMRI® now!

### Improved

- (CLI) Make query result pagination more consistent with other commands.

### Added

- (Web) Use detailed inventory information for portfolio inventory.
- (Web) Detailed inventory view at the portfolio level.

[Download Version 1.24.42](#)



## UPCOMING NEWS

WEBINAR FEATURING DAN STURTEVANT  
JULY 28 12:00 EDT

### Managing Technical Debt for Application Modernization

REGISTER

Join our CEO, Dan Sturtevant, as he discusses managing technical debt for application modernization.

Application modernization and cloud migration are on the critical path of today's modern businesses. However, most legacy software assets house hidden modernization blockers that put these efforts at risk. How can you get past these roadblocks? Start by managing technical debt for a giant leap forward in modernizing your applications.

**Date: July 28, 2021**

**Time: 12:00 pm - 1:00 pm EDT**

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