

Overview of Razor

Software Configuration Management (SCM)

Visible Systems Corporation products include:

Razor (Activity-based, Integrated SCM)

Visible Analyst (Model Driven Architecture)

Visible Developer (Application Generation)

Visible Advantage (Self Service Data Discovery)

Razor Key Contributions

U.S. Navy Seawolf-class Submarine program

- Razor was used for version control of combat, weapons, and other mission critical systems.
- Razor integrated the work of 300 programmers.

NASA's Launch Processing System

- Razor was used for the upgrade to NASA's Launch Processing System (LPS) for the Space Shuttle to their new Checkout and Launch Control System (CLCS).
- Over 200 engineers were involved in the CLCS program.
- NASA used Razor to manage the configuration of software for the design of consoles to communicate with ground support for measuring 40,000 temperatures, measurements, flow rates, turbine speeds, voltages, valves, switches, etc.

Razor Release 6.0

Currently in Beta...

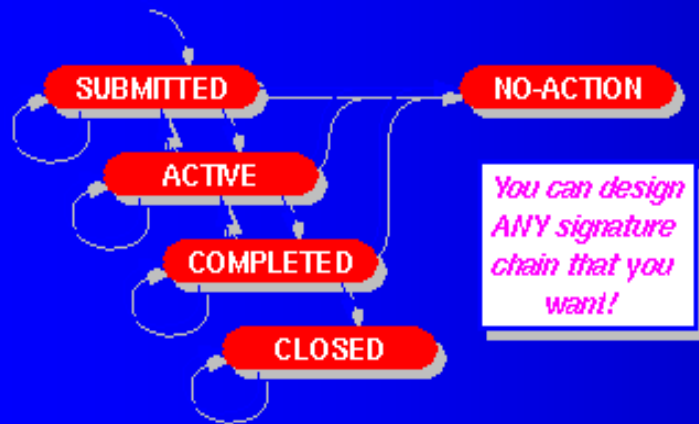
- ✓ Runs native on Windows and Linux.
- ✓ Integrates with Git.
- ✓ Supports Advanced Encryption methods.
- ✓ Includes relational database technology for ease of reporting.
- ✓ Capable of supporting more advanced database features such as temporal tables designed to keep a full history of data changes to allow easy point in time analysis.
- ✓ Scripting added for Windows.

<https://resources.visible-systems.com/razor-6-beta-release>



The Razor Integrated Architecture

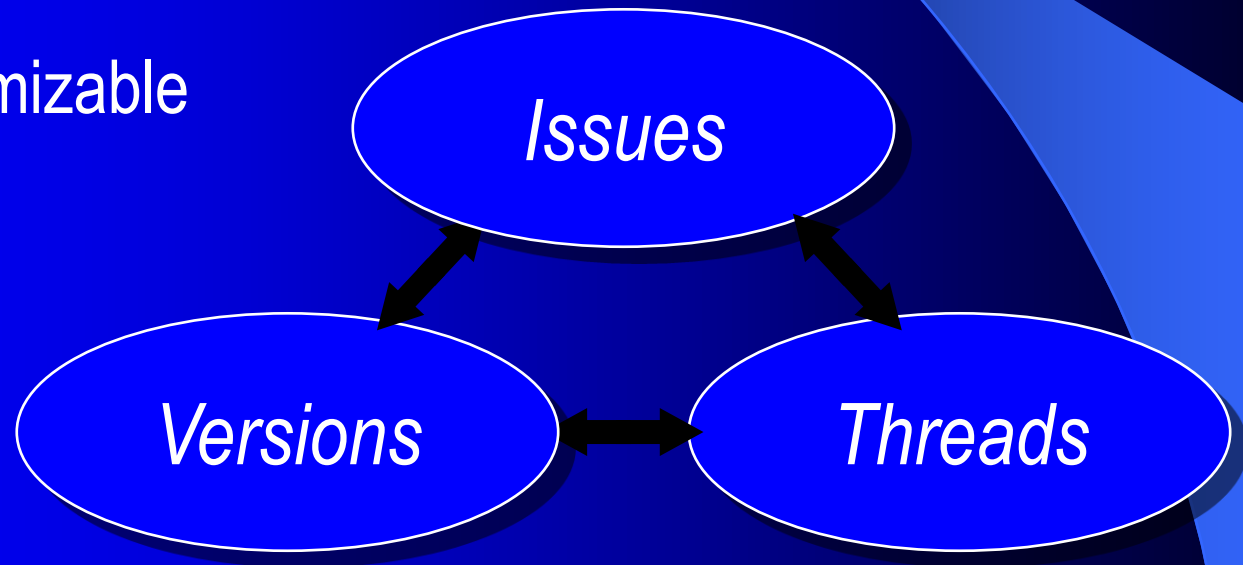
- ❖ Issue/Problem/Bug Tracking
- ❖ Version Control (all asset types, files and documents)
- ❖ Release Management
 - Minimize Error Rates, Reduce Cycle Times
- ❖ Fully Configurable Operations
 - People and Process Management



1. Improves Productivity
2. Improves Product Quality
3. Enhances Teamwork
4. Saves Time and Money

The Razor Trilogy

- ✓ Integrates Problem Tracking through Release Management
- ✓ Configures to your Process
- ✓ Highly Customizable



What is Razor?

- Razor is an integrated suite of tools
 - Combines a tailorable issue tracking system with traditional configuration management and build coordinated capabilities.
- The Razor suite of tools comes configured with a complete set of process forms & elements.
 - This insures the rapid deployment of your system with your processes & controls.
 - Whether you are managing 1,000 or 100,000 issues, Razor can do the job!
- The Razor suite can be configured to enforce rules for sign offs in each step of the process and supports automated email notifications.

What are Issues?

- Define your change process and enforce it using Issue Actions.
- Attach files containing related information to the issue.
- Send E-mail to interested parties when an Issue is updated or promoted.
- Manage your development effort by managing your issues.

What are Versions?

- Razor accelerates the complete cycle of files.
- File management including introduction, check out, check in, branching, and merge actions
- Rapid file version tracking and control with file locking through file check-out.
- Online difference reporting.
- Visually compare files between specified revisions or between specific revision and locally held user file.
- A complete history of all file versions is retained.
- Define and customize forms to suit your needs.

What are Threads?

- Integrated baseline management.
- A thread represents a collection of files that belong together.
- **Threads** allow you to build file groupings based upon the state of the file.
 - *Open, Inspected, Integrated, Tested, Released*
- Allows for the archive and reuse of previously built and tested threads.
- Link multiple threads into a Project to create complete baseline releases.
- Complete reproducibility – pull releases based on Issue Number or specific dates in time.

... take the guess work out of release management!

Razor Customers



Aero Simulation Inc., Tesco (Continental AG), Lockheed Martin, Lockheed Skunkworks, Lockheed Martin Space, Raytheon, BAE Systems, Integral Systems, BAE, E-Systems, SAIC, General Dynamics, Orbital Sciences, Kratos Analytics, Software One, United Launch Alliance, Roche, L3 (now L3Harris), Northrop Grumman, NAVY, NAVY Research Lab, NAVAIR - U.S. Navy Naval Air Systems Command, NAVSEA, NUWC NWPT (Naval Undersea Warfare Center), Naval Surface Warfare Center, USAF AFMC (USAF Air Force Materiel Command), Air force Office of Scientific Research (AFOSR), ARMY, USMC, NOAA, NASA, DISA, Wright Patterson Air Force Base, Robbins Air Force Base, MIT Lincoln Labs, National Buoy Data Center

Request a Demo of Razor

The term Razor comes from "Occam's razor".

It is as a rule of thumb used by scientists in the development of theoretical models.

Occum's razor refers to the "shaving away" of unnecessary assumptions when distinguishing between two theories.

Among the many uses, Occam's razor would be used to determine evolutionary change.

Similarly, Razor is used track evolutionary change in your software by helping you to manage your people, process and technology.

