

## AccuRev Workflow Edition 5.4 Software Configuration Management

AccuRev is a best-of-breed, process-centric software change and configuration management (SCCM) solution that addresses the visibility, process management, and cross-platform needs of mission-critical software development organizations. Additionally, AccuRev uniquely addresses the needs of complex parallel, geographically distributed and offshore application development environments. AccuRev's stream-based architecture has been designed to ensure optimal team collaboration, improve software asset reuse, and accelerate the software development process by 30%.

AccuRev enables and integrates any development process model or combination of models (Agile, Waterfall, RUP, etc.) together with your software assets. Through this unique design, organizations are able to dynamically manage and adapt their application development processes to their changing business needs in a fraction of the time required with traditional tools. With AccuRev, developers can focus on solving business problems.

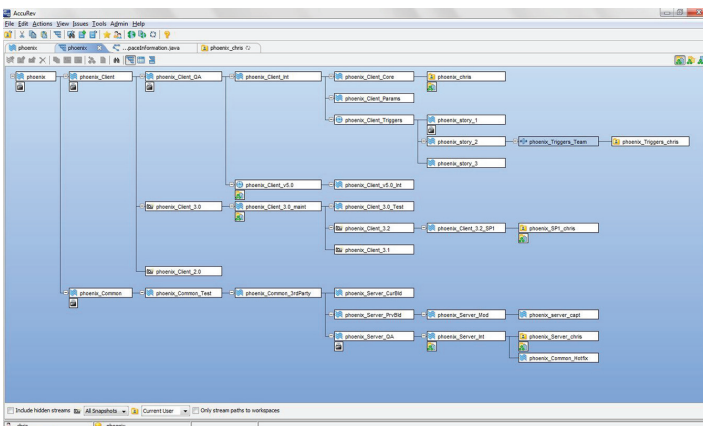
AccuRev simplifies the process of change request and task-based management with AccuWork, it's fully integrated issue tracking and change management solution. Additionally, with AccuBridge integrations, virtually all leading third party development tools are also fully supported.

### Solving the Process Problem

Adapting to the significant changes in the application development landscape in recent years (Agile, SOA, Java, .NET, XP, SOX, etc.), has required development organizations to implement more advanced, agile, and rigorous process models in order to keep pace with changing market demands (time to market, cost containment, regulatory compliance, risk mitigation, team productivity, changing priorities, etc.) and the associated ever-evolving business requirements. The problem is that since legacy SCM architectures were designed to solve a fundamentally different problem, productivity and output suffer.

### Stream-based Architecture

The proven stream-based architecture of AccuRev is built specifically for today's agile, parallel, and geographically distributed software development environments. Legacy branch and label SCM tools impose constraints on your development processes due to limitations in their design. AccuRev's architecture is designed with a stream-based data model to optimize the flexibility, power, and ease of use for your optimal development processes. AccuRev is the only tool that fuses development processes with software assets, ensuring that your processes are realized and enforced in their entirety.



### StreamBrowser

The AccuRev StreamBrowser™ provides a unique visual representation as well as dynamic graphical control of all work in progress for your entire global development organization. This eliminates the hand-scripted and error-prone process of maintaining your hierarchy outside of the SCM system, as is commonly done with separate tools such as Visio® or on a whiteboard. Additionally, all StreamBrowser functionality is available from the command line interface for maximum power and flexibility.

## AccuRev Highlights

### Out-of-the-box support:

- Visualization and drag-and-drop control of development process
- Supports Agile and other process models (e.g., Waterfall)
- Graphical collaboration for geographically distributed development
- Change packages and dependency analysis for issue-based development
- Audit trail and compliance: rebuild any release, anytime, Sarbanes-Oxley
- Private versioning for developers
- Components for team collaboration and software asset reuse
- Instant visual baseline creation
- Enterprise class product security
- Visual history annotation view
- Standard or floating licenses
- AccuBridge™ SDK for third-party integrations

### Optional add-ons:

- AccuReplica™ to maximize performance for remote teams
- AccuBridge integrations for leading IDEs, issue tracking, and other lifecycle tools
- AccuBridge for LDAP provisioning – users and groups

## Process Workflows

AccuRev's workflow functionality ensures that development teams follow a repeatable, predictable development process. AccuRev workflows provide compliance and process enablement, allowing teams to deliver change with adherence to a development standard. They can be modeled to match any type of process, including Agile, Waterfall, SOX, CMMI, ISO, and SPICE. Additionally, AccuRev workflows are automated, giving developers the freedom to focus on their jobs, without having to manually follow tedious process rules - the workflow engine unifies issue tracking and SCM workflows to enable teams to follow a process. This gives teams the assurance that their software development process is followed, documented, and secure.

## Integrated SCM Best Practices

AccuRev integrates proven SCM best practices, allowing you to easily map to your optimal process model. These best practices include built-in advanced parallel development capabilities that scale with your team's changing business requirements, enabling you to realize the most appropriate development process for these requirements. In addition to custom development processes, AccuRev customers have successfully implemented Agile methodologies, optimal SCM patterns, and other processes without constraints or unnecessary costs. AccuRev software greatly simplifies common tasks such as code reviews, nightly builds, refactoring, merging changes from release to release, and fast comparison and differencing.

## Security and Compliance (Sarbanes-Oxley)

With AccuRev's architecture, all processes and operations are TimeSafe®, guaranteeing reproducibility of your source base and enabling a strong and traceable audit trail. In addition, all changes to elements in a project are atomic transactions, applied in their entirety or not at all, avoiding the possibility of broken builds or indeterminate states due to the SCM tool. In support of Sarbanes-Oxley, the ability to rebuild any release at any time is critical; and because everything is TimeSafe, changes may be appended, but history cannot be modified, ensuring absolute reproducibility of any build at any time.

## Private Developer Workspaces

Developer "sandboxes" for private versioning and task-based development are native structures and can be created instantly with the StreamBrowser graphical interface. With private versioning, developers' work is continually backed up on the server and revision controlled. For those using Agile practices that encourage frequent check-ins, developers have confidence that the code will successfully build and pass unit testing before integrating it into the main code line.

## Integrated Issue-Tracking:

### AccuWork and Change Packages for Issue-Based Engineering

AccuRev Change Packages allow development teams to work at the issue level, not just the file level. Integrated issue tracking enables issues and features to be grouped together, and differencing between releases can be done at the feature/bug/patch level instead of just the file level. Change packages are integrated with issue tracking, and changes can be promoted or reverted by issue, supporting an ideal granular management of software change for an agile development process.

## Instant Renaming and Easy Refactoring

AccuRev features instant, authentic, single-step renaming of any object in the SCM system, including streams, directories, user names, and files. Rename support enables AccuRev to support authentic moves, which enable easy refactoring and reuse. Full history is preserved when renaming, which means no lost changes.

## Geographically Distributed Development with AccuReplica (optional)

With AccuReplica, geographically distributed development teams have immediate, transparent local access to all data in AccuRev, providing increased performance and efficiency. With AccuRev teams around the world can work together and collaborate as if a single co-located team.

### AccuRev Supported Platforms

Windows 7, Vista, XP, 2003 (Intel and AMD x86-based)  
Linux kernel versions 2.4.9+, RedHat AS/ES 3+ (Intel and AMD)  
Sun system: Solaris and Solaris x86 (version 2.5.1+, including Solaris 10)  
Apple systems: OS/X+ (PPC client-only)  
HP systems: HP-UX (version 11.0+)\*  
IBM systems: AIX (RS/6000) (version 4.3.2+)\*  
\*Client support only

### AccuRev Supported Platforms Matrix

<http://www.accurev.com/asm>

### Native IDE support

Eclipse 3.6  
Microsoft Visual Studio 2003, 2005, 2008, 2010

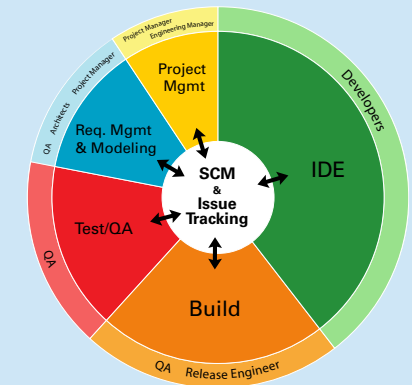
### AccuBridge Support Matrix

<http://www.accurev.com/absm>

## Best-of-Breed Application Lifecycle Management

Your SCM process, especially when tightly integrated with issue tracking, impacts the entire development organization, touching each of the core functional areas that represent your application lifecycle. From requirements through development through the build and testing processes, your SCM tool is the central repository for change and auditability throughout software engineering.

SCM represents far more than version control: a process-centric SCM solution becomes a core governance mechanism for maintaining traceability throughout your globally distributed organization, across parallel development projects, supporting multiple and complex processes. AccuRev fuses process and change management to right-sized proportions for effective software development.



## Why Streams?

Streams form the architectural foundation for AccuRev in order to solve the fundamental problems associated with traditional file-based architectures, especially branching and merging operations. While streams are analogous to a combination of branches and process workflow (typically in a separate tool) in legacy systems, they are far more flexible and powerful, enabling unencumbered branching and merging operations. Today, streams, not files, must be the first-class objects in order to support advanced application development. Streams understand their process-based relationships to other streams and include built-in inheritance, whereas branches do neither.

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# AccuRev

AccuRev Inc., 10 Maguire Road, Lexington, MA 02421

Phone: 800-383-8170 | Email: [sales@accurev.com](mailto:sales@accurev.com) | [www.accurev.com](http://www.accurev.com)