Deployment Automation

Deliver high-quality, valuable software in an efficient, fast and reliable manner

Application Deployment Is Challenging

Increasing application complexity, the growing volume and frequency of application changes, and the need to deploy and release across multiple environments and infrastructures (physical, virtual, and cloud) are causing application failures, bottlenecks, and delays. Development and IT Operations struggle with the challenges of deploying and releasing application changes from development to production – reliably, on time, and with quality.

Existing manual and semi-automated approaches are uncoordinated, time-consuming, prone to error, and do not scale – draining both labor and budget resources.

Drag-and-Drop Deployment Automation

Serena Deployment Automation streamlines development deployments and releases into production by providing process automation that orchestrates complex deployments across all of your enterprise environments. The drag-and-drop graphical process editor makes it easy to create and visualize the end-to-end deployment process. Reusable process templates allow you to save and reuse component processes and properties, making the setup of new deployment processes very quick.
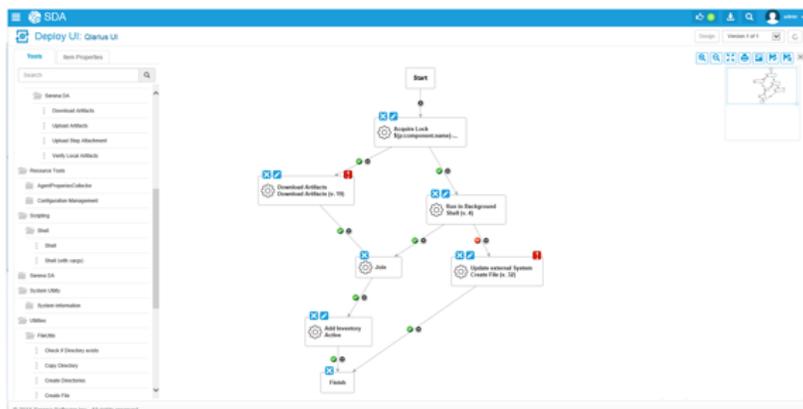

Figure 1. Serena's drag-and-drop graphical process editor

DEPLOYMENT AUTOMATION

Benefits

- Simplify, standardize, and automate the deployment of the most complex multitier applications across all of your environments
- Seamlessly deploy and maintain applications across heterogeneous, distributed physical, virtual, and cloud servers
- Track all deployment activities automatically
- Cut the time and cost of managing deployments by up to 90%

Features

- Easy to use graphical editor for process and deployment automation
- Mobile app that manages deployments on the go
- Model-based deployments through application snapshots
- Artifact repository providing secure storage and traceability
- Plug-in architecture with out-of-the-box support for the major application environments
- Seamless integration to third-party tools: SCCM, build and release, QA, help desk, and ticketing systems
- Full visibility, out-of-the-box audit and compliance reports to achieve internal and industry regulatory compliance
- Role-based security, approvals, and notification support

Out of the box, Serena Deployment Automation supports a plug-in architecture that provides integration with common development and build repositories, applications servers, as well as many common processes, allowing you to replace many of your existing scripts and manual processes. The plug-in architecture allows you to provide your own plug-ins as well. With dozens of plug-ins and integrations with popular tools, no programming is required.

Built-in Artifact and Deployment Pipeline Management

Serena Deployment Automation includes a deployment artifact repository that provides secure and tamperproof storage. It tracks artifact versions as they change and maintains an archive for each artifact. All versions are stored with traceability to their release details. Associations between repository files and components are built-in and automatic.

A deployment pipeline is a sequenced set of environments where an application process request is propagated. Deployment pipelines and associated environments are securely managed by Serena Deployment Automation. These resources have roles, permissions, and approvals to ensure that there are controls over who can deploy to what environment. Environment templates let you build on the environment's specific configuration. This allows you to have properties that are environment dependent, which enables seamless automated deployments across test and production environments.
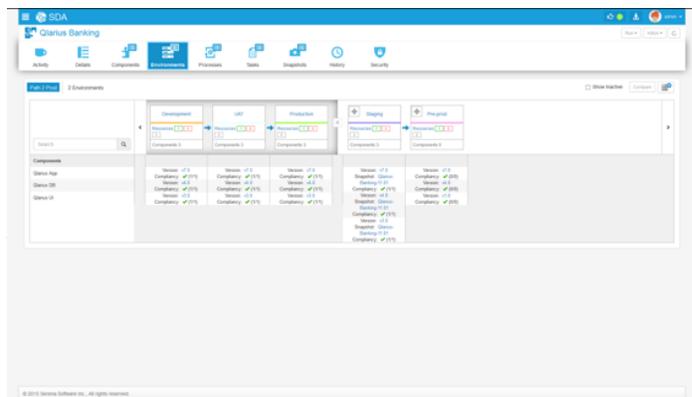

Figure 2. Application deployment pipeline

Once deployed, Serena Deployment Automation provides an inventory that shows when and what applications and components have been deployed to which environments. It also enables you to create model-based deployments through application snapshots. A snapshot is a set of specific component versions that captures the application's current state. Snapshots can be used to compare, deploy, and roll back releases quickly and accurately.

Take a look at how Serena Deployment Automation can dramatically improve the quality, speed, reliability, and cost of your deployments.

SERENA™

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Serena Software provides Orchestrated application development and release management solutions to the Global 2000. Our 2,500 active enterprise customers, including a majority of the Fortune 100, have made Serena the largest independent Application Lifecycle Management (ALM) vendor and the only one that orchestrates DevOps, the processes that bring together application development and operations. Headquartered in Silicon Valley, Serena is a portfolio company of HGGC, a leading middle market private equity firm.