



# DEVOPS SERVICES BRIEF

## Improving software delivery for continuous value and competitive advantage.

DevOps is more than a set of processes that coordinate to unify development teams and processes to complement software development. For many, it allows enterprises to create and improve products at a faster pace than traditional software development methods – delivering continuous value to customers and increasing competitive advantage.

Coquina's approach to DevOps Services is the combination of practices and tools designed to increase an organization's ability to deliver applications and services faster than traditional software development processes. This speed enables organizations to better serve their customers and compete more effectively in the market. We do this by removing the barriers between traditionally siloed teams, development and operations.

Under our DevOps model, development and operations teams work together across the entire software application life cycle, from development and test through deployment to operations – delivering stability, reliability and cost-efficiency of DevOps Services.

Because DevOps is practiced across different roles in an organization, we work closely with key stakeholders within each team to ensure close collaboration. In most cases, DevOps roles include development, IT, operations, security, and support.



## THE DEVOPS DEVELOPMENT PROCESS

Another important aspect inherent in the DevOps development process is the delivery pipeline. It covers a wide range of operational activities, from software development to monitoring and resolving issues. When assessing the DevOps pipeline, we focus on continuous development and testing, and emphasizes 4 areas for review and improvement:



### Source Code Control

Getting new versions of the system delivered and in a timely manner.



### Build & Test Automation

Correcting any quality issues that are found with the new version.



### Release Automation

Automating and connecting tasks that are performed by several teams.



### Deploy and Monitor

Using version control to deploy the new version to the production environment.

## BENEFITS ACHIEVED WITH COQUINA'S DEVOPS SERVICES

The need for DevOps is getting more acute as companies see that they need to adopt a whole new set of practices, tools, and processes needed for business agility and efficiency. Though it's not an easy fix to all efficiency problems, Coquina can help organizations adopt DevOps practices and tools that will contribute to the competitiveness of the organization. Here are some of the key advantages we can help realize.

**Speed.** Allows organizations to move at the velocity needed to innovate faster, adapt to changing markets better, and become more efficient at driving business results.

**Rapid delivery.** Increases the pace of releases, make improvements to products faster and build competitive advantage.

**Reliability.** Continuous integration and continuous delivery can ensure the quality of application updates and infrastructure changes are applied. A more reliable delivery and frequent delivery will result in an optimum experience for end users.

**Increased Efficiency.** A well-planned DevOps environment can be created using automated processes allowing it to handle the rapid growth of the product, varying workloads, and changing needs over time.

**Reduce Costs.** DevOps initiatives not only drive innovations that increase business value but they also save costs of maintenance and upgrades eliminating unnecessary capital expenditure and lowering project complexity and budget overruns.

**Improved Collaboration & Communication.** Developers and operations teams collaborate closely, share responsibilities, and combine their workflows. This reduces inefficiencies and saves time.

**Dedicated Teams instead of Silos.** Formerly siloed departments can now talk to each other without a long time-lag between one part of the organization and another, increasing exposure and transparency for improved productivity and less disruption.

**Security.** Adopt a DevOps model without sacrificing security by using automated, integrated security testing tools.

## Summary

Having considered the meaning of DevOps, the primary goals, advantages and expected challenges, components of the development process, and success stories, we can say with certainty that there's no longer any doubt why DevOps is important. Benefits of DevOps can bring consistent improvements in maintaining software quality, scale and predictability, reduce the cost of designing, testing, writing and deploying software, and satisfy customer requirements faster. Coquina Systems can help organizations decide on the practices that will allow them to deliver value in the most innovative and cost-effective way.

