

# DevOps from Broadcom®

## Accelerate Innovation Velocity without Adding Risk

### Key Benefits

- **Eliminate testing roadblocks:** Reduce testing delays and simultaneously increase quality with industry-leading tools that embed quality throughout the software lifecycle, shifting left and right to dramatically improve DevOps adoption and quality.
- **Safely increase velocity:** Increase velocity through better DevOps automation that uses AI to monitor, orchestrate and optimize your entire CI/CD workflow.
- **Continuously improve with AI:** Add 360 degree visibility and insights so both IT and business leaders can make better decisions. Get real-time risk and quality assessments and actions to improve every aspect of the DevOps lifecycle.

### Overview

DevOps promised to break down enterprise silos and allow us to do more, faster, with lower risk. The reality is more complicated. While many enterprises adopted DevOps tools and methods, the majority still struggle with translating their investments into measurable outcomes of faster cycle times, improved quality, and increased innovation.

Built to address this challenge, DevOps from Broadcom® is a complete, planning-to-production solution for balancing speed and risk across the software delivery pipeline, allowing you to accelerate the flow of value while minimizing the risk and severity of critical issues.

### Business Challenges

When you go faster, quality can suffer. Yet quality is often viewed as a bottleneck to innovation and velocity. Executives and IT leaders often hear statements like, “we can release every day, but QA will take three weeks.” This slow response to market opportunity can limit your competitive advantage, but ignoring quality creates risks that can damage your brand, destroy customer loyalty, and cost millions to fix.

In a recent study, 78% of CEOs reported being unhappy with software delivery speed at their organizations, and development roles in DevOps teams are the ones tasked with improving this metric. At the same time, an almost equal number of CEOs say that software quality also needs to improve, and that reliability remains unpredictable.<sup>1</sup> This makes operations staff in DevOps teams risk averse. With limited visibility into the development pipeline, they often lack confidence in releases—which results in organizations choosing to compromise innovation in favor of stability.

### Solution Overview

How do you balance innovation and risk? To achieve successful DevOps outcomes, you need to balance velocity and risk with the following unparalleled combination of capabilities:

- **Streamlined CI/CD toolchain with an intelligent pipeline** – Eliminate wasted time and provide a single source of truth for all teams across the enterprise. Automate handoffs, speed up test cycles, and accelerate feedback loops with AI-driven test optimization. Provide visibility into release readiness, and effortlessly handle multiple and complex releases.

“Broadcom DevOps solutions are key for BT to unlock the potential of agile and DevOps. We’ve increased speed to market and quality of products delivered through different, and often dependent, delivery streams and methodologies.”

– Glyn Martin, Head of QA Transformation, BT

“This will help us improve the speed and quality of software delivery.”

– Patrick Meeks, IT Manager, Williams

## Solution Overview (con’t)

- **Continuous testing that shifts left and right** – Address perceived QA delays by adding an enterprise-ready, open-source-based testing solution directly to your pipeline. Eliminate common obstacles such as environment delays with integrated virtual services and on-demand test data. This enables early detection and quick remediation of defects, reduces development and testing cycle times, and enhances developer productivity.
- **AI-based insights that allow you to release with confidence** – Aggregate and analyze data from planning, coding, build and integration, testing, and production across systems and over time—all while assessing release health, tracking quality progression, identifying hot spots, and predicting release success. Gain a 360 degree view of release readiness and know what improvements to prioritize for the maximum flow of value.

## Critical Capabilities

DevOps from Broadcom is an AI-powered, modern and open platform that can augment, complement, or even replace components in your DevOps pipeline:

- **Agile planning and management** – DevOps from Broadcom includes Rally Software® to plan, prioritize, manage, track, and continuously improve work throughout the software lifecycle. Rally Software aligns work, teams, and business objectives to move the needle quickly on digital transformation. It offers complete visibility into progress, roadblocks and dependencies across multiple teams, programs and projects.
- **Automated, optimized test design and generation** – DevOps from Broadcom automatically creates and updates tests from product requirements to eliminate roadblocks, reduce effort, and improve quality.
- **The leader in shift-left, shift-right continuous testing** – Includes BlazeMeter Continuous Testing, the evolution of the industry’s top performance testing SaaS solution. Built on and with full support for open source, DevOps from Broadcom handles UI and functional testing, load testing, virtual services, test data management, API testing, and test automation—all embedded throughout the DevOps lifecycle.
- **AI-powered intelligent DevOps pipeline** – Turbocharge velocity and increase DevOps adoption with continuous quality for CI/CD architectures that constantly monitors, automates, and optimizes your workflow. Machine learning algorithms select, prioritize, and run tests based on the current pipeline state—eliminating hours from each cycle.
- **Predictive DevOps intelligence and 360 degree insight** – DevOps from Broadcom is powered by automation.ai—our open-source based AI platform that integrates both historical and real-time data from across the DevOps lifecycle to generate actionable insights. The platform aggregates data from planning, coding, build, integration, testing, and production. It analyzes the data to assess release health, quality progression and predict risks, empowering decision makers to release with confidence.

## BizOps from Broadcom

DevOps is a key part of BizOps from Broadcom that turns insights and business outcomes into quality software at speed. Our tools leverage Broadcom BizOps capabilities to supercharge your DevOps toolchain—helping you increase delivery speed without sacrificing quality.

Broadcom delivers AIOps, DevOps, and ValueOps solutions that deliver a BizOps framework that provide continuous feedback loops that align technology outputs to business outcomes.

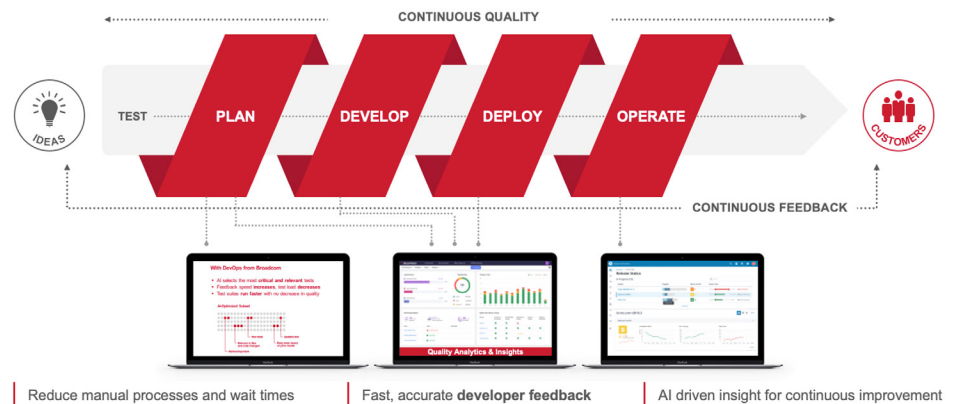
Solutions from Broadcom are powered by the Automation.ai software intelligence platform which harnesses the power of advanced AI, machine learning, and intelligent automation to transform massive volumes of enterprise data from disparate toolsets into actionable insights.

## Benefits

DevOps from Broadcom enables business and IT leaders to balance innovation and software quality at scale by helping you achieve the following goals:

- **Eliminate testing roadblocks** – Your legacy testing practices and tools are too slow, not agile, and block innovation at speed for both developers and testers. Reduce testing delays while simultaneously increasing quality with industry-leading tools including BlazeMeter Continuous Testing that embed quality throughout your software lifecycle, shifting left and right to dramatically improve DevOps adoption and quality.
- **Safely increase velocity** – Manual processes and dependencies in your DevOps pipeline make it tough for developers to safely sustain fast cycles. Increase velocity through better DevOps automation that uses AI to monitor, orchestrate and optimize your entire CI/CD workflow—improving throughput, increasing collaboration, and providing visibility into the status, content and business impact of every release.
- **Continuously improve with AI** – Lack of visibility across the pipeline, systems, and time leads to poor decision-making by both IT and business leaders. Add 360 degree visibility and insights so developers, operations teams, SREs, and business leaders can make better decisions. Powered by our automation.ai engine, we deliver real-time risk, quality assessments, and actions to improve every aspect of the DevOps lifecycle.

### Continuously Improve with DevOps



For more information, please visit: [broadcom.com/solutions/bizops/devops](https://broadcom.com/solutions/bizops/devops)

#### Reference

1. Harvard Business Review Analytic Services 2019, Competitive Advantage Through DevOps: Improving Speed, Quality, and Efficiency in the Digital World