

## Solution Brief

# DevOps Suite

## Code with Confidence

### Key Benefits

- Comprehensive AppDev tooling entitlements: Everything z/OS application developers and DevOps engineers need to enable and automate AppDev processes using modern and/or traditional tooling
- Common, next-gen skill sets: Enable Development and Operations teams to engage the mainframe as easily as other platforms with less specialization
- Application understanding: Ensure developers are able to confidently make application changes even when mentors are not available or have retired
- Agility and productivity: Increase the velocity of production-ready code through the intelligent application of DevOps automation
- In-place stability: Adopt popular tools and practices without disrupting existing workflows or service commitments
- Long-term vitality: By adopting modern tools and practices, teams ensure mainframe applications continue to drive maximum enterprise value
- Consumption licensing: Mainframe Consumption Licensing (MCL), a value-based model, provides increased clarity, predictability and flexibility

### Critical Differentiators

Standardizing on hybrid cloud tools and practices offers a fast track to overcome staffing and productivity challenges. Guiding principles underpin this strategy:

- Use proven, widely-accepted hybrid practices and tools inclusive of z/OS applications
- Self-service automation wherever possible
- Flexible, friction-free adoption
- Turbocharge workflows with GenAI
- Security and compliance remain job #1

### Overview

Demand for new levels of business agility, combined with an urgent need to attract new engineering talent, has made modernization an imperative. The ideal path forward combines contemporary DevOps automation, a hybrid cloud developer experience (DevX), and powerful API enablement.

The Broadcom risk-managed approach enables z/OS application teams to adopt Visual Studio Code and Git, test automation frameworks, automated CI/CD pipelines, and more while also modernizing applications with robust API creation, orchestration, and optimization.

With the Broadcom® Mainframe Software DevOps Suite, teams complement their existing infrastructure with modern practices balancing productivity, quality, and speed without compromising the platform's rock-solid reliability and security—the best of both worlds. This, combined with new capabilities that facilitate application understanding, gives them the confidence to move quickly to meet the demands of the business.

### Business Challenges

Accelerating digital transformation combined with experts leaving the workforce have teams seeking more enterprise-aligned processes with less specialization. For example, Git version control is the fabric of modern development so why not allow it for mainframe AppDev? Similarly, highly-extensible VS Code and DevOps pipelines drive developer productivity and code quality. And APIs enable application modernization across platforms and architectures. Navigating application code to understand where to make changes also presents unique challenges for z/OS developers, especially those lacking years of experience and unfamiliar with 3270 navigation.

The key is to open the platform to these contemporary standards while minimizing disruption to career mainframe developers whose productivity has been optimized around time-honored practices.

### Solution Overview

Broadcom Mainframe Software's DevOps Suite is a best-of-both-worlds solution enabling the adoption of hybrid cloud tools and practices in a risk-managed way. Rather than discarding the time-honored tools and practices, the DevOps Suite complements and extends them, enabling new talent to work alongside their career mainframe colleagues, each using their tools of choice. Broadcom recommends a pragmatic approach to modernization that minimizes disruption.

Broadcom Mainframe Software's DevOps Suite includes the following:

- Support for [Code4z](#) and [Zowe](#): Comprehensive 24x7 support for critical modernization enablers including the Code4z developer experience and the Zowe framework.
  - Offer a high-productivity developer platform with Code4z-extended VS Code and/or compatible cloud development environments like GitHub Codespaces
  - Automate work using the Zowe CLI, Explorer, Client SDKs, API Mediation Layer and Application Framework

## Key Features

- Open source and in house: Harness open- source tools like VS Code, Git, Jenkins with open source-enablers like the Zowe framework and Code4z
  - Developer tools
  - DevOps automation
- Freedom: Unlike prescriptive alternatives, modernize complex heterogeneous environments while addressing both immediate and longer-term needs
- Market-leading developer experience: Code4z offers all the tools a z/OS application developer needs to do their job, from build to test to deploy, with a focus on enabling newer developers to quickly understand critical application code bases.
- Git with Bridge for Git and/or Team Build: Multiple adoption paths for Hybrid Git and Git-native workflows
- API enablement: Create JavaScript/JSON-based integration APIs for CICS apps and reduce costly inefficiencies in existing integrations
- Hybrid cloud ready: With Zowe at its core, connect to your enterprise DevOps toolchains
- Enterprise-grade support: Comprehensive 24x7 support for key modernization technologies from a trusted mainframe partner

### About Broadcom Mainframe Software

The Broadcom Mainframe Software Division empowers customers to amplify the value of their mainframe investments. Our commitment to partnership is grounded in delivering to customers greater success with the platform. It starts with embracing open technologies in ways that unite the mainframe and hybrid cloud environments. Our leading DevOps, AIOps, Security, Infrastructure, and Data Management software solutions and innovative value programs go beyond code to unlock the platform's full potential.

- Code4z Assistant (beta): Provide your LLM code assistant of choice with context from [Endevor](#)<sup>®</sup>. Quickly understand what code is doing to gain the confidence needed to make changes and understand the impacts.
- Code4z App Analyzer (beta): Visualize how your application works with a big-picture, deterministic view of how different programs and data interact with each other, built from static code analysis.
- [Endevor](#), [Bridge for Git](#), [Team Build](#): Comprehensive version control, build and ship capabilities with the full range of Endevor components enabling mainframe-native, Git-native, and hybrid models to coexist. With the DevOps Suite, the adoption of Git is low risk, with tools addressing every stage of the journey.
- Code4z Testing Tools:
  - Speed test file editing and data creation for sequential files and databases with file management and data manipulation capabilities with the Code4z Mainframe Data Editor, powered by [File Master™ Plus](#).
  - Enable developers to more quickly and easily identify and correct errors in batch and CICS programs with the powerful Code4z Mainframe Debugger backed by [InterTest™](#).
  - Equip teams with critical, comprehensive abend information for both test and production environments with fault management using the Code4z Abend Analyzer powered by [SymDump](#)<sup>®</sup>.
- Code4z App Modernization with [HB.js](#): Risk-managed approach to API creation, orchestration, and optimization as well as API-driven testing.
  - Create efficient, low-risk integrations with CICS applications in a non-disruptive way.
  - Reduce inefficiencies in CICS application integrations by up to 95%.
  - Create end-to-end application tests using APIs and minimize test automation maintenance.

## Included Products

- Code4z
- Code4z Assistant (beta)
- Code4z App Analyzer (beta)
- Team Build
- HB.js
- Endevor Plus
- Endevor Automated Configuration
- Endevor Footprint Synchronization
- Endevor Quick Edit
- Endevor Parallel Development
- Endevor Extended Processors
- Endevor Integration for the Natural Environment
- Endevor Bridge for Git
- File Master Plus
- File Master Plus for DB2
- File Master Plus for IMS
- InterTest Batch
- InterTest for CICS
- SymDump Batch
- SymDump for CICS



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