

DevOps Suite

Risk-Managed Modernization: Freedom and Stability

Key Benefits

- **Common, next-gen skill sets:** Enable Development and Operations teams to engage the mainframe as easily as other platforms with less specialization.
- **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.
- **Application vitality:** With non-disruptive APIs, teams drive new levels of enterprise value from mainframe portfolio applications.
- **Consumption licensing:** Mainframe Consumption Licensing (MCL), a value-based model, provides increased clarity, predictability, and flexibility.

Critical Differentiators

Our strategic vision and commitment are to the Open-first approach because it drives common, enterprise-wide experiences:

- Mainframe as *EASY* to use and to automate as any other platform.
- *OPEN* solutions drive far greater value than closed, proprietary ones.
- *COMMUNITY* collaboration is the key to the long-term vitality of the platform.
- *FREEDOM* of choice empowers teams while minimizing disruption.

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.

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.

The Broadcom risk-managed approach enables mainframe 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 capabilities.

Business Challenges

Accelerating digital transformation, combined with experts aging out of the workforce, have teams seeking more enterprise-aligned processes with less specialization. For example, Git version control is the fabric of modern development; why not leverage it for mainframe app development? Similarly, highly-extensible VS Code and DevOps pipelines drive developer productivity and code quality, and APIs enable application modernization across platforms and architectures.

The key is to open the platform to these modern ways of working while minimizing disruption to career mainframe developers, whose productivity has been optimized around time-honored practices.

Solution

Risk management is a top priority for most mainframe teams, so Broadcom recommends a pragmatic approach to modernization that minimizes disruption. The Broadcom Mainframe Software DevOps Suite is a best-of-both-worlds solution that enables the adoption of hybrid cloud tools and practices in a risk-managed way. Rather than discarding time-honored tools and practices, the DevOps Suite complements them, enabling new hires to work alongside their career mainframe colleagues, each using their tools of choice.

The DevOps Suite includes the following:

- **Endevor[®], Bridge for Git, Team Build:** Comprehensive version control, build and deploy capabilities, with the full range of Endevor components enabling mainframe-native, Git-native, and hybrid models. With the DevOps Suite, the adoption of Git is low-risk with a wide range of tools addressing every stage of the journey.

Key Features

- **Open source and in-house:** Harness opens source tools like VS Code, Git, and Jenkins with open source-enablers like the Zowe framework, and Code4z.
- **Freedom:** Unlike prescriptive alternatives, modernize complex heterogeneous environments while addressing both immediate and longer-term needs.
- **Compliance:** Secure the entire software supply chain using common enterprise SBOM standards.
- **Enterprise-grade support:** Comprehensive 24x7 support for key modernization technologies from a trusted mainframe partner.
- **Git with Team Build:** Multiple adoption paths for Git-native workflows.
- **API enablement:** Create JavaScript/JSON-based integration APIs for CICS applications and reduce costly inefficiencies in existing integrations.
- **Hybrid cloud-ready:** Connect to your enterprise DevOps toolchains using Zowe and Zowe-conformant tools.

- **File Master™ Plus, InterTest™, and SymDump®** testing tools:
 - Speed test file editing and data creation for sequential files and databases with file management and data manipulation capabilities.
 - Enable developers to more quickly and easily identify and correct errors in batch and CICS programs with powerful debugging.
 - Equip teams with critical, comprehensive abend information for both test and production environments with fault management.
- Application modernization with **HostBridge® JavaScript Engine** and **Hostbridge Transaction Analytics Connector:**
 - A risk-managed approach to API creation, orchestration, and optimization.
 - Create efficient, low-risk integrations with CICS applications without application changes.
 - Reduce inefficiencies in CICS application integrations by up to 95%.
- Support for **Code4z, Zowe, and Test4z:**
 - Comprehensive 24x7 support for critical modernization enablers including the Zowe framework, Code4z and proprietary Test4z services.
 - Automate using the Zowe CLI, Explorer, Client SDKs, API Mediation Layer and Application Framework.
 - Offer a high-productivity developer platform with Code4z-extended VS Code and compatible cloud environments like GitHub Codespaces.
 - Eliminate manual testing while increasing coverage with Test4z-powered automation frameworks.

Included Products

- Endeavor Plus
- Endeavor Automated Configuration
- Endeavor Footprint Synchronization
- Endeavor Quick Edit
- Endeavor Parallel Development
- Endeavor Extended Processors
- Endeavor Integration for the Natural Environment
- Endeavor Integrations for Enterprise DevOps
- Brightside
- File Master Plus
- File Master Plus for DB2
- File Master Plus for IMS
- InterTest Batch
- InterTest for CICS
- SymDump Batch
- SymDump for CICS
- HostBridge JavaScript Engine
- HostBridge Transaction Analytics Connector

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.