

# HostBridge® – Integration Products for System z

## Web Presentation, Application/Data Integration, SOA, Cloud

HostBridge® is a complete XML/Web services integration solution for IBM System z and CICS®. Enterprises worldwide use HostBridge to do more with their mainframe – extend data access to many more employees and customers, transform and present legacy applications through rich Web interfaces for today's user, and integrate anything mainframe with anything distributed – from BPM, CRM, ERP, and other enterprise systems to the latest SOA or cloud. HostBridge is high-performance, high-fidelity mainframe integration.

### Mainframe Integration

HostBridge integrates the mainframe with other enterprise systems. To achieve this, we exploit the best tools and technologies that System z and CICS have to offer and adhere rigorously to industry standards for system interoperability. HostBridge implementations typically meet one of four needs.

### Web Presentation

Web presentation of mainframe assets bridges two worlds – today's user, who works on the Web, and high-value assets that reside on the mainframe. If your employees use the mainframe to run business operations, your suppliers or other partners require real-time access to mainframe data and application logic, or your customers demand self-service interaction with personal records and accounts, you're in good company. Banks, insurance providers, manufacturers, government agencies, and many others turn to HostBridge for fast, flexible, secure mainframe Web-enablement.

### Data Integration

Data resources are at the heart of the modern business enterprise. In complex environments, integrating them drives process efficiency and economy. HostBridge Direct Data Access modules together with standards-based XML/Web services enable organizations to integrate relational and non-relational mainframe resources – DB2, VSAM, DL/I, Datacom – with virtually any distributed data asset. HostBridge supports direct access to mainframe data resources as part of any Web services-, XML-, or script-based integration process.

### Application Integration

For many organizations, mainframe applications and associated business processes represent decades of investment. As an application integration or modernization engine, HostBridge extends the life and value of legacy applications – and eliminates the high cost of reinventing what already works. HostBridge supports a wide range of CICS and IMS applications and delivers their data and business logic as XML/Web services. HostBridge customers integrate applications to achieve data consistency across systems, consolidate business logic and gain process efficiencies, and merge disparate applications in efficient, productive new composite applications.

### SOA/Cloud

Web services are in the HostBridge DNA. Customers use HostBridge XML automation and JavaScript-based Process Automation to create Web services that integrate mainframe data and business logic with enterprise SOAs and the latest clouds. We support all industry-standard services approaches – SOAP/WSDL, REST, POX, etc. – as well as IFX, ACORD XML, and other industry-specific standards. Whether you need tactical Web services delivering ROI in 90 days or strategic mainframe integration with an enterprise SOA, our value proposition is the same – transform mainframe resources as flexible, reusable Web services for any services architecture.

### DO MORE WITH YOUR MAINFRAME

Whatever your integration need, HostBridge will help you do more with your mainframe and increase returns on your most trusted system investment. Refuel your revenue engine.



# HostBridge XML/Web Services Software

HostBridge is a complete solution for integrating System z and CICS via XML/Web services with any distributed system – other business applications, Web applications, SOAs, and clouds. HostBridge is modular in design, allowing you to choose components that meet your specific needs.

## Application Access

BMS  
3270  
COBOL  
PL/I  
Assembly  
COMMAREA  
TS-Native  
CA Ideal  
CA ADS/IDMS  
CA GenerOL  
CA Telon  
IMS DC  
Fidelity/Alltel  
NATURAL/ADATABASE  
CSC Vantage

## Data Access

DB2  
VSAM  
DL/I (IMS)  
Datacom

## Middleware Architectures

.NET  
J2EE  
ESB  
SOA

## Enterprise Servers

IBM WebSphere  
Microsoft Windows Server  
Microsoft BizTalk Server  
Oracle Application Server  
Oracle Integration Server  
TIBCO ActiveEnterprise  
Others

## HostBridge Base: XML Automation

The HostBridge Base product auto-converts outbound mainframe data to integration-ready XML. Inbound, it converts XML to mainframe formats. HostBridge exploits the Link3270 Bridge interface to interact with CICS data before presentation logic is applied, utilizing screen and field names as metadata to control system interactions and remote display (and avoid the pitfalls of screen scraping). Mainframe-resident HostBridge delivers high-performance, highly reliable integration.

## HostBridge Process Automation Engine: Web Services/Scripting

The HostBridge Process Automation Engine is our Web services/scripting facility rebuilt for v6 on an ECMAScript Edition 3/JavaScript 1.8 code base. It can be used to reference any mainframe data source for any type of integration. It also solves one of the toughest CICS integration challenges – orchestrating, automating, and integrating complex CICS transaction micro flows and delivering them as a single, reusable Web service with the highest-fidelity reproduction of source applications.

## HostBridge for zIIP: zIIP-Enabled Integration/SOA Workloads

HostBridge for zIIP (HBzIIP), introduced in HB v6.5, is HostBridge executing on the mainframe as an Enclave SRB. HBzIIP enables organizations to shift significant portions of HostBridge integration and SOA workloads – and all of the scripting/ Web services written with HostBridge – from the general purpose processor to the zIIP. Depending on the scope of integrations, customers can lower processing costs and mainframe TCO significantly while maintaining – or in many cases increasing – their high performance levels.

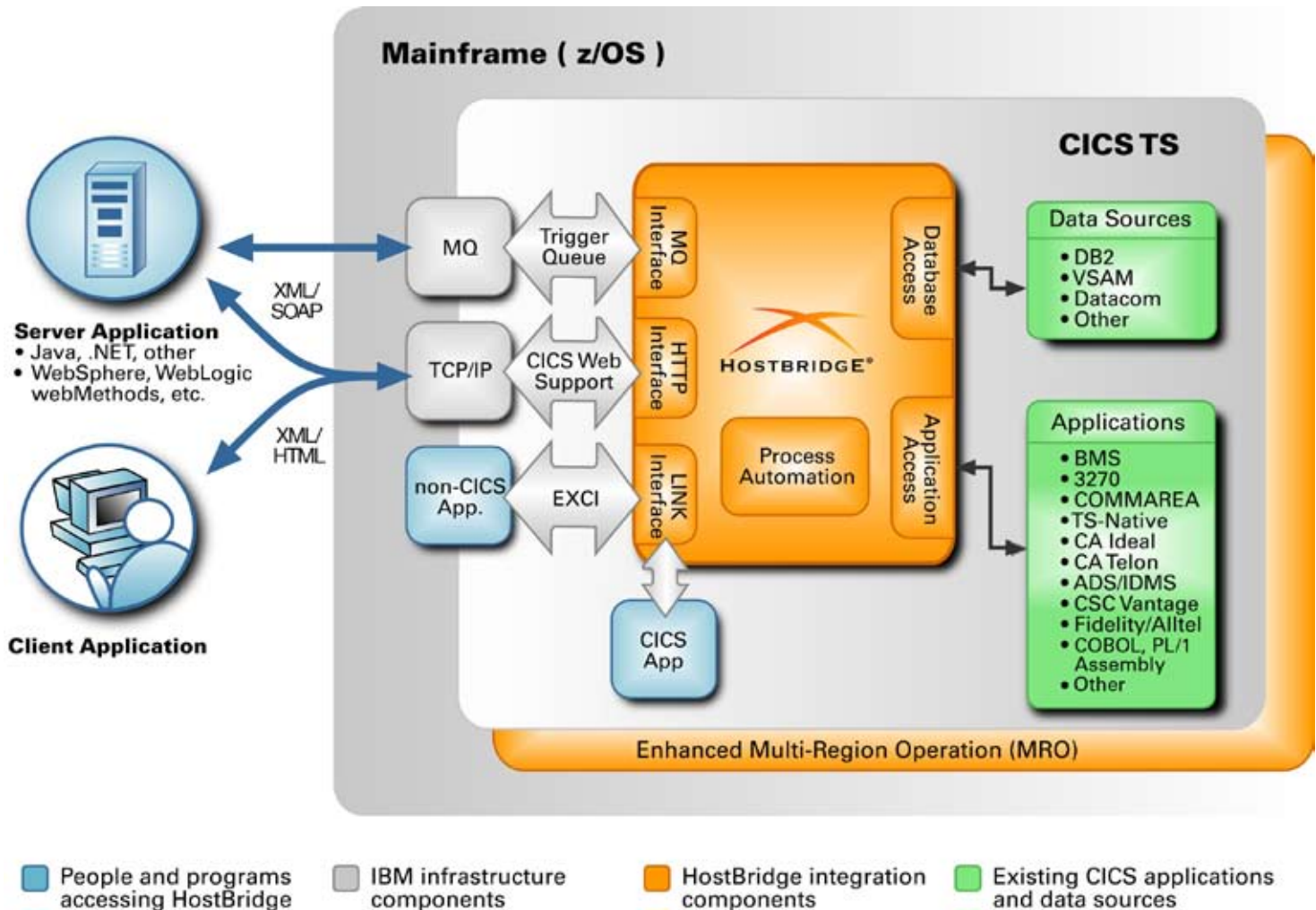
## HostBridge Modules & Connectors

HostBridge modules support integration of most CICS applications, including CA application types, industry-specific applications such as Fidelity/ Alltel and CSC Vantage, and many custom applications. Direct Data Access modules integrate DB2, VSAM, DL/I, and Datacom. Specialty connectors enable integration with leading BPM, ERP, and other specialized applications/systems.

## HostBridge Eclipse IDE

The HostBridge Eclipse IDE plugs into any Eclipse development tool, including IBM Rational Developer for System z and CICS Explorer. The HB Eclipse IDE includes CICS Transaction Explorer, which utilizes HostBridge XML to exactly replicate CICS application screens within the development interface. Developers will find it easy to navigate through actual CICS screens and orchestrate transactions as reusable, high-fidelity Web services.

# HostBridge Integration Architecture



## HostBridge WIRE: Multi-Mode Mainframe Web Presentation

HostBridge WIRE, our Web Interface Rules Engine, is a .NET development/runtime engine for rapidly Web-enabling mainframe resources. WIRE Web-presents mainframe applications and data in three modes, from classic “green screen” to advanced Web 2.0-style. Customers use WIRE to meet the needs of a diverse workforce and evolve employees to richer, more functional composite Web interfaces and mashups.

## HOSTBRIDGE TECHNOLOGY

provides software products that integrate mainframe data and applications with other enterprise applications, Web applications, SOAs, and clouds. HostBridge and its partners, including IBM, CA, and Oracle, help enterprises take a quantum leap in integration capability and gain new returns on critical investments.



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## Benefits

Engage with HostBridge and you'll hear us talk about high performance, high fidelity, integration flexibility, industry standards, and rapid development and deployment. Here's what we mean.

**PERFORMANCE.** HostBridge runs on the mainframe, and performs as a mainframe application. Also, HostBridge uniquely orchestrates/automates complex transaction processes in a single Web service. A customer who replaced a middle-tier screen scraper with HostBridge is now orchestrating 130 transactions as one service, and has reduced response time from 30-45 seconds to 1.5 seconds.

**RELIABILITY.** While many integration products rigidly "map" mainframe output to a screen display or integration framework, which can lead to integration "breakage" when applications change, HostBridge uses screen and field names to navigate applications and as metadata to control interactions with distributed systems. The result is total customer confidence that source data and business logic will always reach their intended endpoints.

**FIDELITY.** With our auto-generation of XML, both for integration purposes and within our IDE, and our orchestration of the most complex transaction processes as a uniquely fine-grained script or Web service, HostBridge is unparalleled in its ability to reproduce mainframe data and business logic with near-perfect fidelity to the original.

## Customers

HostBridge customers include the largest privately held securities firm in the world, the largest dental insurance carrier in the U.S., two of the world's largest defense contractors, and many more like these.

**BANKING/FINANCE.** The largest credit union in the world depends on HostBridge to present its Fidelity banking apps and other CICS applications, as well as VSAM and DB2 data, to 7,000 employees and 3 million members worldwide. HostBridge delivers high volumes of mainframe data and business logic via the company web site, to all locations using a Universal Agent Desktop client, and to ATMs in all 24 time zones.

**INSURANCE.** A leading Swiss health insurer uses HostBridge to integrate CA Datacom data and CICS application logic into an eHealth Community Cloud. The Cloud offers platform, software, and data services to its varied users. After initial rollout, the Cloud will be available nationally to thousands of health care professionals, health insurance companies, and millions of Swiss residents.

## FLEXIBILITY/INDUSTRY STANDARDS.

HostBridge supports a wide range of mainframe applications, from BMS, 3270, COBOL, COMMAREA, CA, and IMS, to Fidelity/Alltel, NATURAL/ADATABASE, and CSC Vantage. We support all leading data types: DB2, VSAM, DL/I, and Datacom. And we make mainframe-distributed integration real by our devotion to industry standards – HTTP, XML, SOAP, REST, and JavaScript, to name a few. HostBridge integrates anything mainframe with anything distributed.

## RAPID DEVELOPMENT AND DEPLOYMENT.

Our XML automation, Eclipse IDE, and JavaScript tooling combine to make mainframe integration fast and easy. Years ago, we standardized on JavaScript as our scripting/Web services technology. Thanks to its inherent power and flexibility, and ECMA oversight, JavaScript has matured into a proven server-side integration tool. More developers know JavaScript, it's easier to learn and use, and it plays well in the mainframe and distributed worlds. For HostBridge customers, the result is that development timeframes are measured in days, and tactical HostBridge services solutions can go into production in a few months.

**MANUFACTURING.** A top international auto maker uses HostBridge RESTful services to integrate a CICS lease management application, including VSAM data files, with a Siebel CRM system. By enabling customer service reps to interact with CICS from within Siebel, HostBridge helps the auto maker consolidate data processing, streamline customer interactions, and boost customer satisfaction.

**REAL INTEGRATION.** HostBridge has achieved similar results for System z and CICS users in telecommunications, energy, high tech, government, education, and many other sectors. Over the years, we have earned a reputation for doing the hard stuff. Many of our most loyal customers have called us after trying other solutions and hitting the wall.

We love those calls, because we have never failed.