

# System z: The premier platform for enterprise modernization



## Enterprise modernization delivers benefits every step of the way

Modern enterprise computing is a place where business processes span architectures—where applications have a single interface across silos, where heterogeneous applications are managed as a homogeneous environment, and where people work better together because the IT infrastructure is aligned.

It's a smart place to be. Now how do you get there?

In today's world of massive and complex systems, you need a plan. While modernization can provide exponential improvement in both IT and business capabilities, it also requires optimization of elements across the systems.

Enterprise modernization puts you on the path to taking advantage of today's and tomorrow's instrumented, interconnected and intelligent world. It gives you the power to measure conditions, provide interaction for people and systems, and dynamically respond to business change.

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*“When we evaluated the different solutions on the market, we discovered that Rational HATS would not only enable us to create a more user-friendly interface for Eurosys—it would also be able to integrate our policy management application and provide a seamless user experience between the two systems.”*

—Tim Bennett, Project Manager, Marsh

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## Enterprise Modernization on System z

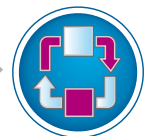
Modernize enterprise computing to **leverage** your IT investments.



Give your enterprise processes the speed and ease of **automation**.



Gain real-time **insight** into your business events.



Enable **dynamic process management** for your line of business.

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An approach to modernization in which you leverage your existing investments and extend them to add new capabilities allows you to become more responsive, agile and competitive.

Taking steps to modernization that build on your current IBM System z®, IBM POWER®, and x86 environment means you'll realize value faster and with greater economies than a rip-and-replace solution.

Ultimately the journey to modernization not only can change the way IT manages and delivers solutions, it can enhance all your operations—from systems to business to people.

### **Build value with solutions deployed on top of your System z investments**

Many organizations face IT roadblocks as they strive to remain competitive. Silos of information don't support processes that must reach across the enterprise. Point solutions don't deliver the quality of service now necessary for mission-critical enterprise-scope functions. Development teams are so busy maintaining existing applications that they can't take on new initiatives. Additionally, the cost and risk inherent in starting over with new solutions make rip-and-replace approaches an unacceptable alternative.

However, many organizations already have a core component they need for modernizing their environment. Their IBM System z mainframes provide the ideal platform for critical business workloads, deliver unrivalled integration across the platform, and incorporate technologies that accelerate deployment of new capabilities.

IBM has made many investments in the System z platform, integrating hardware and software with modern and open interfaces, allow organizations to reinvent their enterprise operations—with rapid time to value—and enable organizations to deploy new business capabilities that leverage their existing assets, skills and infrastructure.

### **Support extended business processes with an open, services-based model**

The System z platform today includes modern technologies that enable organizations to utilize existing elements of their application infrastructure in new ways. The integration of high-performance and cost-effective Java™ and XML processing provides a robust environment based on service-oriented architecture (SOA) that can meet today's business requirements without undoing your organization's investments in mission-critical business applications.

The IBM SMART SOA® approach provides a set of guiding principles based on IBM's experience with thousands of successful SOA deployments. With SMART SOA, IT organizations can create an SOA foundation that allows them to modernize the enterprise without changing application logic, turning siloed and static assets across the infrastructure into valuable components that once again address operational and business needs.

## Leverage investments to build value and expand opportunities

Leveraging a SMART SOA solution to service-enable and web-enable legacy applications for reuse can eliminate complexity and improve quality. It can help to dramatically enhance efficiency by promoting reuse of core assets already operating in the organization's environment. And it can speed time to market with a faster and more collaborative application development and deployment life cycle management.

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### IBM solutions for asset reuse

- Rational® Host Access Transformation Services
  - Rational Developer for System z, and Unit Test Feature
  - Rational Business Developer
  - Rational Migration Extensions
  - Rational Asset Analyzer
  - WebSphere® Application Server for z/OS®
  - WebSphere Enterprise Service Bus
  - WebSphere Extended Deployment Compute Grid
  - WebSphere Service Registry and Repository for z/OS
  - CICS® Transaction Server
  - IMS™
  - DB2® for z/OS
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When an organization links business processes, applications and information, it can respond quickly to change, improve team collaboration, and boost developer efficiency. The organization can enhance governance with a consolidated infrastructure. And it can cut costs with simplified application delivery and management.

Extending services to the web can help a business reach today's connected customers by providing access to business applications without constraint of time, location or device type. At the same time, web-based services allow the organization to consume external services in support of its own business processes.

## Automate processes to extract new value for the enterprise

With significant portions of IT budgets dedicated to maintaining existing investments, most organizations spend little time or energy proactively managing their application portfolio. Continual inventory, assessment and evaluation of the portfolio, however, are central to modernizing enterprise computing.

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### IBM solutions for automation

- Rational System Architect
  - Rational Focal Point
  - Rational Asset Analyzer
  - Rational Team Concert for System z
  - Rational Build Forge
  - System z Solution Edition for Application Development
  - CICS Transaction Server
  - WebSphere Business Modeler Advanced
  - WebSphere Process Server
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Automation can help. With it, an organization can better manage operations for capturing and correlating events that represent actionable patterns. Organizations can streamline complex business transactions to improve customer satisfaction and improve revenue.

The steps to automation begin with creating a blueprint of the existing portfolio's current state, identifying and documenting the business processes that technology supports, defining key transactions that can be service enabled, and designing solutions to connect these services to deliver new business value.

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## Gather business information and turn it into real-time insight

A clear and concise real-time view of processes and information is important to any business, but it is of limited value unless the organization can put the information into context and transform it into action. A complete picture—with the ability to sharpen the focus quickly and easily—can empower the organization to improve operations, capitalize on emerging opportunities and mitigate future risks.

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### IBM solutions for business insight

- WebSphere Application Server for z/OS
- WebSphere Business Monitor
- WebSphere Business Events
- WebSphere Portal Enable for z/OS
- IBM Cognos
- CICS Transaction Server
- IMS
- DB2 for z/OS

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IBM provides complete solutions for System z that build upon clients' existing investments and deliver rapid and accurate insight into business. Solutions that help users detect, evaluate, correlate and respond to events are delivered in a unified environment that encourages business and IT professionals to work together.

## Empower business users with dynamic management of processes

In today's fast-moving world of business there is often no time to wait for traditional development teams to modify business rules or policies buried in the applications that run the business. In the modernized computing environment line-of-business personnel can dynamically adjust application business rules to rapidly adapt to changing market conditions.

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### IBM solutions for dynamic process management

- WebSphere Process Server for z/OS
- WebSphere ILOG® Business Rule Management Systems
- WebSphere Application Server for z/OS
- WebSphere Business Monitor
- WebSphere Business Events
- WebSphere Portal Enable for z/OS
- CICS Transaction Server
- IMS
- DB2 for z/OS

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IBM solutions for System z empower nontechnical staff with tools to enhance process efficiency and capture new revenue, all while leveraging existing investments. Business users can dynamically change the outcome of transactions and events by changing business rules in real time, triggering new transactions, events and analytics to capture new value. These enhanced capabilities for creating, working with and administering workflow empower line-of-business users—those who are closest to your customers—to accelerate productivity and drive new revenue opportunities.

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### IBM zEnterprise System takes a bold new step in addressing the challenges of enterprise computing

For the first time, it will be possible to deploy a truly integrated hardware platform that spans the enterprise, encompassing mainframe, UNIX® and x86 technologies. Integrating the management of these heterogeneous environments is the new IBM zEnterprise Unified Resource Manager (zManager). zManager provides unified approach to provisioning, workload management, and problem solving and resolution for mission-critical workloads that span heterogeneous resources.

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## For more information

To learn more about modernization of your enterprise environment, please contact your IBM representative or IBM Business Partner, or visit: [ibm.com/systems/z](http://ibm.com/systems/z)

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June 2010  
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