

Transaction management tools  
To support your IT objectives



## IBM CICS tools.

Stay ahead of the e-business curve with CICS-optimizing tools for IBM @server zSeries

## **IBM CICS tools: Simplify CICS management for a more effective on demand e-business**

In today's business, everything happens at an accelerated pace. Customer needs change. The marketplace evolves. And IT executives are given a mandate: Keep up. Anticipate and rapidly respond to customer needs and market changes. Streamline and integrate core applications and systems to maximize technology resources. And do all this in a highly secure environment.

In your quest to become an agile e-business in this around-the-clock, around-the-world business environment, you're probably looking to:

- Ensure privacy, security and business continuity
- Maximize IT utilization
- Integrate existing business processes and applications
- Leverage information for business decision making
- Exploit technology to support business strategy

It can be a daunting challenge. And that is why so many e-business-minded IT professionals are evolving to e-business

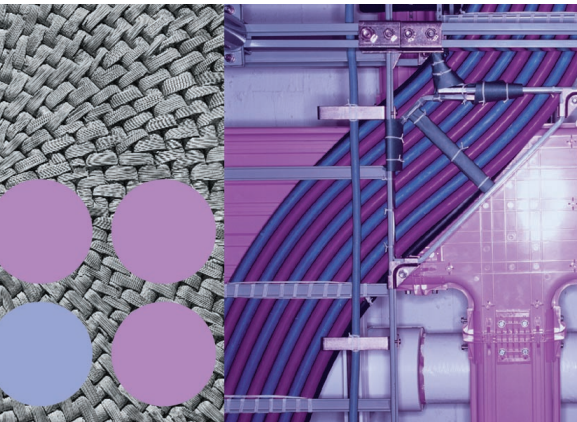
on demand™—that is, the ability to respond to marketplace changes as rapidly as those changes occur, in real time.

To facilitate that evolution, they're turning to IBM...and discovering high-performance solutions to stay ahead of the e-business curve. One of those solutions: a powerful suite of tools for managing IBM CICS® subsystems on IBM @server® zSeries®.

### **Simplify management of your CICS subsystems**

To conduct an effective on demand business, your applications must run 24 hours a day, 365 days a year. They must scale thousands of interactive users and process millions—and sometimes billions—of transactions. To do that, you need to maintain a high level of performance and availability of your IBM CICS Transaction Server systems. You need the suite of IBM CICS tools.

The suite of IBM CICS tools helps you easily control your critical CICS applications and systems availability and performance, as well as extend your applications into the e-business world.



*An on demand e-business means having an IT infrastructure that lets your business respond to marketplace changes in real time.*

IBM CICS tools enable you to leverage your investment in the IBM @server zSeries and exploit all the functions in CICS Transaction Server. They can help improve the efficiency and resource utilization of your CICS systems by offering:

- Faster return on investment
- Enhanced availability and integrity of your mission-critical CICS applications
- Opportunity to improve response time to your customers
- Timely support of new releases of CICS Transaction Server
- A user interface that is very easy to learn and use

#### **A snapshot of IBM CICS tools for zSeries**

To help you operate your CICS systems at peak level, IBM provides tools in four key areas:

- *Performance Management* tools help you meet service-level commitments, improve systems availability and plan capacity to meet the challenges of an on demand environment.
- *Application Reuse* tools help you to cost-effectively maintain and enhance the functionality of your CICS systems and extend your applications into the e-business world.

*A leading car manufacturer in the U.K. is using CICS Performance Monitor and CICS Performance Analyzer to ensure high availability of its manufacturing support system based on CICS Transaction Server.*

- *Operational Efficiency* tools help resource utilization and end-user productivity.
- *Resource Recovery* tools help you avoid costly outages caused by VSAM data loss.

#### **Performance Management tools**

*IBM CICS Performance Monitor for z/OS*

While running complex, mixed-workload environments and planning for e-business on demand, you're pressured to reduce the risk of missing service-level commitments. CICS Performance Monitor helps you manage this risk by automating real-time and historical performance monitoring and troubleshooting for CICS Transaction Server on the z/OS® and OS/390® operating systems.

This tool gives you an easy-to-use interface to define and modify thresholds, monitor their status, display alerts and their recent histories, collect and query historical task data using extensive filtering capabilities, perform

real-time problem determination, and make changes to key systems and resource parameters. It helps you to:

- Analyze CICS systems performance and efficiency
- Monitor an individual application or transaction
- Obtain detailed task performance data, including use of resources
- Collect historical task data to identify symptoms leading to an event
- Evaluate the impact of an application on other applications and systems
- Identify the cause of potential problems before they occur
- Determine tuning requirements for CICS to avoid problems

CICS Performance Monitor is built on standard APIs and proven CICS systems management technologies. By providing Single System Image access to the resources in all CICS regions, it helps accelerate faster problem identification, improve CICS systems availability and integrity, and reduce systems management costs.



### *IBM CICS Performance Analyzer for z/OS*

Capacity planning is critical for meeting the peak performance needed to support e-business evolution. CICS Performance Analyzer is an offline analysis tool that provides a wide range of systems management and measurement reports on all aspects of CICS systems. These reports can be easily tailored to your specific requirements.

The software's powerful reporting capabilities and flexible historical database facilities make it an essential tool to help in trend analysis and capacity planning, as well as help ensure optimal resource utilization within your CICS systems.

CICS Performance Analyzer helps you to:

- Reduce the cost of tuning and capacity planning analysis
- Take a proactive approach to CICS systems tuning
- Provide detailed performance bottleneck analysis
- Uncover trends leading to reduced CICS performance or even outages
- Enable capacity planning for optimal performance
- Identify the potential to improve application design and review performance before applications go into production

### **Application Reuse tools**

#### *IBM CICS Business Event Publisher for MQSeries®*

CICS Business Event Publisher allows for rapid integration and extension of mainframe CICS applications and data. It lets you create IBM WebSphere® MQ messages based on business process events in legacy applications and data without requiring code changes. And it accomplishes this while simultaneously adding value to screen scrapers, bridges and message brokers.

CICS Business Event Publisher can help you:

- Reduce implementation time
- Lower development and testing costs
- Increase the value from legacy applications
- Increase reliability by eliminating changes to code

It also offers a new approach for enabling legacy applications to participate in Business Integration environments. CICS Business Event Publisher generates user-defined

IBM WebSphere MQ messages based on events in existing CICS applications. The message generation is transparent to the application program so code changes are not needed by the existing application. An easy-to-use graphical user interface lets you specify events that generate messages, as well as the nature and destination of those messages.

#### *IBM CICS Interdependency Analyzer for z/OS*

CICS Interdependency Analyzer is a run-time tool that helps you understand resource usage in a CICS system and interdependencies among CICS resources. It gathers data by address space, aggregates it in an IBM DB2® Universal Database™, then provides a comprehensive interface to query the aggregated data online. The result is that you gain a better understanding of:

- Which programs are used by a transaction
- Which data is read or updated by a transaction
- What is the sequence of transactions within an application
- What transactions run in which regions or address spaces

This information can help you maintain, enhance and reuse your business applications, take advantage of the workload balancing capabilities of CICS Transaction Server for increased availability and build more flexible CICS systems to increase productivity.

#### **Operational Efficiency tools**

##### *IBM Session Manager for z/OS*

Session Manager gives VTAM® and TCP/IP users a highly secure and user-friendly way to access multiple z/OS and OS/390 systems from a single

3270 terminal. It offers a wide range of facilities, including:

- A single menu for access to all applications
- Multiple sessions displayed simultaneously on one workstation
- Screen contents displayed at multiple locations
- A common user interface for all TCP/IP and VTAM applications





Session Manager helps increase user productivity by providing quick access to a variety of business applications from distributed or workstation programs. It helps increase security and reduce the cost and effort associated with network administration.

#### *IBM CICS Online Transmission Time Optimizer for z/OS*

CICS Online Transmission Time Optimizer helps increase usage of existing network resources and devices and improve end-user response time by:

- Increasing network utilization and printer speed by optimizing 3270 data streams
- Examining and dynamically compressing outgoing data streams
- Eliminating repetitive characters
- Ensuring that only modified data is sent to the terminals

The application provides extensive optimization controls and maintains statistics to show how effectively optimization is being performed. Operating transparently to users and applications, it is easy to install, customize and use.

#### **Resource Recovery tools**

##### *IBM CICS VSAM Recovery*

CICS VSAM Recovery can help reduce the effects of catastrophic failure by being ready to repair any damage quickly. Building on the integrity of your CICS solution, this simple yet powerful tool is a fully automated solution for

recovering lost VSAM data. It manages the data recovery process by:

- Recovering VSAM data from updates made by CICS and by batch applications
- Automatically determining backups and journals to recover lost or damaged data sets
- Making the recovery process faster and easier

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#### **zSeries: Designed for on demand business**

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IBM @server zSeries is ideal for on demand business solutions, providing an operating environment that is:

- *Integrated and open*, embracing standards for ease of integration
- *Virtualized*, allowing systems to dynamically recombine their relationships with each other and leverage information across applications to meet business needs
- *Autonomic*, delivering self-managing, self-healing, self-protecting, self-optimizing and self-configuring capabilities so complex applications and configurations can increase productivity for IT staff
- *Resilient*, lending superior reliability, availability and security
- *Efficient*, sharing resources to enhance utilization and reduce energy, floor space, networking and administrative costs
- *Scalable*, accommodating up to 50 million transactions a day...or more
- *High performance*, providing a 64-bit architecture and a balanced system design that is fast, consistent and predictable

**Count on the leader in integration, data management and security**

Recognized as the industry leader in integration, data management and security, IBM can help you respond to market changes more efficiently, more securely and more flexibly. The result: When customer needs and marketplace realities change, you can quickly adapt your business to the new environment.

IBM combines deep industry and business process expertise with market-leading technology.

IBM offers business and technology solutions that help increase productivity through improvements in IT efficiency.

IBM helps protect your existing infrastructure and ensure continuity of operations.

All of which enables you to focus on growing your business profitably and outperforming the competition.

**Your advisor for e-business on demand**

In IBM, you have an experienced advisor with a clear roadmap and strategy for evolving your enterprise to an on demand business. And with IBM CICS tools for zSeries, you can automate and help improve the efficiency and management of your CICS environment—smoothing the path to a successful on demand e-business.

To find out more about IBM CICS tools for zSeries, visit [ibm.com/software/zseries](http://ibm.com/software/zseries) or [ibm.com/software/cics](http://ibm.com/software/cics).





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