



IBM® System z™ tools for CICS



Performance Management for CICS Transaction Gateway



CICS Tools: your path to Performance, Understanding & Control

With new support in CICS Transaction Gateway for z/OS (CICS TG), CICS Performance Analyzer and OMEGAMON XE for CICS TG for z/OS, you can build an even more comprehensive understanding of CICS system performance that can alert you to performance-related problems, help you to diagnose them and provide performance trend information for the capacity management process.

IBM CICS® Performance Analyzer for z/OS (CICS PA) V2.1 is a powerful off-line reporting tool that analyzes the System Management Facilities (SMF) records created by the CICS Monitoring Facility (CMF), CICS Statistics, CICS Server Statistics, as well as SMF data from the related subsystems (DB2 and WebSphere® MQ®), to produce a wide range of reports and extracts that will help you tune and manage your CICS systems. CICS PA provides the level of detail and flexibility that can easily help find new ways to improve CICS system performance, lower maintenance costs, and strategically plan IT investments.

CICS PA V2.1 will deliver day 1 support (by the service channel) for the SMF 111 records generated on System z by CICS TG V7.1, providing its users with an even more comprehensive understanding of CICS system performance.

CICS Performance Analyzer is built to address the needs of everyone involved in CICS performance analysis, and CICS system tuning and planning capacity for future use, including those who build, manage, and deploy complex mainframe CICS applications.

IBM Tivoli OMEGAMON XE for CICS TG on z/OS provides real-time performance management, monitoring, and troubleshooting for CICS TG. IBM Tivoli OMEGAMON XE for CICS TG on z/OS can help manage the availability and performance of CICS Transaction Gateway V7 or higher, and the many thousands of transactions per second processed through it. It helps avoid costly downtime, or transaction performance degradation, and rapidly isolate and resolve problems that may arise.

IBM Tivoli OMEGAMON XE for CICS TG on z/OS monitors CTG connections and workload on the mainframe, providing the user with charts, alerts, advice, and automated scripts to increase productivity. Reports on CICS TG servers and gateway daemon resources help users determine how to allocate and size resources, like EXCI pipes, and the connection manager and worker thread pools. Transaction analysis reports show the types of transactions and success versus rolled-back percentage. Dynamic tables and graphs can be configured for a custom workspace to speed problem identification and resolution. As a true end-to-end solution, it integrates and correlates data from other performance monitors, including IBM Tivoli Composite Application Manager, IBM Tivoli Monitoring, and other Tivoli OMEGAMON monitors.

You can now use CICS PA in conjunction with OMEGAMON XE for CICS and OMEGAMON XE for CICS TG to understand the performance of new or changed CICS applications and to identify performance improvements following runtime analysis of the CICS TG for z/OS. This helps to get the most benefit from your CICS application investments with reduced risk.

You can download CICS PA V2.1 today for a free 90 day trial. Just visit the URL shown below and answer a few simple registration questions. Approval is immediate.

**CICS Performance Analyzer - Free Trial Code
Download now at**

<http://www.ibm.com/software/os/zseries/trials/cicstools/>



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Most IT organizations today experience conflicting pressures: the business units need more applications to move into new markets while the financial management looks for opportunities to cut costs. At the same time, governance and compliance requirements make you accountable for anything that may go wrong while changing demographics deplete you of essential System z skills. “Do more, with less. Be compliant - or else” - that’s the challenge in IT today.

IBM offers a suite of CICS Tools which can help you to modernize and transform existing CICS applications whether your goal is to:

- Increase your responsiveness to business requirements by modernizing your mainframe platform
- Develop and deploy new workloads to leverage the unique performance, availability, security, and cost benefits of System z
- Enable easier version-to-version upgrades - especially to CICS Transaction Server for z/OS V3
- Optimize management of your IT environment, reducing cost and complexity while improving IT governance and regulatory compliance

If all this sounds familiar to you, you may want to try out some of the other CICS Tools available for trial download:

- **CICS Performance Analyzer** - Comprehensive off-line performance reporting and analysis for diagnostics, tuning and capacity planning
- **CICS Configuration Manager** - Manage resource definitions in multiple CICS systems, from a single interface, with comprehensive reporting and optional change management control facilities
- **CICS Interdependency Analyzer** - Understand the relationships within your active application inventory for efficient maintenance, upgrades and help in building new applications
- **CICS Batch Application Control** - Simplify and automate management of resource allocation between online CICS and batch applications
- **CICS VSAM Recovery** - Automate recovery of lost or damaged CICS and batch VSAM data
- **CICS Online Transmission Time Optimizer** - Improve end-user productivity and increase network resources utilization through 3270 data stream optimization

For more information on these and other CICS Tools, visit: ibm.com/cics/tools

Other IBM System z tools for CICS developers

Application Performance Analyzer is an application performance monitor for CICS, IMS, WebSphere, DB2, and batch applications. It allows users to drill down to the CICS application source level to pinpoint performance bottlenecks with simplified access to multiple CICS regions via multi region operation (MRO).

Debug Tool Utilities and Advanced Functions (DT/UAF) is a source-level debugger which works in both CICS and non-CICS environments. DT/UAF helps application programmers examine, monitor, and control the execution of programs written in Language Environment-enabled Assembler, C, C++, COBOL, or PL/I on z/OS and OS/390 systems. A rich set of features such as variable monitoring and a comprehensive selection of break-points are provided to assist the user in their debugging.

Fault Analyzer is an ABEND analysis tool that works in both CICS and non-CICS environments. When an application ends abnormally, Fault Analyzer produces a report that identifies the line of code that caused the ABEND, formats the variables in use at the time of the ABEND, displays the terminal screen involved, and extracts the message and code details from the appropriate publications, allowing the developer to quickly identify the root cause. Fault Analyzer’s SDUMP processing can read and analyze a CICS region SDUMP.

File Manager for z/OS provides comprehensive, user-friendly tools for working with z/OS data sets (VSAM, QSAM and PDS), DB2 data, IMS data and CICS data. These tools include the familiar browse, edit, copy and print utilities found in ISPF, enhanced to meet the needs of application developers. File Manager also provides utilities which can be used to compare, update and transform data based on COBOL or PL/I record layouts

Rational Developer for System z (RDz) includes significant capabilities that help make CICS and other mainframe development, Web development, and integrated SOA based composite development faster and more efficient. The productivity of developers who use WDz to create, maintain, debug and deploy applications to the z/OS platform is further enhanced by integration with Debug Tool Utilities and Advanced Functions, Fault Analyzer and File Manager.

For more information on these and other System z Tools, visit: ibm.com/software/awdtools/deployment/



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