IBM®

IBM z/OS Tools

CICS and Problem Determination Tools

Competing effectively in today's business environment is about dynamically transforming your business to meet your customers' needs. With IBM® z/OS® Tools, you have an excellent foundation for success.

IBM CICS® Tools (CICS Tools) can help you to optimize your CICS resources and achieve greater capacity and improve the availability of your critical enterprise systems.

IBM Problem Determination Tools (PD Tools) have powerful functions and features to help you to modernize your existing z/OS applications and transform your System z® environment into a service-oriented architecture (SOA) infrastructure.
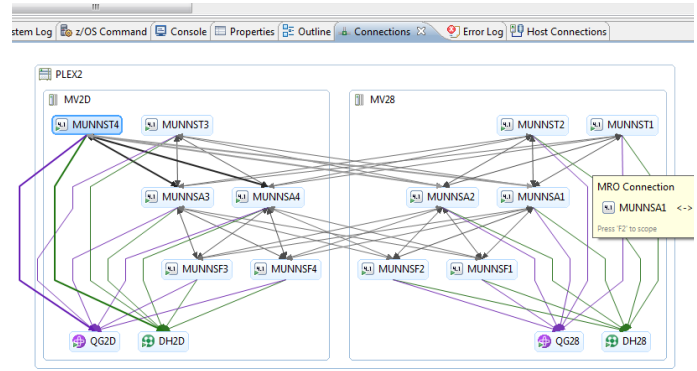
CICS Tools and PD Tools are industry leading DevOps tools to optimize, modernize, and diagnose z/OS and CICS applications, infrastructure, and data. Powerful automation capabilities can speed service delivery, improve standardization, and reduce risk, while rich discovery, advanced visualization, and comprehensive reporting provide the insight needed to ensure that your applications run smoothly and changes are efficient and reliable.

CICS Configuration Manager for z/OS

IBM CICS Configuration Manager for z/OS (CICS CM) provides definition support, as well as reporting and change-management facilities, which enable you to manage CICS resource definitions in CICS system definition data sets (CSDs) in your enterprise from a single point of control, and manipulate definitions seamlessly across CSD files and CICSPlex System Manager (CICSPlex SM) data repositories. It helps handle the complexities and potential problems in the administration and maintenance of resource definitions for CICS Transaction Server, across multiple CICS regions, offering comprehensive control and audit capabilities.

CICS Deployment Assistant for z/OS

IBM CICS Deployment Assistant for z/OS (CICS DA) helps you use the latest IBM CICS technology faster and easier than ever before. With CICS DA, you can discover, model, visualize, and deploy new and existing CICS regions, using automation and policy-driven advice built on your own knowledge and experience, and that of IBM.

Figure 1 CICS Deployment Assistant connections view

A plug-in for IBM CICS Explorer provides advanced visualization with tagging and filtering, letting you view, print, and manage your CICS infrastructure as you want to see it.

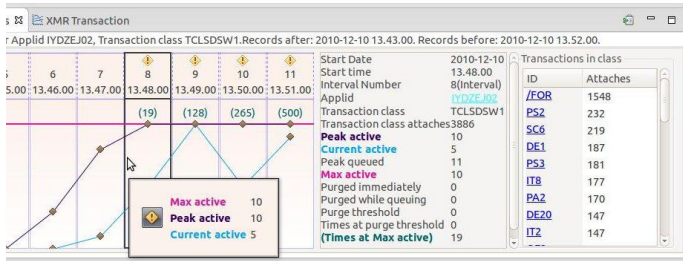## CICS Interdependency Analyzer for z/OS

CICS Interdependency Analyzer for z/OS (CICS IA) provides information that helps you to modernize CICS applications, to improve application efficiency, and minimize the risk associated with change. This runtime tool automates the detection of runtime relationships in your CICS system and records this data in a DB2 database. It enables you to analyze the collected information, build a relationship road map, and use this data in your daily operations. Information provided by CICS IA can help you improve the availability of your CICS applications, reduce the cost and increase the speed of CICS application maintenance.

CICS Performance Analyzer for z/OS

IBM CICS Performance Analyzer for z/OS (CICS PA) is a robust offline reporting tool that analyzes a variety of data to produce a wide range of reports and extracts that

help you tune and manage your CICS systems.

Data includes the System Management Facilities (SMF) records created by the CICS Monitoring Facility (CMF), CICS statistics, CICS server statistics, IBM DB2® and IBM MQ accounting records, and z/OS system logger. CICS PA provides comprehensive reports on all aspects of CICS systems, as well as historical database capabilities for trend analysis and capacity planning.

Figure 2 CICS Performance Analyzer statistics alert visualization

CICS Transaction Gateway

To help support an end-to-end business environment, IBM CICS Transaction Gateway (CICS TG) is a production-proven, high-performing, security-rich, and scalable CICS connector for mobile, JEE, and other client applications. CICS TG is available in three product options on a wide range of platforms including z/OS, and can be deployed in a number of different topologies.

New support for RESTful JSON client applications simplifies the mobile-enablement of CICS on all supported platforms.

CICS TG can be deployed with minimal changes to client systems and usually no changes to existing CICS applications, allowing rapid service-enablement of CICS applications.

CICS VSAM Recovery for z/OS

IBM CICS VSAM Recovery for z/OS is for organizations where the availability and integrity of VSAM data are vital. This tool enables users to automate the recovery of damaged or lost VSAM datasets (caused by catastrophic hardware failure, software failure, or human error), whether you are using them in a CICS, batch, or combined environment. The latest version increases the focus on automation and backup management. Users can automate the process of recovering a data set following a back-out failure in a CICS environment, as well as initiate a backup process using the panel interface.

CICS VR supports the replication of VSAM data for IBM GDPS® Active/Active continuous availability, enabling two data center sites to run the same applications and share the same data.
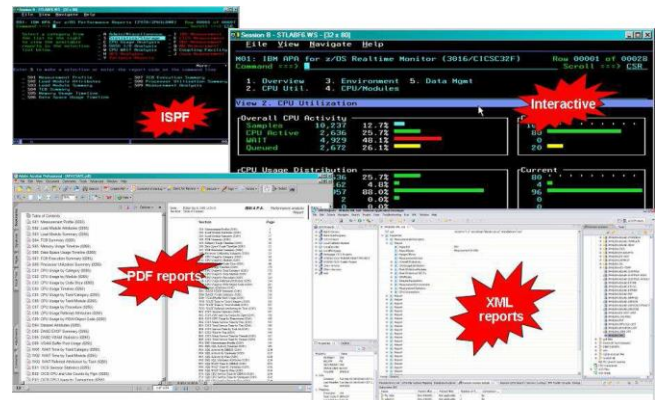
CICS VSAM Transparency for z/OS

IBM CICS VSAM Transparency for z/OS (CICS VT) can help you to migrate your valuable data from VSAM files to DB2 tables as your business requirements dictate, with no modification to your CICS and batch VSAM application programs and with only minimal changes to your system environment and JCL. By migrating to DB2, you can make your data available 24x7 to customers and suppliers to support real-time global operations — with the security-rich reliability and maintainability that DB2 offers.

IBM Application Performance Analyzer for z/OS

Application Performance Analyzer (APA) is an application performance measurement tool designed for use on IBM z/OS systems. The product's key function is to measure and report on how system resources are used by applications running in virtually any z/OS address space such as Time Sharing Option (TSO) and batch.

Figure 3 Application Performance Analyzer views and reports

APA can also analyze transactions running under an online subsystem such as IBM IMS™, IBM CICS, and WebSphere® Application Server, as well as DB2 stored procedures.

IBM Debug Tool for z/OS

Debug Tool (DT) is an interactive source-level debugging tool for compiled applications. It is a program testing and analysis aid that helps you examine, monitor, and control the execution of applications written in C, C++, COBOL, PL/I or assembler on a z/OS system. It provides debugging capability for applications running in a variety of environments, such as batch, TSO, CICS, IMS, DB2, DB2 stored procedures, and IBM z/OS UNIX® System Services.

IBM Fault Analyzer for z/OS

Fault Analyzer is a robust problem determination tool that helps you discover why applications fail. It helps you repair these failures quickly by gathering information about an application and its environment at the time of failure. You can also develop and test new and existing applications more productively, helping to reduce costs along the way. Fault Analyzer can be used with batch, CICS, DB2, IMS, Enterprise PL/I, Enterprise COBOL, and Java for z/OS systems

IBM File Manager for z/OS

Through its comprehensive, user-friendly tools, File Manager helps you work more efficiently with z/OS data sets, DB2 data, IMS data, MQ queues or CICS data resources. Extending the standard browse, edit, copy and print utilities of ISPF, File Manager delivers functionality that is designed to address the needs of application developers working with files containing structured data. Also, because the basic features of the File Manager editor and the ISPF/PDF editor are almost identical, you can take advantage of extra features without having to relearn fundamental skills. File Manager also integrates with Rational® Developer for System z.
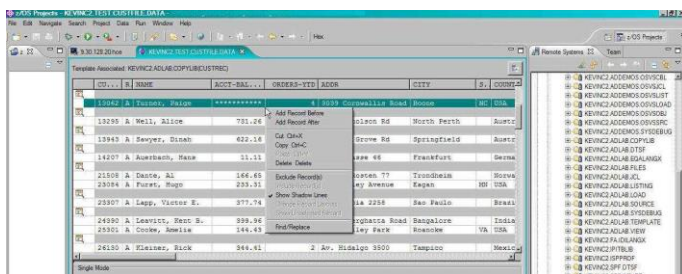

Figure 4 The File Manager workstation GUI interface helps make mainframe developers more productive

IBM Workload Simulator for z/OS and OS/390

Workload Simulator (WSIM) provides the ability to simulate terminals and the associated messages. It also lets the user alter message loads during a run. It can be used to generate a large volume of messages to evaluate the reliability and approximate performance characteristics of a network under expected operating conditions. Simply stated, anything that a real user can do at a terminal, WSIM can do faster, more reliably, and typically at less cost.

IBM Solution Packs

Solution Packs provide a convenient and more affordable way to purchase key products in the CICS and PD Tools families. Being able to purchase multiple products under a single Product Id can help to simplify client procurement processes.

The Solution Pack price represents a reduction in the aggregate price of the individual component products. When trading up, clients with active S&S (Subscription and Support) contracts can receive Value Unit credit for prior purchases.

The following Solution packs are available:

- IBM CICS Modernization Solution Pack for z/OS
- IBM CICS Optimization Solution Pack for z/OS
- IBM Problem Determination Solution Pack for z/OS
- IBM Problem Determination Testing Solution Pack for z/OS
- IBM Problem Determination Modernization Solution Pack for z/OS

Graphical user interfaces

IBM CICS Explorer® is the strategic development and management interface for CICS TS. It delivers a graphical workbench that integrates CICS runtime facilities with add-on capabilities provided by IBM tools and those from other vendors. CICS Explorer provides an easily extensible set of CICS views, data, and methods. CICS Explorer V5.2 fully supports the new features of CICS TS V5.2 and CICS Tools V5.2.

IBM Problem Determination Tools Studio (PD Tools Studio), and the individual product plug-ins, provide easy access through a graphical user interface (GUI) on the workstation to the power of the host PD Tools, The GUI provides a workstation alternative to the z/OS ISPF interface.

CICS Explorer and PD Tools Studio are both built on IBM Explorer for z/OS (z/OS Explorer), enabling their plug-ins to run within Rational Developer for System z, and IMS Enterprise Explorer, and IBM Data Studio.

With these interfaces, existing application developers and system programmers may experience productivity gains over the traditional "green screen" interface. The interface can also lower the learning curve for new z/OS developers, making them proficient quicker by providing an interface to the z/OS tool that is easier and more familiar for new hires to pick up and use.

Learn more

Full details of the hardware and software requirements for CICS can be found on each product's web page.

To learn more about IBM z/OS Tools and other products in the CICS portfolio contact your IBM representative or IBM Business Partner, or visit:

ibm.com/cics/tools

ibm.com/software/awdtools/deployment

ibm.com/software/htp/cics/ibmexplforzos

Experience the very best of the CICS portfolio - see it in action at:

ibm.com/cics/showcase