

# **CICS Test Drive**

# **Feel the Power**







## Preface

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# **CICS Performance Analyzer**

CICS Historical Analysis for solving today's business problems





# **CICS** Performance Analyzer

#### What does it do?

- ISPF Dialog to build, maintain and submit reports
- Extensive Tabular Reports and Graph Reports
- Create Historical Databases that include trend and capacity information
- Comprehensive Batch Reporting and Analysis from SMF data
- Online Statistics Reporting Capability

#### Benefits

- Improves tuning and capacity planning analysis
- Improve transaction response time
- Provides detailed performance bottleneck analysis
- Uncovers trends leading to poor CICS performance or even outages
- Helps plan capacity for optimal performance





# CICS Performance Analyzer for z/OS (CICS PA)

### **Key features**

- Comprehensive Performance Reporting and Analysis for CICS
- Including DB2, WebSphere MQ, and MVS System Logger
- Extensive Tabular Reports and Extract Data Sets
- Historical Database (HDB)
- Trending and Capacity Planning
- ISPF Dialog to build, maintain, and submit reports and extracts
- Comprehensive reporting of CICS Statistics data
- Ease of Use
- Threadsafe metrics like TCB use by transaction, dispatch and CPU time, number of TCB switches etc

## **CICS Support**

▶ CICS TS V2,V3, and V1.3

### **New in CICS PA V2.1**

- •CICS TS V3.2 support including:
  - Compressed SMF type 110 records
  - Higher precision (12-byte) clock
  - New and updated statistics data
- Extended integration with OMEGAMON XE for CICS
  - Report on 3<sup>rd</sup> party systems monitored by OMEGAMON (Adabas, CA-IDMS, CA-Datacom, Supra)
  - Report on Resource Limit Warnings
- New and updated sample reports
  - Transaction Profiling reports
  - Distribution reports
- Historical Reporting using SupportPac CP12

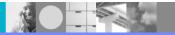






# What SMF Data does CICS PA use?

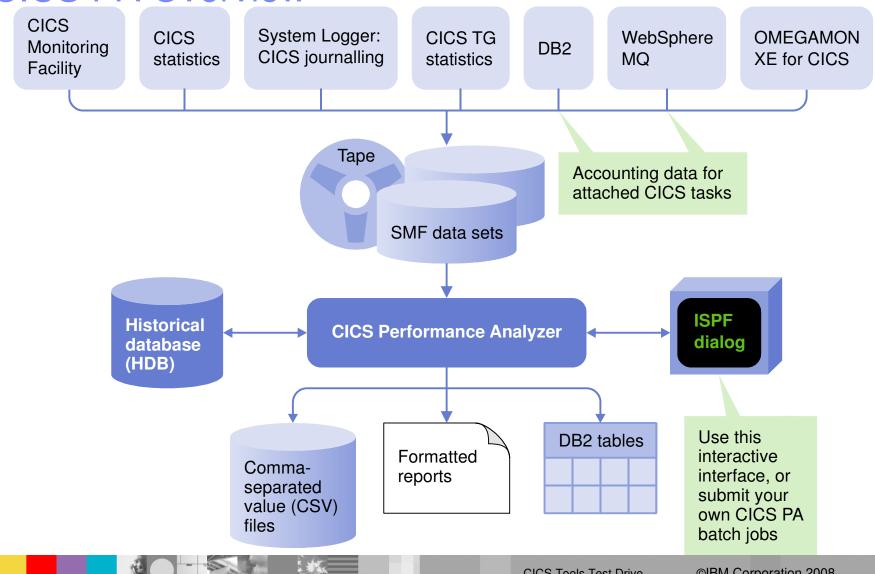
- Comprehensive Performance Reporting and Analysis for CICS
- CICS Monitoring Facility (CMF) data (SMF 110)
- CICS Statistics data (SMF 110)
- CICS Server Statistics data (SMF 110)
- DB2 Accounting records (SMF 101)
- WebSphere MQ Accounting records (SMF 116)
- z/OS System Logger records (SMF 88)
- Tivoli OMEGAMON XE for CICS on z/OS (SMF 112)
- CICS Transaction Gateway for z/OS V7.1. (SMF 111)







# **CICS PA Overview**





## CICS PA - Business values

- Plan capacity to reduce MIPS cost
  - Trend analysis for capacity planning
- Proactively analyze performance trends to reduce down time and increase customer satisfaction
  - Ensure quick response to performance issues identified by an online monitor
- Reduce cost of outages
  - Enables performance reviews before applications go into production
  - Identification of usage trends leading to reduced CICS performance or even outages
- Reduce risk of missing service level commitments
- Reduce time and cost of managing system performance and availability
  - CICS PA also complements the enterprise-wide historical performance capabilities of IBM Tivoli ® Decision Support for z/OS



# CICS Interdependency Analyzer

Understand Relationships in your CICS Environment





# CICS Interdependency Analyzer

#### What does it do?

- Real-time capture of CICS application calls (API)
- Query facility from both Windows / CICS / Batch
- Document application affinities to facilitate Dynamic Transaction Routing
- Identify application programs that are ThreadSafe / Open TCB
- Creates and updates CPSM affinities rules database

#### Benefits

- Eliminate manual documentation of application systems
- Quickly identify application scope
- Verify the application code via call path tracing
- Automatically maintains CPSM rules
- Helps you lower the total cost of ownership of your zSeries platform
- Makes it easier to maintain, enhance, modify, and redistribute your applications.



# CICS Interdependency Analyzer for z/OS (CICS IA)

### Key features

- Captures resource relationships
- Programs with potential affinities
- Run-time and batch reporting tool
- Relationship data loaded onto a DB2 database
- Query interface and sample queries provided for comprehensive analysis

## CICS Support

▶ CICS Transaction Server for z/OS, V2 and V3

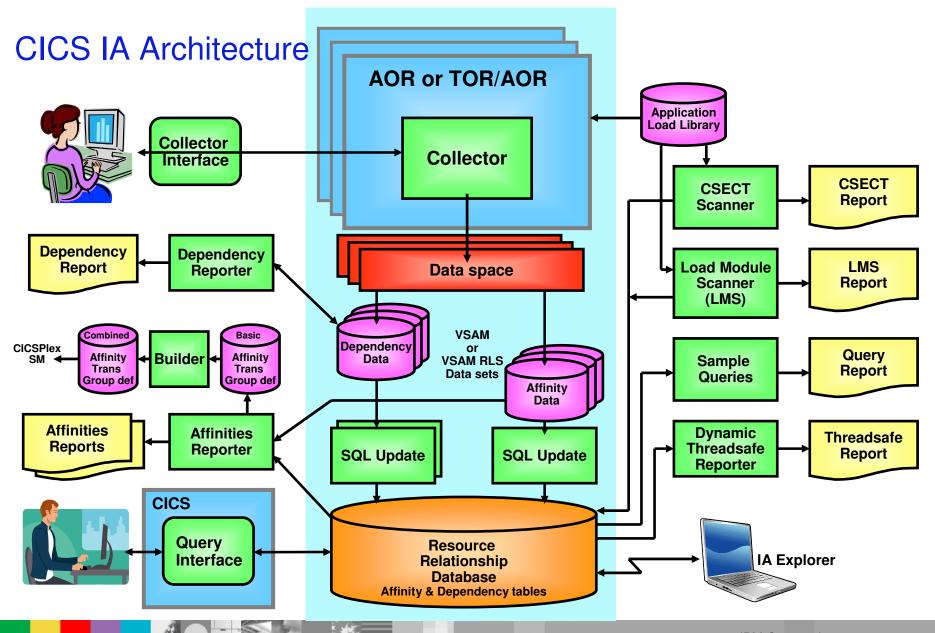
### **New in CICS IA V2.2**

- CICS TS V3.2 support
- CICS Version Migration Support
- Application performance support
- Thread safety, Affinities
- Web service support
  - Detect, Identify, Capture
- Intuitive new CICS IA Explorer
- Sample queries rich query editor
- Software AG Natural 4GL support
- Optimized database schema











# CICS IA – Business Value

## Understand active application inventory quickly and efficiently

- Understand cross-system applications and dependencies
- ▶ Know the resource topology within a particular CICS region
- Understand the where and how resources are used
- Know the last time a particular resource was used

### Maintain or enhance applications more quickly and efficiently

- Identify the scope of a change
- What resources that are affected directly and indirectly
  - Transactions, programs, data elements: files, queues, screens, ...
- What to change, what to build, what to test, what needs to be communicated to roles involved
- Look across boundaries, including shared data



# CICS Configuration Manager

A single point of control for CICS resource definitions across your enterprise





# **CICS Configuration Manager**

#### What does it do?

- Simplifies and automates the management of your CICS resources in both CSD and CPSM BAS environments
- Enables migration of CICS resources from different environments under a structured change control process
- ▶ Tracks resource history as well as provides back-out to previous change level
- Provides detailed reports of CICS resources

#### Benefits

- ▶ Helps reduce errors and abends related to incorrect resource changes
- Minimizes manual work by operators and system programmers
- Provides complete audit history of all CICS resource modifications
- ▶ Helps you lower the total cost of ownership of your zSeries platform



# CICS Configuration Manager for z/OS (CICS CM)

## Key features

- Create, update, delete, copy, replicate CICS resource definitions
- Change management through the life-cycle stages, e.g. development, test, production
- Create customized reports to identify redundant definitions, show resource relationships and change management history
- Audit, back-out and change authorization capabilities

## CICS Support

- ▶ CICS Transaction Server for z/OS, V2 and V3
- CICS Transaction Server for OS/390 V1.3

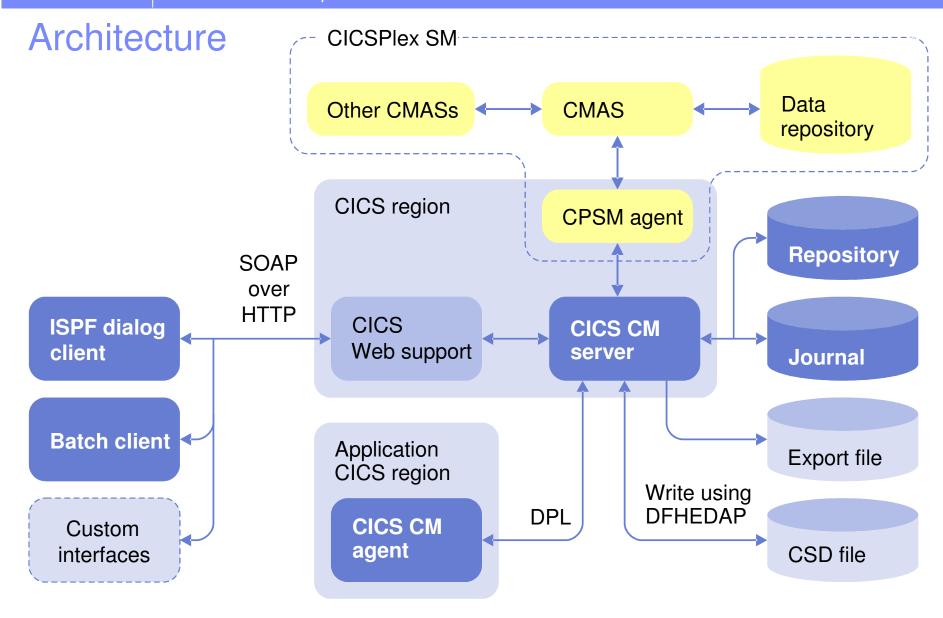
#### **New in CICS CM V1.2**

- CICS TS V3.2 support PTF
- Migration of resource definitions between partitioned environments
- Integration with change management solutions
- Mixed RLS and non-RLS CSDs
- Improved identification of orphaned recourses
- Improved CSD clean-up capabilities.
- Usability and reporting enhancements
- Coming soon
- Identification of resources updated outside of CICS CM













# **Business Values**

### Reduce CICS system administration overhead

- Single point of control (access) to all CICS resources
- Share responsibility between technical & application groups
- Extensive resource analysis capability (compare, search, history)
- Audit Trail of all resource modifications

### **Improve Speed of Implementation**

- Associate resource modifications to AD change package
- Build and reuse migration schemes
- Use transformation rules to modify attributes
- Automate repetitive change activities

### Reduce the chance of outages

- Enforce naming standards
- Less manual intervention
- Signoff for migrations
- Backout facility





## For more information

#### **Tools WEB sites**

- ▶ CICS tools, including library: www.ibm.com/cics/tools
- WebSphere zSeries tools: www.ibm.com/software/websphere/zadportal
- Try CICS tools for free for 60 days

www.ibm.com/software/os/zseries/trials/cicstools

### **Support Pacs**

CP12: CICS PA Historical Database Reporting www.ibm.com/support/docview.wss?uid=swg24011 321

### **Business Article**

▶ The Wall Street Journal, June 24, 2007. The Dinosaurs That Won't Die:

http://blogs.wsj.com/biztech/2007/07/24/the-dinosaurs-that-wont-die/

### Program numbers (licence):

5697-J23: CICS Interdependency Analyzer

5697-N40: CICS Performance Analyzer 5697-I78: CICS Configuration Manager

5655-P30: CICS VSAM Recovery

5697-176: CICS VSAM Transparency

5697-I94: CICS Batch Application Control

5655-K01: IBM Session Manager

5655-105: CICS OTTO



