

# Session 13157: Lunch and Learn: Live demo! New IBM CICS Tools and IBM Problem Determination Tools

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## Preface

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## **IBM Problem Determination Tools Version 12.1**



## Tools to address your z/OS Development or System Programming needs

#### What's new in PD Tools V12.1

- New IBM Problem Determination Tools Studio
   pre-packaged with plug-ins
- File Manager DB2 and CICS plug-in
- Initial Workload Simulator plug-in
- Enhanced integration and synergy amongst PD Tools, CICS Explorer and/or IMS Explorer taking advantage of newly announce common z/OS Explorer capabilities
- CICS TS 4.2, IMS V12, MQ 8.1 updates to ensure synchronization with latest subsystems
- Improved Java support in APA and FA

#### PD Tools provides ...

- Five tools addressing z/OS problem resolution needs - Debug Tool, Fault Analyzer, File Manager, Application Performance Analyzer and Workload Simulator
- Subsystem and language support traversing z/OS provided in a timely manner when subsystems and languages are updated
- Improved TCO with full function tools at competitive price





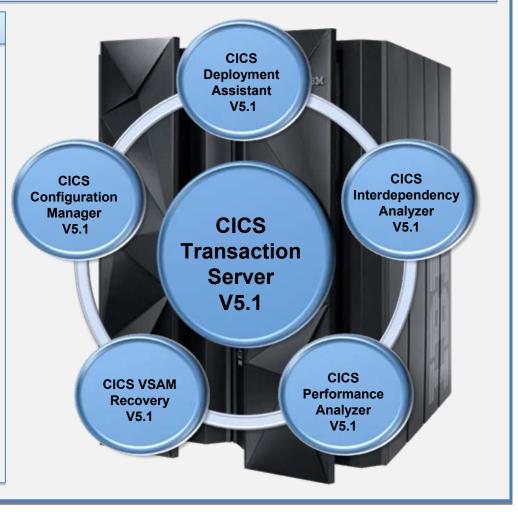


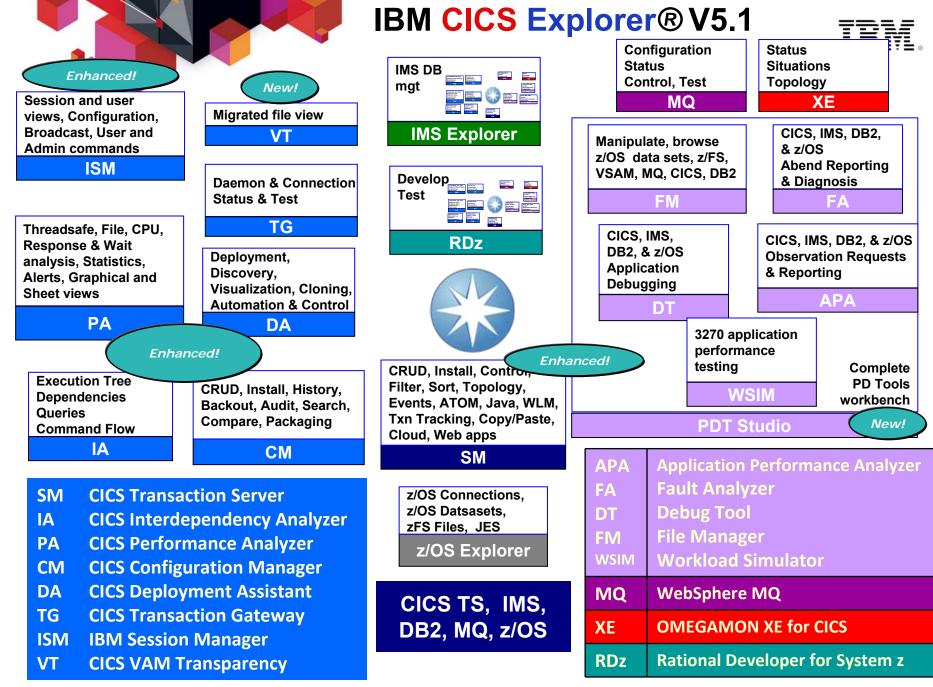


## Five core CICS Tools – Day one CICS TS V5.1 exploitation

Fully integrated with CICS TS & CICS Explorer

- •Discovery and visualization aids insight into application and platform dependencies
- •Automation speeds service delivery and ensures standardization and governance
- •Modern, integrated user interfaces lower skills barrier
- •Day-1 exploitation of CICS TS V5.1 new capabilities reduces time to value
- •Five core tools support and extend the CICS runtime





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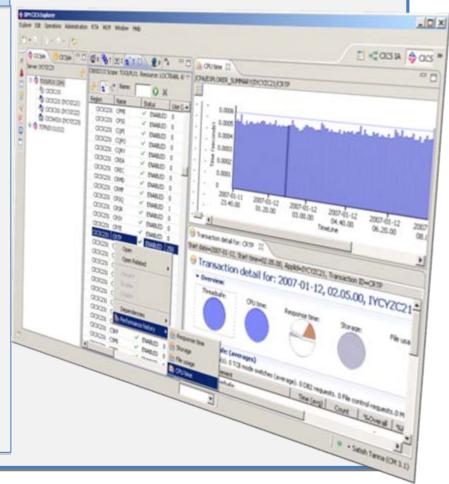


### Live Demonstration via CICS Explorer Using PD and CICS tools plug-ins

The General Insurance Application (GENAPP)

The general insurance application is a working COBOL application that you can use to try out different features of CICS.

- The general insurance application simulates transactions made by an insurance company to create and manage its customers and insurance policies.
- The application provides sample data and a 3270 interface for creating and inquiring on customers and policy information. Because the application is designed to simulate the flow of an application, some aspects of the application architecture do not use best practices.
- However, the application is designed to be extended to demonstrate other ways of accessing and transforming traditional applications that are best practices.
- GENAPP is available described in greater detail in the CICS V51 info-center and is also available as suportpac CB12.







# Lunch and Learn: Live demo! New IBM CICS Tools and IBM Problem Determination Tools Efficiently Support the z/OS Ecosystem

# **Product Descriptions and Sources of Information**

**CICS** Deployment Assistant for z/OS V5.1



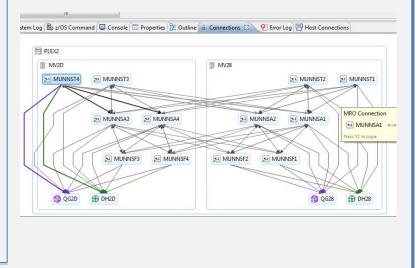
## CICS Discovery and Provisioning

What's new in CICS DA V5.1...

- Enriched discovery of over 30 entities
- Improved visualization with tagging and filtering
- Connections view with scoping
- Export model for external reporting
- CICS TS V5.1 upgrade cheat sheet
- Tagging and filtering of model elements
- New navigators
- Clone JCL improvements
- IPv6 support
- Virtual IP addressing support
- Serviceability enhancements

#### CICS DA enables you to...

- Visualize and manage your CICS topology
- Discover existing regions and sub-systems
- Automation creates new CICSplex
- Plexify and clone CICS regions
- Start and stop a CICS region







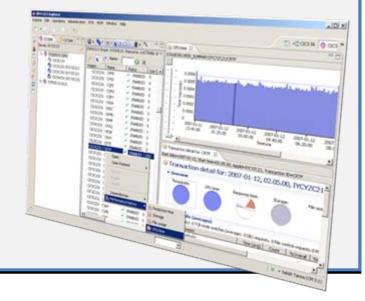
## Performance insight

#### What's new in CICS PA V5.1...

- CICS TS V5.1 support for new metrics
- Application, Platform, and Policy
- Plug-in enhancements:
  - Application centric view
  - Customizable sheet views
  - Suspend time reporting
  - Easy navigation to key reports and alerts
- SMF log stream support
- Batch statistics reporting for CICS TG
- Improved management of PA data loaded to DB2
- CPU totals on MQ reports
- SMF data processing performance improvements

#### CICS PA enables you to...

- Comprehensive Performance Reporting and Analysis for CICS including DB2, WebSphere MQ, and MVS System Logger
- Understand trends and develop capacity plans
- · View statistics and create statistical alerts







## Application Understanding

What's new in CICS IA V5.1...

• Support for CICS Transaction Server V5.1,

including enhanced business application analysis

- New threadsafe analysis plug-in view and report
- Improved installation and configuration
- DB2 data lifecycle management
- Native SQL language stored procedures
- Graphical visualization view of resources

#### CICS IA enables you to...

- · Identify threadsafe / non-threadsafe programs
- Isolate and remove affinities
- Speed CICSPlex® SM workload management
- Advanced CICS command flow analysis
- Highlight CICS web service candidates

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## Application Performance Analyzer for z/OS (APA) V12.1



## Pinpoint enterprise application bottlenecks

What's new in APA V12.1?	APA enables you to
<ul> <li>Enhanced plug-in for CICS Explorer</li> <li>Integration with z/OS Explorer credentials and connections</li> <li>Reduced memory requirement</li> <li>Improved CICS and DASD report accuracy</li> <li>Sticky notes</li> <li>Save report as HTML, PDF, XML</li> <li>Email reports</li> <li>SSL and pass-phrase support</li> <li>Numerous other enhancements</li> </ul>	<ul> <li>Measure and report resource use in virtually any IBM z/OS® address space</li> <li>Isolates application performance problems across entire application – subsystems (DB2, IMS, CICS, MQ, USS, WAS), languages, and DASD</li> <li>Identify constraints</li> <li>Non-intrusive</li> <li>Helps with design, development and maintenance</li> <li>Shares side files with Fault Analyzer and Debug Tool</li> <li>Broad product support: <ul> <li>C/C++, Assembler, COBOL, PL/I, Java V6.0.1, CICS TS V4.2, IMS V12, DB2, WebSphere MQ, and WebSphere Application Server</li> </ul> </li> </ul>





## Pinpoint the cause of enterprise application failures

#### What's new in FA V12.1...

- Enhanced plug-in for CICS Explorer
- Integration with z/OS Explorer credentials and connections
- Pass-phrase support
- Java enhancements
- Usability enhancements

#### FA enables you to...

- Detailed report about program failures
- Fault-history file to track and manage application failures and fault reports
- View storage contents, trace tables and terminal screen images at the time of failure
- Customize message descriptions for failure reports
- Control which users can access history files
- Plug-in support for CICS Explorer, RDz, and IMS Enterprise Explorer





## Application insight

#### What's new in DT V12.1

- Enhanced plug-in for CICS Explorer
- DTCN profile plug-in integrated with CICS Explorer
- Startup at subprogram boundary
- Dynamic debugging supports applications using XPLINK linkage
- Consolidated user exits
- Enhanced remote security
- Numerous other enhancements
- Support for CICS TS V5.1 and IMS V12

#### DT enables you to...

- Debug applications in CICS, IMS, DB2 Stored Procedures and UNIX System Services
- Source-level debugging, Multiple Conditional Unconditional breakpoints, Step mode debugging, Dynamic patching (Modify variables and Insert statements), log commands, Frequency sampler, Programmable command entry, etc
- Identify old OS/VS COBOL & VS COBOL II source code and upgrade it to IBM Enterprise COBOL or ANSI 85 standard
- One tool debugs batch, TSO, CICS, DB2, DB2 stored procedures and IMS applications written in COBOL, PL/I, C/C++ and Assembler
- Integrated development, test and debugging environment with CICS Explorer, RDz, and IMS Enterprise Explorer
- Code coverage tools





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## Manage a variety of enterprise data file structures

What's new in FM V12.1?	FM enables you to
Enhanced plug-in for CICS Explorer, including: Support for z/OS data sets, zFS files, CICS Files, TS and TS queues, MQ queues, and DB2 databases Integration with z/OS Explorer credentials and connections Support for CICS TS V5.1 and IMS V12 Other Base, DB2, IMS, and plug-in enhancements	<ul> <li>Select, create, browse, copy, edit, print, and format or reformat data files</li> <li>Manipulate data using COBOL and PL/I record layouts interactively or in batch.</li> <li>Comprehensive, user-friendly, batch and interactive utilities extends standard ISPF</li> <li>Access CICS resources with CICS transaction</li> <li>Audit logging and scrambling allow development and production use</li> <li>SQL Prototyping and Execution</li> <li>Broad product support: <ul> <li>Works with, CICS, DB2, IMS and z/OS (QSAM, VSAM, PDS, zFS) data</li> <li>Plug-in support for CICS Explorer, RDz, and IMS Enterprise Explorer</li> </ul> </li> </ul>





## Single point of control over CICS resource definitions

What's new in CICS CM V5.1...

- Application, Platform, and Policy resources
- Enhanced plug-in with Packaging and Deployment Analysis
- Sort in Package view and Ready list
- ADD/REMOVE CSD group to/from LIST during Migrate operation
- Option to automatically remove empty Groups
   from CSD List
- SSL support for plug-in connection
- Audit trail for Install and NewCopy

#### CICS CM enables you to...

- · Manage changes throughout the life-cycle
- Create reports to identify redundant definitions, show resource relationships, and change management history
- Manage audit, back-out and change authorizations

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Reduce the risk to your VSAM Data								
What's new in CICS VR V5.1	CICS VR enables you to							
Replication logging in support of the GDPS-Active-Active availability solution	<ul> <li>Supports backups created by Backup- While-Open (BWO)</li> <li>Automate recovery</li> <li>Test forward recovery and backout</li> </ul>							
Batch logging enhancements	<ul> <li>Produce disaster recovery reports</li> </ul>							
Batch backout improvements	CICS TS and CICSVR							
Migration utility enhancements	LOGOFLOGS SCAN							
Logstream printing and other usability enhancements	After-images							

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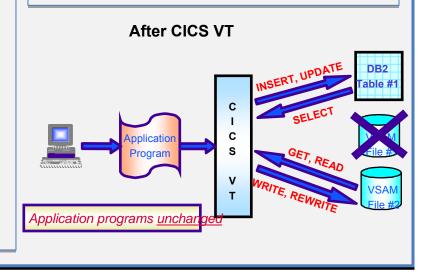
## Modernize your CICS and batch VSAM data

#### What's new in CICS VT V2.1...

- Auto-generate customized data migration JCL
- Enhanced IDCAMS REPRO support
- New migration tracking report
- Improved diagnostic facilities
- Support for CICS® Transaction Server V5.1 and DB2® 10
- Other functional enhancements
  - Long column name support
  - HLL support for user exits
  - RRS support in batch
  - Read-only DDM
  - Dynamic DST update
- New plug-in for CICS Explorer

#### CICS VT enables you to...

- Migrate VSAM files to DB2 without changing application programs
- · Maintain single copy of the data
- CICS and batch programs access data in DB2 under the control of CICS VT
- Access migrated DB2 data natively using SQL





#### Regression and load test interactive z/OS applications What's new in WSIM V12.1... WSIM enables you to... Integrated plug-in for CICS Explorer, RDz, and Drive 3270 performance test workload on System z ٠ IMS Enterprise Explorer Broad protocol support • SNA, CPI-C (LU 6.2), and enhanced TCP/IP support, Telnet 3270, 3270E, and 5250 clients, 🐺 Project View 🔀 📫 🛉 💠 🕷 📴 🗖 🗖 🗐 CASEB 🕺 Telnet line mode network virtual terminal clients. 🔗 🗉 🖻 🖓 Tese case overview Simple TCP and UDP clients, File transfer protocol EST3 Test Case Test case information (FTP) clients ♦ CASER Name: CASE3 🔷 CA 彦 🛛 Open New Test Case Description: V case1 Multiple client applications that run on top of TCP/IP Edit STL 🚍 Test G SNA LU simulation 🕞 Schee Notes 🕞 🕞 Repor Translate 🛛 🗁 TEST1 UTBL Test manager (WTM) guides the user through the Other information 🖻 🗁 TEST2 View test process. Type: CPIC 🗶 Delete Notes flag: Extensive run-time, script-generating, and post-test UTLB counts: utilities ISPF Interface - -🗄 Outline 🖾 Plug-in support for CICS Explorer, RDz, and IMS An outline is not available. Enterprise Explorer



# CICS and PD Tools Solution

Requirement	Business Flexibility	IT Service Managemen	Governance &	Reduced TCO
		t	Compliance	
CICS Deployment Assistant	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CICS Interdependency Analyzer	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CICS Transaction Gateway	$\checkmark$			
CICS VSAM Transparency	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CICS Configuration Manager	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CICS Performance Analyzer	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CICS VSAM Recovery		$\checkmark$	$\checkmark$	$\checkmark$
CICS Batch Application Control		$\checkmark$		$\checkmark$
IBM Session Manager		$\checkmark$	$\checkmark$	$\checkmark$
CICS Online Transmission Time Optimizer		$\checkmark$		$\checkmark$
Application Performance Analyzer for z/OS	$\checkmark$			$\checkmark$
Fault Analyzer for z/OS				
Debug Tool for z/OS	$\checkmark$			$\checkmark$
File Manager for z/OS	$\checkmark$			$\checkmark$
Workload Simulator for z/OS				

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PD Tools

**CICS** Tools





## **CICS TS V5.1 Evaluations. No Cost. No Fuss.**

### CICS Transaction Server for z/OS V5.1 Developer Trial

- Try-before-you-buy the latest production ready edition of CICS Transaction Server
- Zero-cost license, no single version charging (SVC) period, no reason to wait
- Easy ordering via IBM ShopzSeries, with internet or physical delivery options

What's new with the Developer Trial?

- Evaluate the value of a CICS TS upgrade, before committing time and resources to a production migration project.
- Explore all CICS TS V5.1 features and benefits, in non-production environments only.
- Decide to upgrade to CICS TS V5.1 the latest production ready release of CICS

TS that delivers major enhancements in five key areas Get ready for the cloud with CICS TS V5.1





# **GENAPP – SupportPac and Redpaper**

- GENAPP is available to customers as SupportPac CB12, at no extra cost
  - Download from <u>http://www-</u> 01.ibm.com/support/docview.wss?r s=1085&uid=swg24031760
- There is a paper based on GENAPP with scenarios in this new IBM Redpaper
  - Download from <u>http://www.redbooks.ibm.com/abstr</u> <u>acts/redp4824.html?Open</u>

Learn How to Perform Popular Business Solutions with the CICS







# **Sources of Information**

#### Web

- CICS home page <u>ibm.com/cics</u>
- CICS Tools home page <u>ibm.com/cics/tools/</u>
- PD Tools site <u>ibm.com/software/awdtools/deployment/</u>
- CICS Tools trials <u>ibm.com/software/os/zseries/trials/cicstools/</u>
- CICS Explorer home page <u>ibm.com/cics/explorer</u>
- CICS Explorer download page <u>http://ibm.com/cics/explorer/download</u>

#### Demos and animations

- CICS Explorer animation <u>http://www.youtube.com/watch?v=-NzWwUi5ILw</u>
- CICS Explorer flash demo featuring Threadsafe Analysis using the CICS PA, CICS IA, and CICS CM perspectives -<u>http://www.youtube.com/watch?v=Jk3YdvI8Ino</u>

#### Other

 CICS Transaction Server in your SOA - Great source of links to more CICS ecosystem information -

<u>ftp://ftp.software.ibm.com/software/htp/cics/presentations/CICS\_TS\_in\_your</u> SOA - Links - Issue 3.ppt © 2013 IBM Corporation





# **Google CICS or check us out at:**

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 twitter.com/IBM\_CICS
 You Tube youtube.com/cicsfluff
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CICS Explorer Forum

ibm.com/developerworks/forums/forum.jspa?forumID=1475&start=0

CICS-L list Forum

listserv.uga.edu/archives/cics-l.html



- You can now raise and track requirements using the new IBM RFE system for
  - CICS Transaction Server
  - CICS Explorer
  - TXSeries
  - WXTR
  - IBM CICS Tools
  - CICS Transaction Gateway
  - PD Tools



- Existing FITS requirements are currently being processed, and will either be transferred to RFE or closed and returned.
- All brands <u>https://www.ibm.com/developerworks/rfe/</u> select Brand: WebSphere
- WebSphere only <u>https://www.ibm.com/developerworks/rfe/?BRAND\_ID=181</u>
- Select Product Family: Transaction Processing for CICS Transaction Server, TXSeries, and WXTR
- Select Product Family: Enterprise Tooling for the CICS Tools, CICS Transaction Gateway, and PD Tools
- Raise CICS Explorer base requirements against the Explorer component of CICS TS.
- Raise plug-in requirements against the Explorer component of related product.





# Session 13157

# Lunch and Learn: Live demo! New IBM CICS Tools and IBM Problem Determination Tools Efficiently Support the z/OS Ecosystem

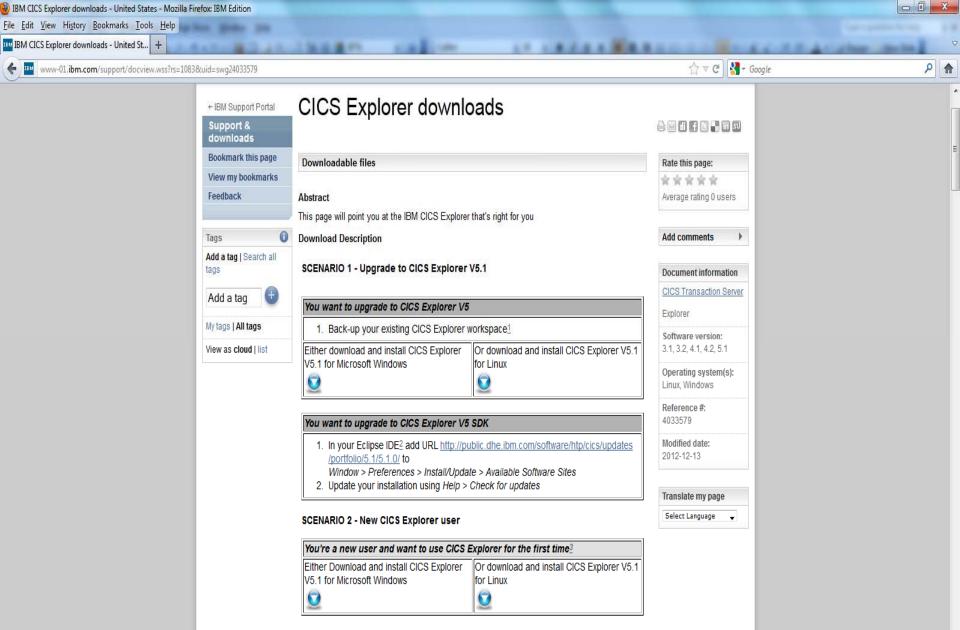
# **Select Demonstration Screen Shots**





# **CICS Explorer Introduction**

 The following slides show basics for installing and customizing the CICS Explorer with the available tooling plug-ins



SCENARIO 3 - CICS Explorer with Eclipse

You want to use your existing Eclipse environment with CICS Explorer

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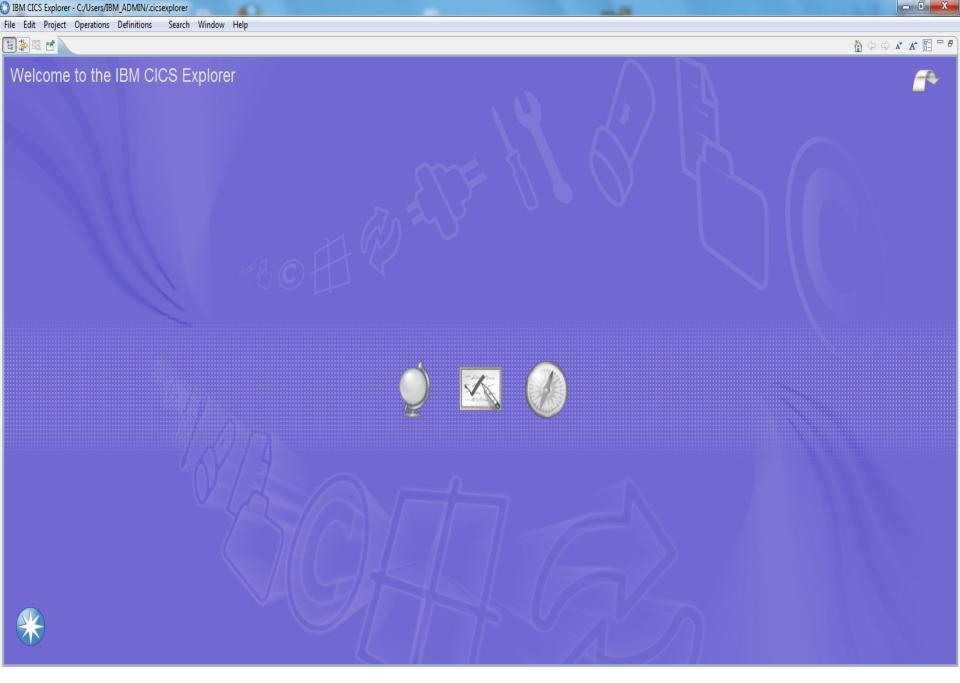
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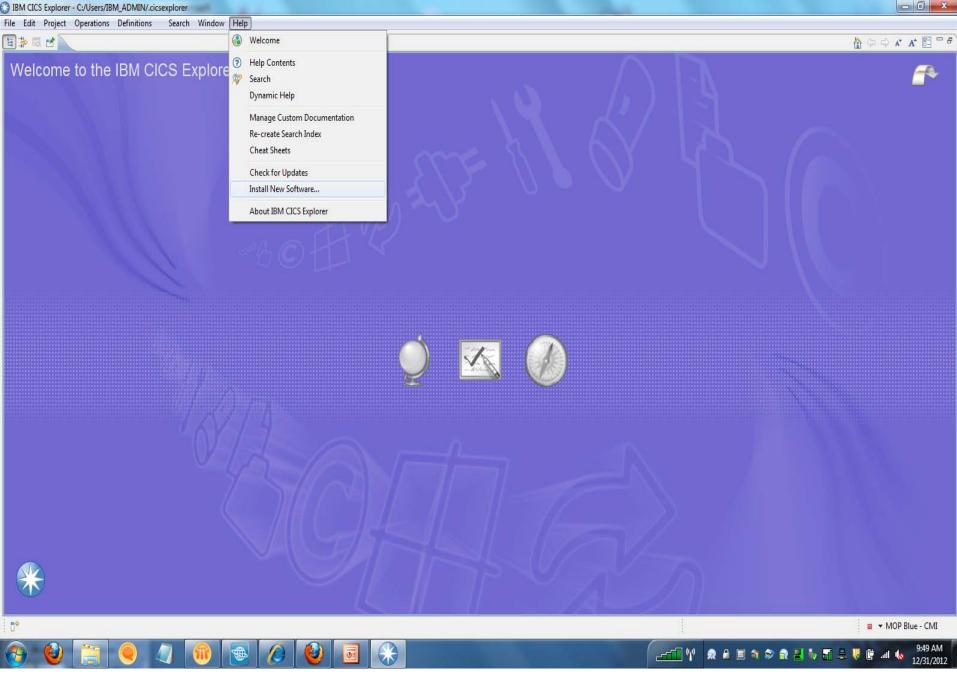
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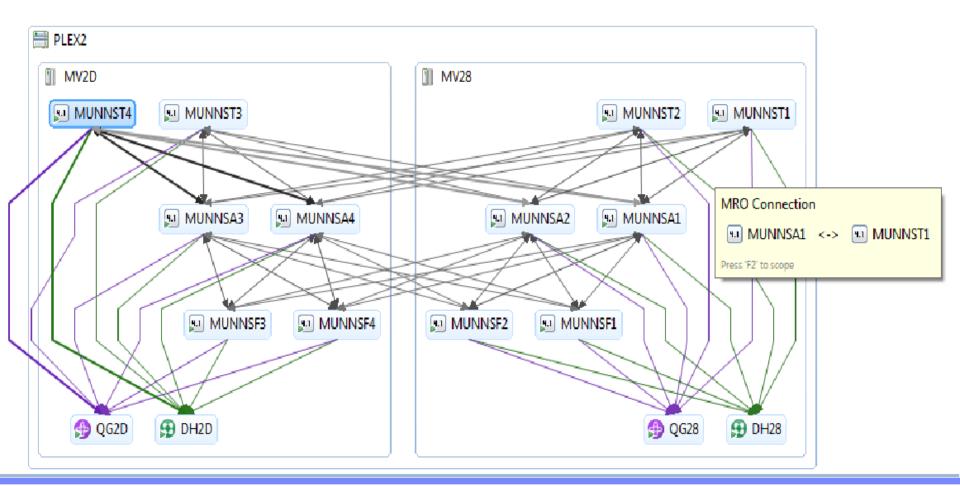


## Use CICS and PD tools to Diagnose a real issue

 The following slides show how CICS and problem determination tooling work together to resolve a real world issue

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🔁 TESTREFR (AOR Group teste REFRESH)										
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🖉 WLMAORGP (WLM Demo AOR Group - Target Regions)										
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🔁 CICSplex Explor 👌 CICSplex Repos 🎄 Configurations 🛛 🗖	💽 🍋 Regions 🔁 Tasks 🛛	3 📑 ISC/N	/IRO Connections 📃 Terminals	📄 Files 🖶 Transa	ctions		🚸 🚆   Transaction ID	: SSP1 Task ID:	0 🗙 🗸 🗖
Server: CPSM	CNX0211I Context: CICSA	OR6. Resource	: TASK. 2 records collected at Jan	2, 2013 1:16:32 PM					
配 CICSDAX1 (6/6)	Task ID	Transaction II		User ID	Principal Facility	LU Name	Priority	Class Name	Current Suspend Time
₽급 CICSPLX1 (10/12)		SSP1	Open	DS0173	Z007	ISZ007	1	DFHTCL09	0:01:02
WLMMARY CPSM	0001298	SSP1	Open	NET409			1	DFHTCL09	0:00:54
CICBRCAC			Search	+					
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GRP0104 (AOR2 + AOR3)										
E LKGRP (LK Group)	- [ -	L.								
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#### 🙁 IBM CICS Explorer - C:/Users/IBM\_ADMIN/.cicsexplorer File Edit Project Operations Definitions Search Window Help 🔁 • 📄 🖢 • 🛷 • 🛷 😰 🔞 CICS SM 🖏 z/OS 🕴 CICS DA 🧠 CICS IA 🐘 CICS PA 🎄 CICS CM 📲 CICS Transac... 💂 IBM Session ... 🖸 IBM Session ... 🔤 APA 🗔 File Manager 🖏 Fault Analyzer 🔅 Debug **(1**) - **1** 😔 Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Transaction ID=SSP1 🛞 Ð 8 Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Transaction ID=SSP1 • 만급 Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Transaction ID=SSP1 D 54 54 0 Transaction response time (average) ĥ Average Response time of 3.390625 seconds. Average Suspend time 3.389525 seconds, 100 percent of response time Û Average Dispatch wait time 0.000011 seconds, 0 percent of suspend time, 0 percent of response time АРА Average User Dispatch time 0.001100 seconds, 0 percent of response time Average User CPU time 0.000981 seconds, 89 percent of dispatch time, 0 percent of response time 5 0 ▼ Performance averages at a glance CICS Response time Suspend time detail CPU time Task Storage usage File Request activity CICS TCB usage

### CICS Response time (averages)

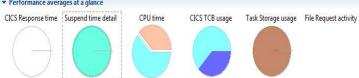
2 transaction(s): 2 TCB mode switches (average). 3.390625 seconds average response time per transaction.

Response measurement	Time (avg)	Count (avg)	%Response	%Relative
😔 CICS Response time	3.390625		-	-
User Dispatch time	0.001100	3	-	-
User CPU time	0.000981	3	-	89%
Suspend time	3.389525	3	100%	100%
Dispatch wait time	0.000011	2	-	-

Restrict tree nodes to those applicable to visible chart. Include available non-zero values only

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😔 Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Transaction ID=SSP1 🖄		( <b>1</b> ) - 8
Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Transaction ID=SSP1		
😔 Start Date=2012-01-03, Start time=13.00.00, Applid=CICSACB6, Tr	ansaction ID=SSP1	
<ul> <li>Transaction response time (average)</li> </ul>		
Average Response time of 3.390625 seconds.	<u>+</u>	
t		
	— — — – 🔲 Average Dispatch wait time 0.000011 seconds, 0 percent of suspend time, 0 percent of response time	
	– 🔲 Average User Dispatch time 0.001100 seconds, 0 percent of response time	
	– 📕 Average User CPU time 0.000981 seconds, 89 percent of dispatch time, 0 percent of response time	
Performance averages at a glance		



## Suspend time detail (averages) 2 transaction(s): 3.389525 average suspend time per transaction.

	Suspend time component	Time (avg)	Count (avg)	%Suspend t	%Relative	
	a 📕 Suspend time	3.389525	3	9 <u>4</u>	4	
	a 🔲 1/0 wait time	3.389506		100%	100%	
	Terminal control I/O wait time	3.389506	0	100%	100%	
	a 📕 Other wait time	0.000019			2	
	First dispatch delay time	0.000012	1	12	62%	
V	Change-TCB mode delay time	0.000007	2	3	38%	
	Uncaptured wait time	0		-	-	

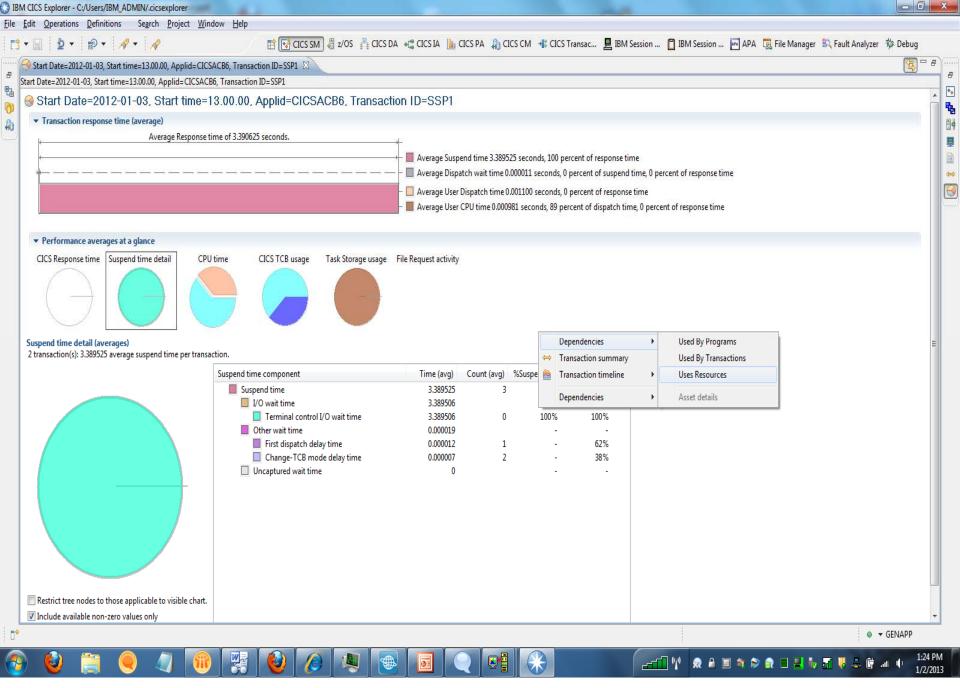
Restrict tree nodes to those applicable to visible chart. Include available non-zero values only

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Detail for Transaction summary	Maximum act	ive transactio	ons in class re	ached Appli	d=CICSACB6,	/ersion Rele	ase Modificat	tion=670, Inten	/al Number=0	, Type=REQ, M\	VS ID=MVSA	, Transaction	class=DFHT	CL09 Specific	date: 2012-	01-03 15.06.2	5		
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© CEDF ( CLSACBO 1) © Transaction summary tree	DE     DE     Constraints     Constraints	32 pool threa iqueues waite aximum activ aximum activ 32 pool threa iqueues waite 32 pool threa	ed in ENQ poo ve transaction ve transaction id waits ed in ENQ poo	ol - local Is in class rea Is in class rea	ached	2012-01 2011-11 2011-11 2011-11 2011-11 2011-11 2011-11 2011-11	13.18.00 13.18.00 12.41.00	CICSACB6 IYDZEJ07 IYDZEJ07 IYDZEJ07 IYDZEJ07 IYDZEJ07 IYDZEJ07	MVSA MV2F MV2F MV2F MV2F MV2F MV2F MV2F	Tclass Name DB2CONN Nar ENQ Pool ID Tclass Name Tclass Name DB2CONN Nar ENQ Pool ID DB2CONN Nar	me DB2CC EXECA DFHT DFHT Me DB2CC DEXECA	ONN1         1           ADDR         1           CL09         1           CL09         1           ONN1         1           ADDR         1	54 50 55 21 48 37 75	>10 >5 >25 >10 >10 >5 >25 >5 >5	REQ INT INT INT INT INT INT	670 670 670 670 670 670 670 670	0 798 798 761 796 796 796 797	00.01.00 00.01.00 00.01.00 00.01.00 00.01.00 00.01.00	
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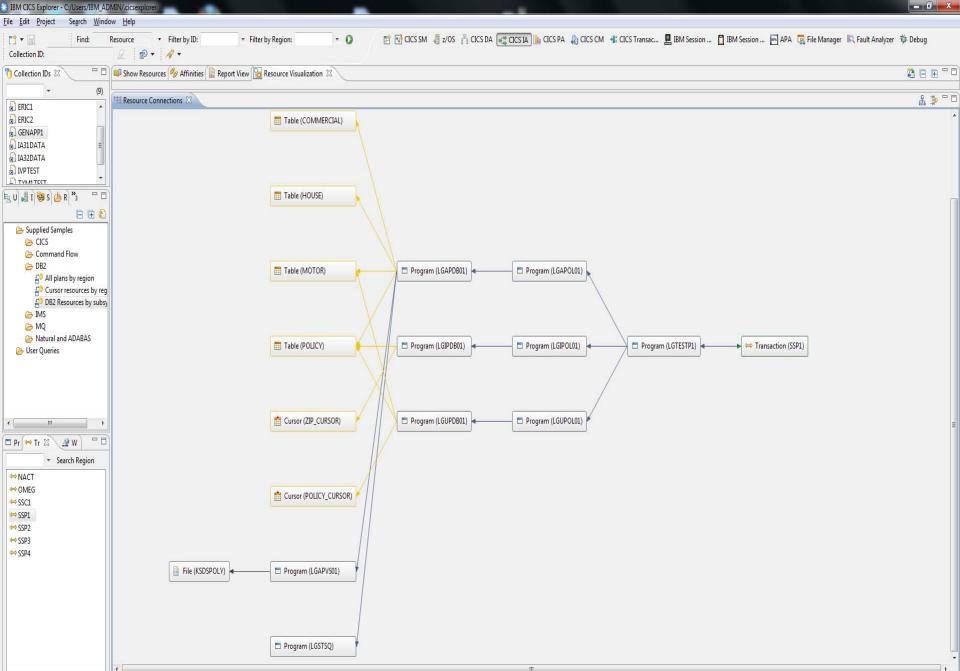


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ransaction(SSP1) in Region CICSACB6		(21) 🛛 🕀 🕞 🖪 Programs using INSERT - POLICY	
Resources used	By Resource		
<sup>I</sup> LGAPDB01 (1) <sup>I</sup> LGAPDB01 (1) <sup>I</sup> LGAPUD01 (1) <sup>I</sup> LGIPDB01 (1) <sup>I</sup> LGIPDD01 (1) <sup>I</sup> LGIPDD01 (1) <sup>I</sup> LGIPDD01 (1) <sup>I</sup> LGIPDD01 (1) <sup>I</sup> LGUPDD01 (1) <sup>I</sup> LGUPD101 (1) <sup>I</sup> LGUPOL01 (1) <sup>I</sup> LGUPOL01 (1) <sup>I</sup> MAPSET (1) <sup>I</sup> MAPSET (1) <sup>I</sup> MOTOR (2) <sup>I</sup> Table (2) <sup>I</sup> MOTOR (2) <sup>I</sup> INSERT <sup>I</sup> DOLICY (3) <sup>I</sup> ICOM-Data (1) <sup>I</sup> ICOM-Data (1) <sup>I</sup> MOTOR (1) <sup>I</sup> ICOM-Data (1) <sup>I</sup> MSERT <sup>I</sup> ICOM-Data (1) <sup>I</sup> ICOM-Data (1) <sup>I</sup> ICOM-Data (1) <sup>I</sup> WRITE	LGAPDB01	CCACLEO → SSP1 d'LGTESTP1	

	SACB6	No. Alexandre de la companya de la c	(21) 🔄 👉 🖻 🕀 Programs using SSP1	
Resources used		By Resource		
<ul> <li>➢ Program (8)</li> <li>▷ I LGAPDB01 (1)</li> <li>▷ LGAPOL01 (1)</li> <li>▷ LGAPVS01 (1)</li> <li>▷ LGIPDB01 (1)</li> <li>▷ LGIPOL01 (1)</li> <li>▷ LGIPOL01 (1)</li> <li>▷ LGUPDB01 (1)</li> <li>▷ LGUPDB01 (1)</li> <li>▷ LGUPOL01 (1)</li> <li>▷ LGUPOL01 (1)</li> <li>▷ SSP1 (1)</li> </ul>		d LGTESTP1	SECICSAC86	
▷       MAPSET (1)         ▷       CONDITION (1)         ▷       Map (1)         ▷       AID (1)         ▷       TEXT (1)         ▷       Table (2)         ▲       Table (2)         ▲       MOTOR (2)         →       INSERT         →       UPDATE         ▲       POLICY (3)         →       INSERT         →       SELECT         →       UPDATE         ▲       CONTAINER (1)         →       GET         ▷       CHANNEL (1)         ▷       Cursor (1)         ▲       File (1)         ▲       KSDSPOLY (1)         →       WRITE	Create Event       Used By Regions       Show Tasks       Visualization       Used By Applications       Used By Applications       Used By Transactions       Show Command Flow runs       Uses Resources       Threadsafe Report       Transaction summary       Transaction timeline       Asset details			

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Tollection IDs 🛙 🗖	💷 *Show Resources 🛙 🥠 Affinities 🔚 Report View 🎯 Report Browser 🔂 Resource Visualiza 🛛 🗖 🗖	🗊 Uses 🛙 👍 Command Flow → 🌾 🗘 🗖 🗖
		Transaction(SSP1) in Region CICSACB6 (21)
	All transactions using files       (109)         ⇔ TRANSID (ECDA) (1)	Resources used <ul> <li>Program (8)</li> <li>LGAPDB01 (1)</li> <li>LGAPOL01 (1)</li> <li>LGAPVS01 (1)</li> <li>LGIPDB01 (1)</li> <li>LGIPOL01 (1)</li> <li>LGIPOL01 (1)</li> <li>LGIPOL01 (1)</li> <li>LGIPOL01 (1)</li> <li>LGUPDB01 (1)</li> <li>LGUPDB01 (1)</li> <li>LGUPDB01 (1)</li> <li>LGUPDB01 (1)</li> <li>CONDITION (1)</li> <li>CONDITION (1)</li> <li>Map (1)</li> </ul>
Image: Second	ECATALOG     EQADPFMB     CATALOG     EQADPFMB     CATALOG     EQADPFMB     CATALOG In all regions     (10)	→ AID (1) → TEXT (1) → (1)
<ul> <li>All programs that issue a GETMAIN SHARED</li> <li>All programs that issue a GETMAIN</li> <li>All programs that issue a LOAD</li> <li>All programs that issue an ADDRESS CWA</li> <li>All programs that issue an EXTRACT EXIT</li> <li>All programs which may have threadsafe integrity issues</li> <li>CLCS Commands by TCB mode and program</li> <li>DB2 Commands by TCB mode and program</li> <li>DMS Commands by TCB mode and program</li> <li>MC Commands by TCB mode and program</li> <li>MQ beservices</li> <li>Command Flow</li> <li>DB2</li> <li>All plans by region</li> <li>Programs S</li> <li>Transactions</li> <li>Web Services</li> </ul>	ECATALOG ECAT30 Endbr,Read,Read next,Startbr ECAD10 Write ECWORKR Read,Read for update,Rewrite ECAT35 Read for update,Rewrite,Unlock	CICSACB6 ♣ SSP1 ➡ LGTESTP1
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CAZ0 (default)	0559	DDS1687	Fo	ocus on SSP1 txn	.n	CICSAOR6		Jan-16 14:18			2,000	Ended	Кеер		
	0558	DDS1687				CICSAOR6		Jan-16 14:02			1,000	Ended	Кеер		
	0557	SYS028			onnect contra DIST	DSNADIST		Jan-14 10:45			60	Ended	Кеер		
/	0556	SYS028		rueba de db2 con		DSNADBM1		Jan-14 10:43			5,000	Ended	Keep		
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[ ]	0544	SYS028		rueba de 062 con rueba de D82	mecu	LISCLAJ		Dec-18 09:28			177	Ended	Keep		
[ /	0541	DNET461		arina		CICSAOR5		Dec-17 12:51			50,000	Ended	Кеер		
	0540	NM16144		ene		VALPA2		Dec-14 14:52			15,000	Ended	Кеер		
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l l	Details (0560) 📳 Reports (0560) 🕱		> ⇒ ▼ <b>= ⊡</b>	E05: CI	CS Total Service Time	ne by Txn (0560/CICSAOR	R6) 🕄						🗆 🗉 🔹 🔮 👰 🔗 🗎		20
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File Edit Project Operations Definitions Run Search Window Help

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O X V - D 🔁 CICSplex Explorer 🛛 🕅 CICSplex Repositories 🧬 🖓 🗋 ) 💽 Regions 🖏 Tasks 📋 ISC/MRO Connections 🗐 Terminals 📋 Files ( 🚧 Transactions ( 🗖 Programs 🕮 ) 🔗 👫 Name: LG\* Rex Local 1 X Rex Local 2 Rex Local 3 CNX0211I Context: CICSAOR6. Resource: PROGRAM. 25 records collected at Jan 22, 2013 10:02:47 AM Server: CPSM **Profile Overview** ⊕ CICSDAX1 (6/6) Region Name Status Use Count Concurrent Use... Language Share Status **CEDF** Status NEWCOPY Status □ P CICSPLX1 (10/12) ✓ ENABLED CEDF CICSAOR6 LGACDB01 0 0 LE370 PRIVATE NOTREQUIRED General information WLMMARY CPSM (ACTIVE) CICSAOR6 LGACUS01 ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREOUIRED CICBRCAC CICSAOR6 LGACVS01 ENABLED 0 0 COBOL SHARED CEDF NOTREQUIRED Name: Local 1 CICSAORB CICSAOR6 LGAPDB01 ✓ ENABLED 0 0 COBOL PRIVATE NOCEDF NOTREQUIRED Description: Debug LGTESTP1 CICSAOR1 (CICSACB1) CICSAOR6 LGAPOL01 ✓ ENABLED COBOL PRIVATE CEDF NOTREQUIRED 0 0 CICSAOR2 (CICSACB2) CICSAOR6 LGAPVS01 ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREQUIRED Profile owner user ID: DDS1687 CICSAOR3 (CICSACB3) CICSAOR6 LGDPDB01 ✓ ENABLED COBOL PRIVATE CEDF NOTREQUIRED 0 0 Pattern matching resources CICSAOR4 (CICSACB4) CICSAOR6 LGDPOL01 ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREQUIRED CICSAOR5 (CICSACB5) CEDF CICSAOR6 LGDPVS01 ✓ ENABLED 0 0 COBOL PRIVATE NOTREQUIRED Resources to debug CICSAOR6 (CICSACB6) CEDF NOTREQUIRED CICSAOR6 LGICDB01 ✓ ENABLED COBOL PRIVATE 1 0 Transaction Id: Terminal Id: Z002 CICSAOR7 (CICSACB7) CICSAOR6 LGICUS01 ✓ ENABLED 0 COBOL PRIVATE CEDF NOTREQUIRED 1 Load Module and Compile Unit (maximum 8 pairs) CICSAOR8 (CICSACB8) CICSAOR6 LGICVS01 ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREQUIRED CICSCM (CICSCM) ✓ ENABLED 22 CEDF NOTREQUIRED Compile Unit CICSAOR6 LGIPDB01 0 COBOL PRIVATE Load Module CICSWUI (CPSMWUI) ENABLED 22 COBOL CEDF NOTREQUIRED CICSAOR6 LGIPOL01 0 PRIVATE LGTESTP1 AORBRCAC (AOR Group CAC BR teste) CICSAOR6 LGIPVS01 ✓ ENABLED COBOL PRIVATE CEDF NOTREQUIRED 0 0 AORGRP1 (AOR Group 1) CICSAOR6 LGSETUP ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREQUIRED AORGRP2 (AOR Group 2) CICSAOR6 LGSTSQ ✓ ENABLED 0 0 COBOL PRIVATE CEDF NOTREQUIRED User Id: DDS1687 NetName: ✓ ENABLED CICSAOR6 LGTESTC1 2 0 COBOL PRIVATE CEDF NOTREQUIRED IP Name/Address: CICGRP01 (System Group for CICSAOR1) CICSAOR6 LGTESTP1 ✓ ENABLED 28 COBOL PRIVATE CEDF NOTREQUIRED Open CICGRP02 (System group for CICSAOR2) CICSAOR6 LGTESTP2 ✓ ENABLED COBOL CEDF 0 PRIVATE NOTREQUIRED Commarea CICGRP03 (System group for CICSAOR3) CICSAOR6 LGTESTP3 ✓ ENABLED 5 New Copy COBOL PRIVATE CEDF NOTREQUIRED Offset: 0 Data: CICGRP04 (System group for CICSAOR4) ✓ ENABLED Phase In COBOL CEDF NOTREQUIRED CICSAOR6 LGTESTP4 0 PRIVATE CICGRP05 (System group for CICSAOR5) CEDF NOTREQUIRED CICSAOR6 LGUPDB01 ✓ ENABLED 0 COBOL PRIVATE Container Discard EVNREGNS (Even Numbered Regions) CICSAOR6 ✓ ENABLED COBOL PRIVATE CEDF NOTREQUIRED LGUPOL01 0 Offset: 0 Enable Name: GRP0102 (Grupo aor 1 e 2) CEDF CICSAOR6 LGUPVS01 ✓ ENABLED 0 COBOL PRIVATE NOTREQUIRED Disable ⊕ 📇 GRP0103 Profile Status: INACTIVE URM Debugging: NO GRP0104 (AOR2 +AOR3) Copy Ctrl+C LKGRP (LK Group) Update profile DTCN Test run time options ODDREGNS (Odd Numbered AOR Regions) Manage profile... SGSERASA (SYSTEM GROUP SERASA) Test Type: TEST ▼ Test Level: ERROR TESTREFR (AOR Group teste REFRESH) WILLGRP (WILLIAM CREATE A CICS GROUP) Prompt: PROMPT K 🔗 🗆 🗆 WLMAORGP (WLM Demo AOR Group - Target Regions) C Properties 👰 Error Log 👎 Host Connections 👫 DTCN Local Profiles 🎼 DTCN Server Profiles DTSP Profile Session Address or Terminal Id: 9.55.177.75 Port: 8006 Owner Status Tran... Ter... Load Module Compile Unit User Id Sess... Session Addr... Port# Test ... Level Commands File Preference File Commands File: \* DDS1687 Active Z002 8 LGTESTP1 DDS1687 TCP 9.55.177.75 8006 TEST ERROR DNET047 Inactive Z002 CD\* CD\* DNET047 MFI Z002 TEST ALL Preference File: \* \* DNET246 Inactive Z002 CDAT1 DNET246 MFI Z002 TEST ERROR DNET249 Inactive CDAT2 MFI 0073 TEST ALL EQAOPTS File: 8001 TEST ALL DNET409 SSC1 Z004 DNET409 TCP 9.77.133.203 Active Other Language Environment Options: < < Profile Overview

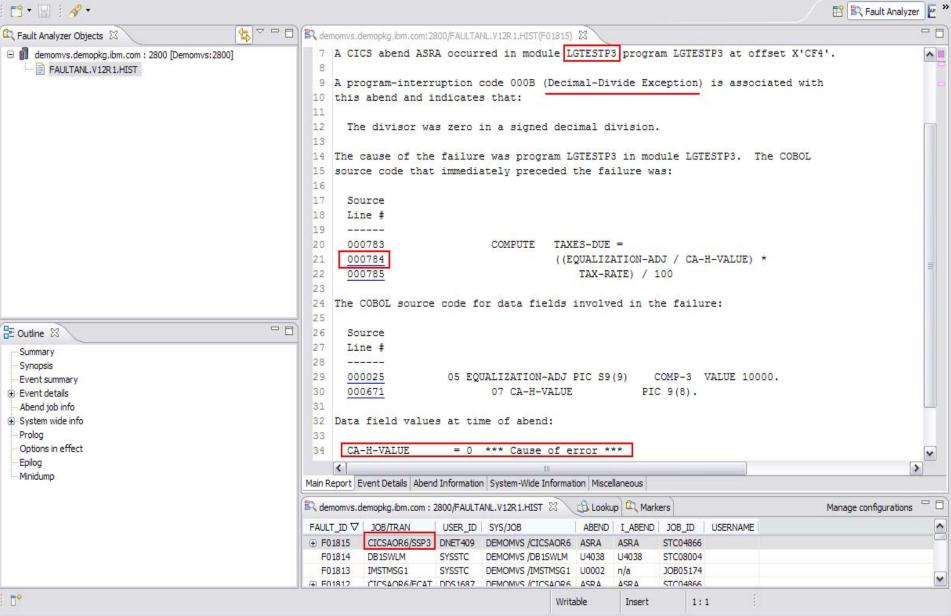
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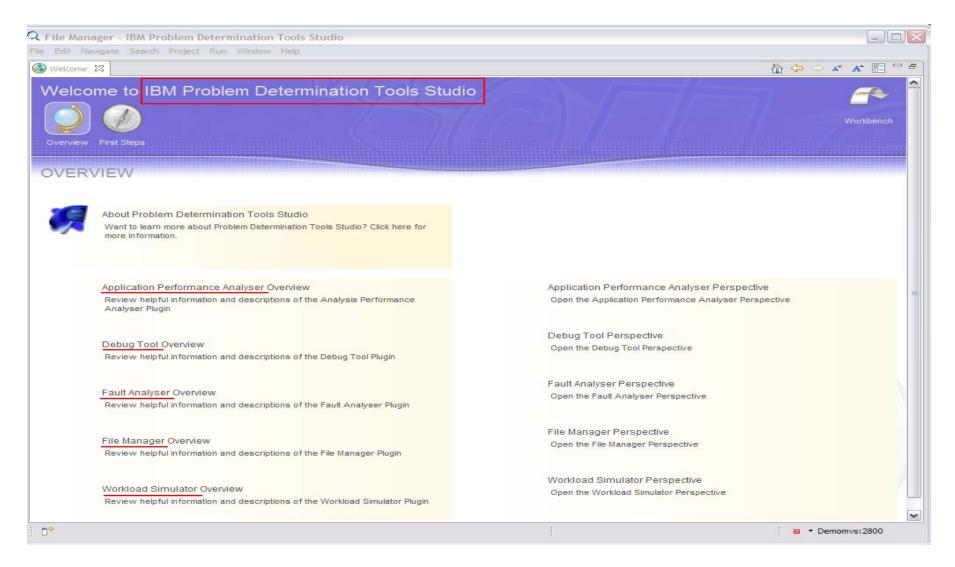


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## The LGTESTP3 program has been fixed....

- Use CM to correct the TCLASS definition
- Install corrected definition, new copy program

<u>File Edit Operations Definitions</u> Search Project Window Help

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CTS41CSD	CICSTS.V4R1.DFHCSD									Change Time	Jan 2, 2013 12:40:25 PM	
CTS42CSD	CICSTS.V4R2.DFHCSD									Change User ID	DNET409	
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GENA GENASAD GENASAF	R6)	(6)	Resource History fo	or SSP1 from	2012/10/02 13:39:56 to late		Group			Profile Program Name Runaway Time Shutdown	LGTESTP1 SYSTEM DISABLED	
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E GENA GENASAD GENASAF GENASAP GENASAP	R6)	(6)	Resource History for Revision Time	2 12:40:25	Resource Name/After SSP1	Resource Type/Before TRANDEF	Group GENASA2			Profile Program Name Runaway Time Shutdown	LGTESTP1 SYSTEM DISABLED NO	
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		(+)	xt: GENASA2. Resource: TRANDEF. 4 rec		2:02:10 PM		CHINNER .	1200020	A MORE	(Transition)		
Name	CSD/Context	Name	Version	Create Time		Change Ti		Descriptio	on	Status		
CICSAOR1	CICSTS.CICSAOR1.DFHCSD	SSP1	0	Jan 2, 2013 12:			13 12:40:25 PM			ENABLED		
CICSAOR2	CICSTS.CICSAOR2.DFHCSD	E TEST	0	Apr 27, 2012 8:			012 9:10:38 PM		1	ENABLED		
	CICSTS.COMMON.DFHCSD	TES2	0	Jun 3, 2012 6:5			12 10:15:27 PM		ransaction	ENABLED		
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CSDAOR5	CICSFEAT CICSTS.CICSAOR5.DFHCSD											
CSDAOR6	CICSTS.CICSAOR6.DFHCSD											
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	R6. Resource: CSDLIST. 1 records collected at Jan 2, 2013											
Name	CICS System											
GENALIST	N/A											
🚯 Resource Group Definiti	ons 🕱											
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CNX0211I Context: CSDAOF	R6. Resource: CSDGROUP. 6 records collected at Jan 2, 2											
Name	CICS System											
GENA	N/A		Open									
GENASAD	N/A											
GENASAF	N/A		Restore			_						
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GENASAT	N/A	Resource Histo	Dependencies	▶ entry								
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		▲ 🚺 2013/	Compare with current version	TRANDEF	GENASA2		CSDAOR6	UPDATE				
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CPSMBAS	CICSPLX1		Open									
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ENASAT	N/A	Resourc	e History for SSP1 from	2012/10/02 14:04:05 to lat	est entry							
ENASA2	N/A	Revisio	on Time	Resource Name/After	Resource Type/Before	Group	User Name	Configuration	Command	Change Package	Scheme	
		0	2013/01/02 13:01:40	SSP1	TRANDEF	GENASA2	DNET409	CSDAOR6	UPDATE			
			🚸 tranclass	DFHTCL00	DFHTCL09							
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Packages	Description	Last Action	Changetime	Last User	Last Scheme	Last Return Code	Last Reason Code	External Reference	Migration Scheme			
		READY	2012/04/18 05:31:21.81	STANNA	CTS32T41	0000004	001100AC		Select the Migration Scheme to scope	the resources	by.	
₿ 0000002	Migrate from AOR6 to AOR7	MIGRATE	2012/02/13 08:24:08.77	DNET409	AOR6T07	0000004	00040024		GENAPP -			
0000003	Migrate from CSD to CPSM BAS	BACKOUT	2012/05/30 03:55:56.57	STANNA	AOR6T07	0000000	0000000		GENAPP +			
BERLIN BERLIN	test	CREATE	2012/10/18 06:37:46.04	CICSUSER		0000000	0000000		Resources			
BNAPKG1	Test Package	BACKOUT	2012/05/18 09:36:18.00	STANNA	AOR6T07	0000000	0000000	EXter	View ready-list and remove definition	resources from	this Change	Package.
	Prueba	MIGRATE	2012/09/17 09:15:11.73	CICSUSER	PRUCARI	0000004	00040024		Ready list has errors. (Reason : 000600			
	prueba del 6 al 7	MIGRATE	2012/09/03 14:37:07.52	CICSUSER	PRUCARI	0000004	00040024		Ready list has errors. (Reason : 000000	.4r)		
the CP1		CREATE	2012/05/21 06:49:45.78	STANNA		0000000	0000000		Resources	Ready State	Group	Configura
	Demo PKG	CREATE	2012/07/19 08:28:12.37	SIDDELL		0000000	0000000		🗁 DB2 Entry Definition (1)			
	Development to Test	READY	2012/09/27 05:44:24.27	STANNA	GENAPP	0000000	0000000		DB1SLU2	Ready	GENASAD	CSDAOR6
EMSTEST		READY	2012/10/17 12:01:19.60	CICSUSER	GENAPP	0000000	0000000		😕 Enqueue Model Definition (1	)		
	Demo of change packaging via explorer	UNREADY	2012/09/25 21:26:59.39	DNET409	AOR6T07	0000000	0000000		😕 File Definition (2)			
The second second second second second	test package for Eric	MIGRATE	2012/09/18 10:22:48.92	DNET409	AOR6T07	0000000	0000000	test	KSDSCUST	Not Ready	GENASAF	CSDAOR6
	Migration of GENAPP resource	READY	2012/04/29 12:40:09.97		GENAPP	0000000	0000000		KSDSPOLY	Ready	GENASAF	CSDAOR6
HA JOETEST		READY	2012/10/31 06:37:37.16	DNET453	AOR6T07	00000000	00000000		Program Definition (26)			
SFCPKG1	Package for SFC app	MIGRATE	2012/05/02 17:52:17.51	STANNA	AOR6T07	0000004	00040024		> Transaction Definition (9)			
SSACHPKG	Change package for WMQ definitions	MIGRATE	2012/07/11 03:44:50.43	SIDDELL	AOR1TO6	0000004	00040024		LGCF	Ready	GENASAT	CSDAOR
									LGPF	Ready	GENASAT	CSDAOR6
冯 Group List Defin	itions 🖾					Contraction of the second seco	₩ Name: GEN*	0 🗙 🗸 🗆 🗆	LGSE	Ready	GENASAT	CSDAOR6
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Name			C	CS System					SSP1	Ready	GENASAT	CSDAOR6
GENALIST			N	/Α					SSP2	Ready	GENASAT	CSDAORE
1.									SSP3	Ready	GENASAT	CSDAOR6
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