

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



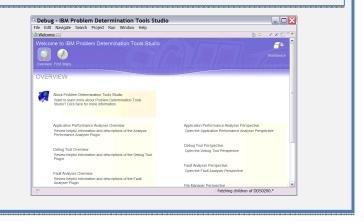
Tools to address your z/OS Development or System Programming needs

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

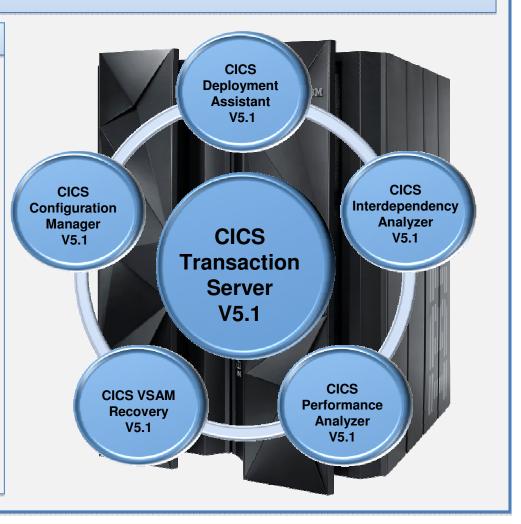
•Discovery and visualization aids insight into application and platform dependencies

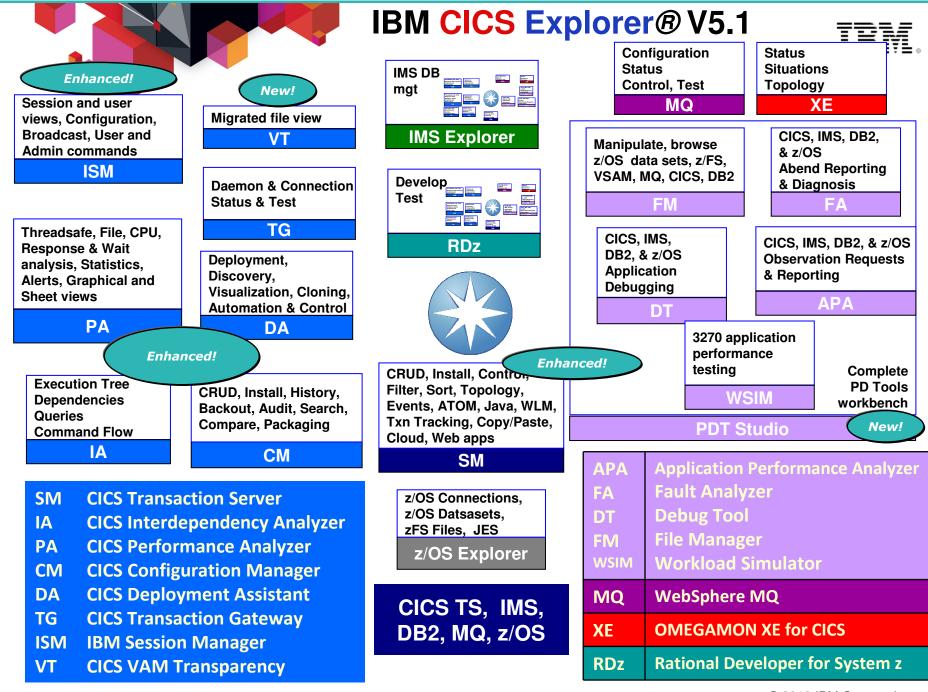
•Automation speeds service delivery and ensures standardization and governance

•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





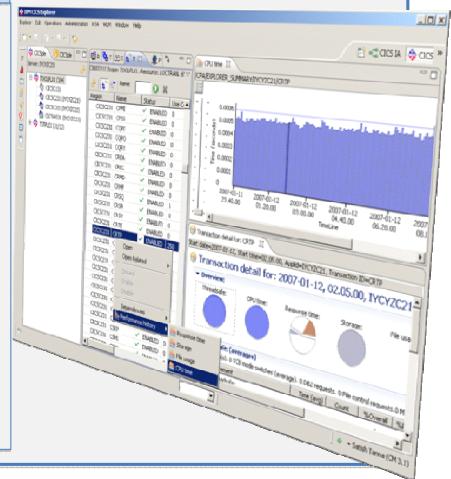




Live Demonstration via CICS Explorer Using PD and CICS tools plug-ins

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

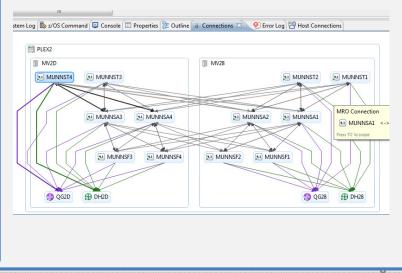
CICS Discovery and Provisioning

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



IBM.

CICS Performance Analyzer for z/OS V5.1

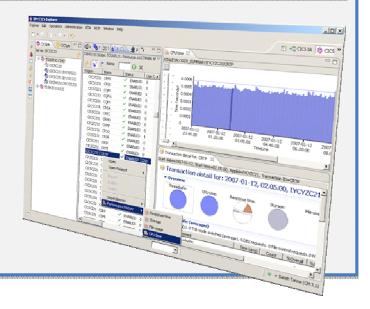
Performance insight

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





CICS Interdependency Analyzer for z/OS V5.1



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





Fault Analyzer for z/OS (FA)

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 ٠
- Java enhancements
- Usability enhancements ٠

FA enables you to...

- Detailed report about program failures ٠
- Fault-history file to track and manage application ٠ failures and fault reports
- · View storage contents, trace tables and terminal screen images at the time of failure
- Customize message descriptions for failure reports ٠
- Control which users can access history files •
- Plug-in support for CICS Explorer, RDz, and IMS **Enterprise Explorer**



IBM Debug Tool for z/OS V12.1

What's new in DT V12.1	DT enables you to
 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 	 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



File Manager for z/OS (FM) V12.1

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	 Select, create, browse, copy, edit, print, and format or reformat data files Manipulate data using COBOL and PL/I record layouts interactively or in batch. Comprehensive, user-friendly, batch and interactive utilities extends standard ISPF Access CICS resources with CICS transaction Audit logging and scrambling allow development and production use SQL Prototyping and Execution Broad product support: Works with, CICS, DB2, IMS and z/OS (QSAW VSAM, PDS, zFS) data Plug-in support for CICS Explorer, RDz, and IMS Enterprise Explorer



CICS Configuration Manager for z/OS V5.1



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... Supports backups created by Backup-Replication logging in support of the ٠ While-Open (BWO) **GDPS-Active-Active availability** Automate recovery solution Test forward recovery and backout Produce disaster recovery reports Batch logging enhancements ٠ Backed-up data CICS TS and

CICSVR

CICSVR complete recovery

- Batch backout improvements
- Migration utility enhancements
- Logstream printing and other usability enhancements



CICS VSAM Transparency for z/OS V2.1



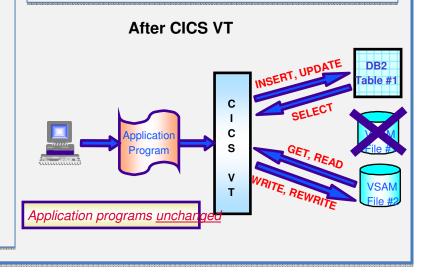
Modernize your CICS and batch VSAM data

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





IBM Workload Simulator for z/OS (WSIM)



Regression and load test interactive z/OS applications

What's new in WSIM V12.1...

 Integrated plug-in for CICS Explorer, RDz, and IMS Enterprise Explorer

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WSIM enables you to...

- Drive 3270 performance test workload on System z
- Broad protocol support
- SNA, CPI-C (LU 6.2), and enhanced TCP/IP support, Telnet 3270, 3270E, and 5250 clients, Telnet line mode network virtual terminal clients, Simple TCP and UDP clients, File transfer protocol (FTP) clients
- Multiple client applications that run on top of TCP/IP
- SNA LU simulation
- Test manager (WTM) guides the user through the test process.
- Extensive run-time, script-generating, and post-test utilities
- ISPF Interface
- Plug-in support for CICS Explorer, RDz, and IMS Enterprise Explorer

CICS and PD Tools Solution

Requirement	Business Flexibility	IT Service Managemen t	Governance & Compliance	Reduced TCO
CICS Deployment Assistant	\checkmark	\checkmark	\checkmark	\checkmark
CICS Interdependency Analyzer	\checkmark	\checkmark	\checkmark	\checkmark
CICS Transaction Gateway	\checkmark			\checkmark
CICS VSAM Transparency	\checkmark	\checkmark	\checkmark	\checkmark
CICS Configuration Manager	\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
File Manager for z/OS	\checkmark		\checkmark	\checkmark
Workload Simulator for z/OS	\checkmark	\checkmark		\checkmark

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CICS Tools

PD 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 ibm.com/cics
- 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 ibm.com/cics/explorer
- CICS Explorer download page http://ibm.com/cics/explorer/download

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 -

http://www.youtube.com/watch?v=Jk3Ydvl8Ino

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> <u>SOA - Links - Issue 3.ppt</u>



Google CICS or check us out at:

ibm/developerworks/cicsdev
 facebook.com/IBMCICS
 twitter.com/IBM_CICS
 twitter.com/IBM_CICS
 youtube.com/cicsfluff
 youtube.com/cicsexplorer





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 CICS Explorer Forum

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

 Image: CICS-L list Forum

 Listserv.uga.edu/archives/cics-I.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

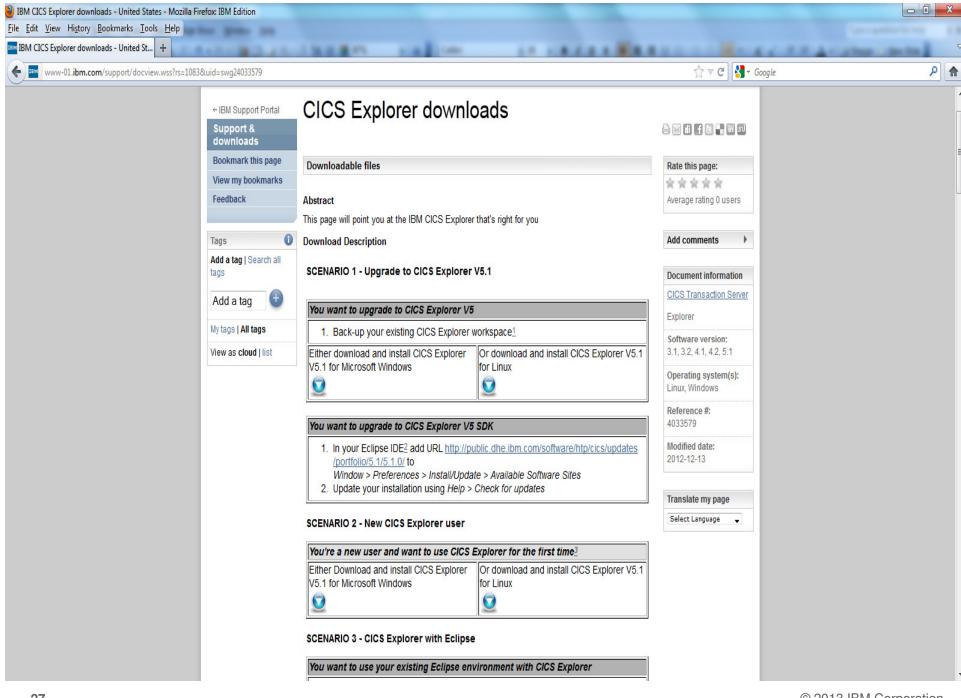
Select Demonstration Screen Shots





CICS Explorer Introduction

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

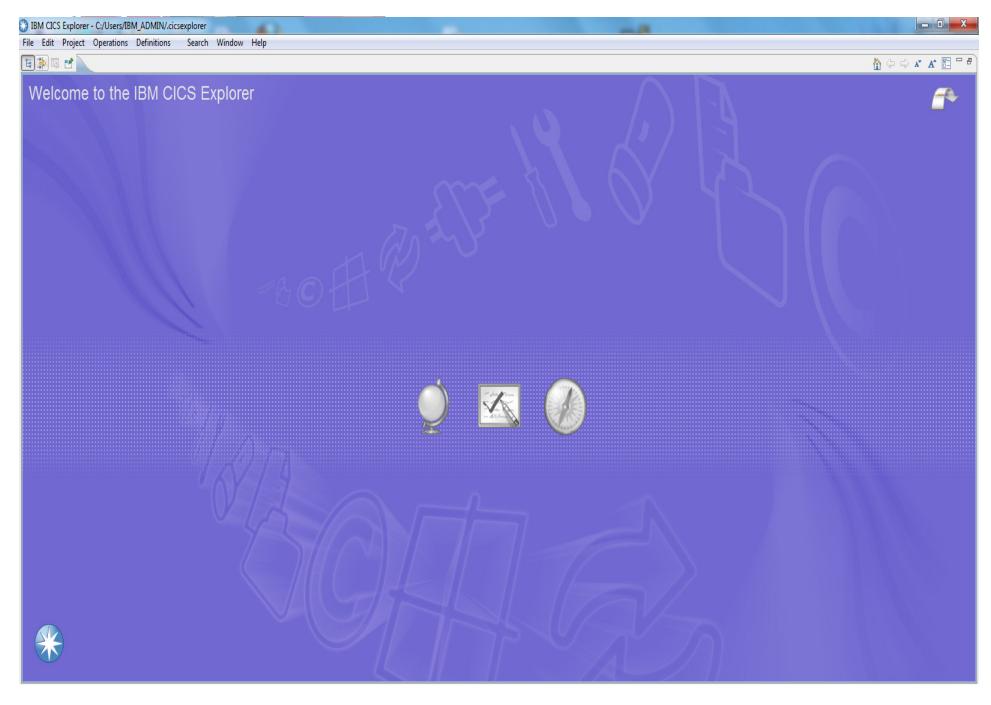


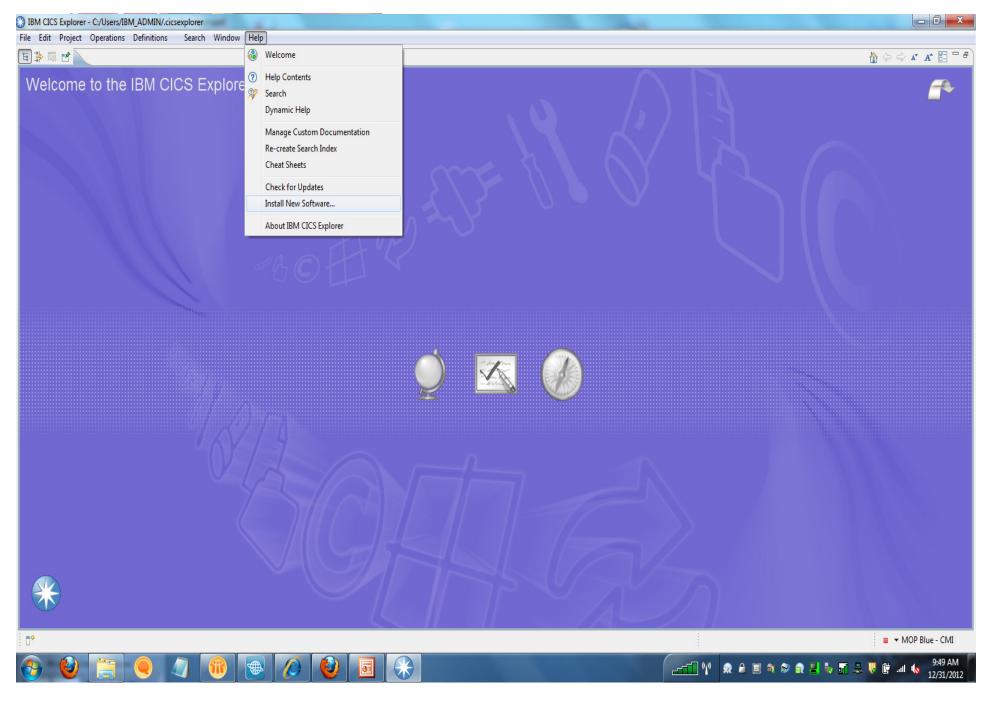
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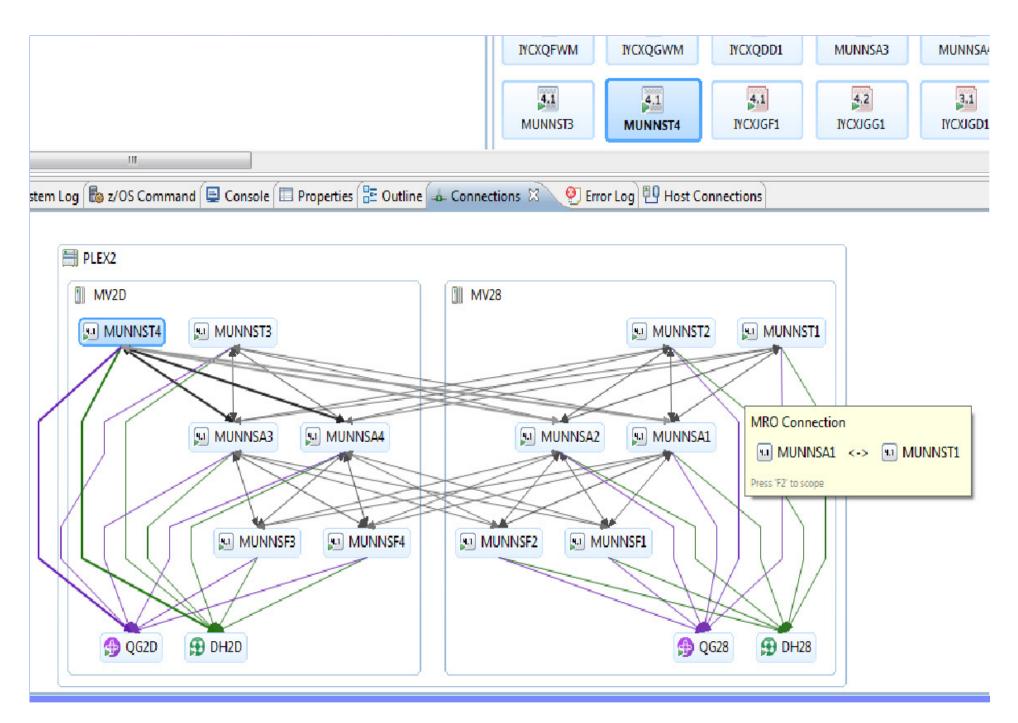




Use CICS and PD tools to Diagnose a real issue

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

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🖉 AORBRCAC (AOR Group CAC BR teste)									
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CICGRP02 (System group for CICSAOR2)									
CICGRP03 (System group for CICSAOR3)									
CICGRP04 (System group for CICSAOR4)									
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🔁 GRP0102 (Grupo aor 1 e 2)	Properties 🕅	🔰 History 🔗 Search	Results 📳 Host Connec	tions					🔋 🛱 🖾 🔁 🗸 🗖
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Transaction response time (average)			
Average Response tir	ne of 3.390625 seconds.		
· .		Average Suspend time 3.389525 seconds, 100 percent of response time	
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 Performance averages at a glance 			
CICS Response time Suspend time detail CPU	time CICS TCB usage Task Stora	usage File Request activity	
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	Response measurement	Time (avg) Count (avg) %Response %Relative	
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Restrict tree nodes to those applicable to visible chart. Include available non-zero values only			

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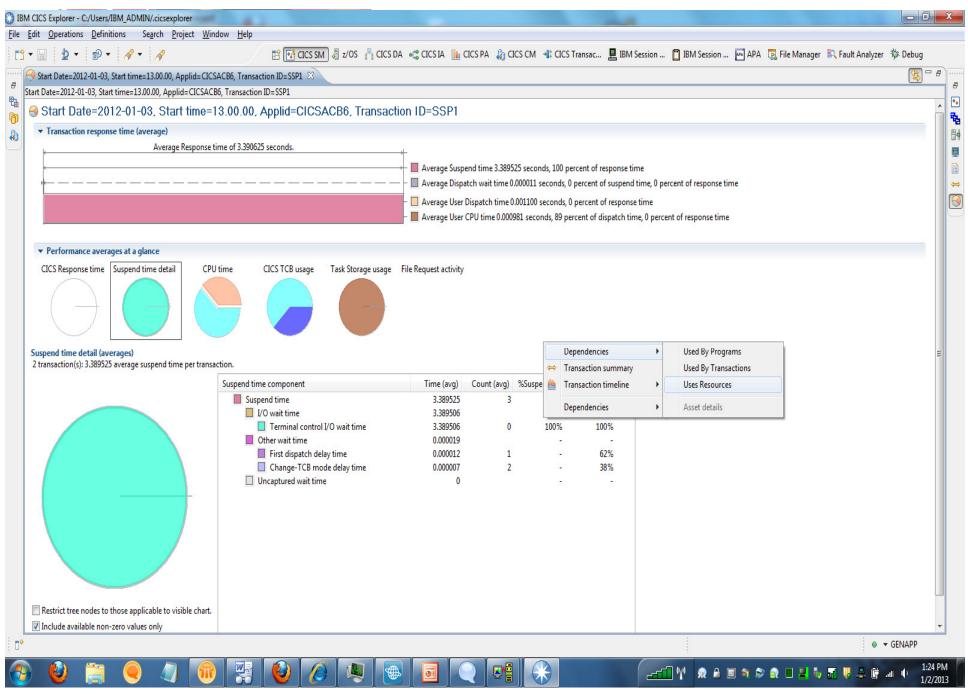
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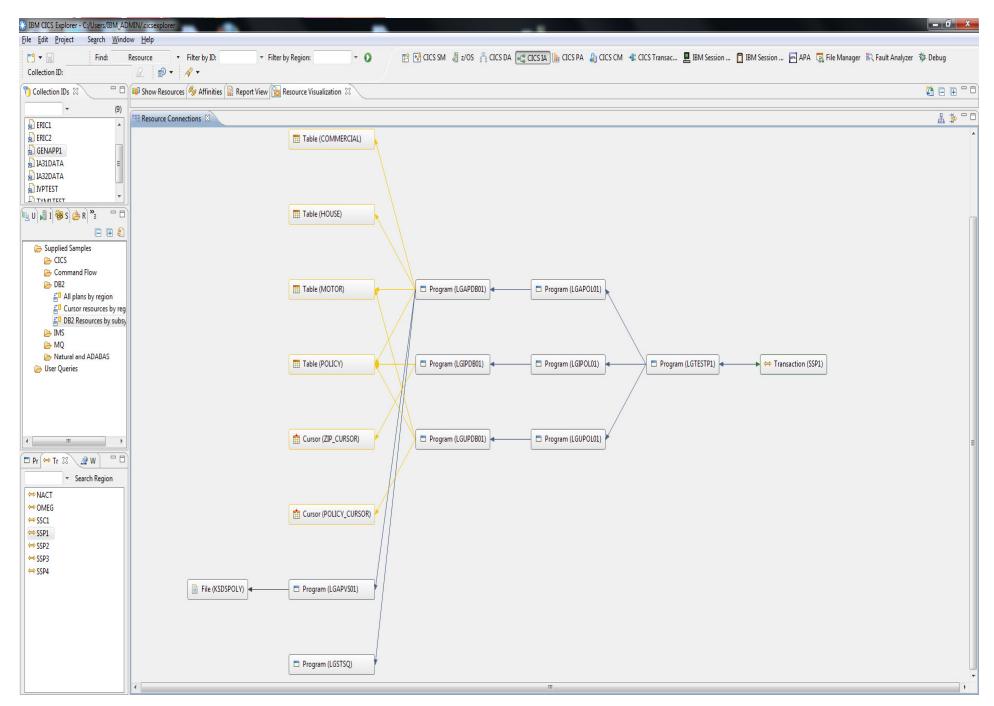
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Resources used 	■ by Resource	CICSACB6 SSP1 LGTESTP1 LGTESTP1	• • CICS IA V3.2 - Demok
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				(21)	🕂 🕆 📄 🕀 Programs using SSP1				
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•	(9)	⊑ 🕀 🗢 🖻 ▼	Transaction(SSP1) in Region CICSACB6	
	 All transactions using files 	(109)	Resources used	 By Resource
AFFTDATA	→ TRANSID (ECDA) (1)	*	🗁 Program (8)	d LGTESTP1
ERIC1	🖕 🛛 🗁 Resource type (FILE) (2)		📑 LGAPDB01 (1)	
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Queri 🖾 💽 Regi 🖬 Appli 🖳 User 🎜 IA O 🞯 Scan 👍 Repo	EQADPFMB		📩 LGAPVS01 (1)	E
	→ TRANSID (ECDB) (1)		📩 LGIPDB01 (1)	
	Resource type (FILE) (2)		📩 LGIPOL01 (1)	
Supplied Samples	ECATALOG		📩 LGTESTP1 (1)	
CICS	EQADPFMB		📩 LGUPDB01 (1)	
➢ Affinities	↔ TRANSID (ECDC) (1)		📩 LGUPOL01 (1)	
➢ Exits	🗁 Resource type (FILE) (2)		🗁 Transaction (1)	
🔁 General	ECATALOG		📣 SSP1 (1)	
E All programs using files	EQADPFMB		🗁 MAPSET (1)	
El All transactions by region	↔ TRANSID (ECDD) (1)		CONDITION (1)	
E ¹ All transactions using files	🗁 Resource type (FILE) (2)		🗁 Map (1)	
E ⁰ Commands in QR mode by program	ECATALOG		🔁 AID (1)	
f ⁰ Programs last used before a given date	EQADPFMB	T	🗁 TEXT (1)	
E Resource usage by program	•tto Used By ⊠		👝 (1)	•
😕 TS41 Migration 🍃 Threadsafe			🐥 🔐 📄 📻 Programs using SSP1	
All programs that issue a GETMAIN SHARED	Programs using File(ECATALOG) in all regions	(10)		
\pm^{0} All programs that issue a GETMAIN	a 🗎 ECATALOG		CICSACB6	
[□] All programs that issue a COMMAN	ECAT30 Endbr,Read,Read next,Startbr		⇔ SSP1	
all programs that issue a LOAD ² All programs that issue an ADDRESS CWA	ECAD10 Write		📑 LGTESTP1	
Part programs that issue an ADDRESS CWA	ECWORKR Read, Read for update, Rewrite			
\equiv° All programs which may have threads afe integrity issues	ECAT35 Read for update, Rewrite, Unlock			
\equiv ⁰ All programs which may have threads are integrity issues \ddagger ⁰ CICS Commands by TCB mode and program				
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🔤 STC Vi 🛛 🖓 🖓	APA Observations List (CAZO) - Rem	note											🔗 🛱 🔗 📫 🖬 🖪	
	ReqNum 🔻	Owned By	Descrip	iption	Job Name			Date/Time			Samples	Status	Del Days	
E DEMOMVS	0560	DNET409			CICSAOR6		1	lan-17 15:34			20,000	Ended	Кеер	
CAZO (default)	0559	DDS1687	Focus o	on SSP1 txn	CICSAOR6		1	lan-16 14:18			2,000	Ended	Кеер	
	0558	DDS1687			CICSAOR6			lan-16 14:02			1,000	Ended	Кеер	
	0557	SYS028			ect contra DIST DSNADIST			lan-14 10:45			60	Ended	Кеер	
	0556	SYS028		a de db2 conn				lan-14 10:43			5,000	Ended	Кеер	
	0555	SYS028		a de db2 conn				lan-14 10:38			5,000	Ended	Кеер	
	0554	SYS028		a de db2 conn				lan-1105:30			60	Ended	Кеер	
	0549 0544	SYS028 SYS028		a de db2 conn a de DB2	ect DSNADIST LISCLAJ			Dec-18 11:12 Dec-18 09:28			60 177		Кеер Кеер	
	0541	DNET461	Carina		CICSAOR5			Dec-10 09:20 Dec-17 12:51			50,000	Ended	Keep	
	0540	NM16144	Vene		VALPA2			ec-14 14:52			15,000	Ended	Кеер	
	0539	SYS028		a de db2 conn				Dec-13 07:15			60		Keep	
	0535	NM16144		te por 0c4 ven				Dec-12 07:45			1,000	Ended	Keep	
	⊕ 0526	DNET461	pru		DNET461X			Dec-11 14:08				Steps	Кеер	~
		~			Total Service Time by Txn (0560/Cl	M GROUP								
	Details (0560) E Reports (0560)			EUS: CICS	Total Service Time by Txn (0560/Cl	CSAURE) 23	<u> </u>							
	C02 - CPU Usage by Module	292	<u>^</u> E	E05: CICS 1	Fotal Service Time by Txn (056	0/CICSAOR6)								
	C03 - CPU Usage by Code Slic	e												
🔤 STC Pr 🕺 📃 🗖	C04 - CPU Usage Timeline			Name	NTxns Description	Error E	vecution	otal Time in + <u>Suspend</u> +	1 Seconds	Service				
	C05 - CPU Usage Task/Catego C06 - CPU Usage Task/Module			Name	MIXINS DESCRIPTION		ACCULION	+ <u>Susperiu</u> +	Deray	- <u>Service</u>				
Property Value	C07 - CPU Usage by Procedur													
DSNHLQ APA.V12R1 Job CAZ0	C08 - CPU Referred Attributio			CSSY	3	±58.8%	0.000	359.940	0.000	359.940				~
Started 2013-01-19 1	C09 - CPU Usage by PSW/Obj			CINB CONL	1	±99.9%	0.000	119.980	0.000	119.980				
Sysplex CAZPLEX	D - DASD I/O Analysis	couc		CINT	1	±99.9% ±99.9%	0.000	119.980 119.980	0.000	119.980 119.980				
Version 12.10F	W - CPU WAIT Analysis			CSNC	1 IRC connection	±99.9%	0.000	119.980	0.000	119.980				
	W01 - Wait Time by Task/Cate	egory			manager									
	W02 - Wait Time by Task/Mod	lule		CSKL CFQR	1 TCP/IP Listener	±99.9% ±99.9%	0.000	119.980 119.980	0.000	119.980 119.980				
	W03 - Wait Time Referred Att			CTSM	1	±99.9%	0.000	119.980	0.000	119.980				
	W04 - Wait Time by Task ENQ	/RESERVE		CISM CISR	1	±99.9%	0.000	119.980	0.000	119.980				
	W05 - Wait Time by Tape DDN	IAME	9	CSHQ	1 Scheduler Servi		0.000	119.980	0.000	119.980				
	E - CICS Measurement			CEX2	1 CICS/DB2 Servic Transaction	e ±99.9%	0.000	119.980	0.000	119.980				
	E01 - CICS Session Statistics			COIE	1	±99.9%	0.011	119.956	0.011	119.980				
	E02 - CICS CPU and Use Coun	nts by Pgm		COIO	1	±99.9%	0.000	119.980	0.000	119.980				
	E03 - CICS CPU Usage by Txn			CSNE CISP	1 VTAM node abnor	ma ±99.9% ±99.9%	0.000	119.980 119.980	0.000	119.980 119.980				
	E04 - CICS Mean Service Time			CISE	1	±99.9%	0.000	119.980	0.000	119.980				
	E05 - CICS Total Service Time			CFQS	1 RLS Quiesce	±99.9%	0.000	119.980	0.000	119.980				
	E06 - CICS Service Time by Ta	ask Id		CEPF	1	±99.9%	0.000	119.980	0.000	119.980				
	E07 - CICS Wait by Txn	1002000		CSTP CEPM	1	±99.9% ±99.9%	0.000	119.980 119.980	0.000	119.980 119.980				
	E08 - CICS Mean Service Time			CSOL	1 TCPIP Listener	±99.9%	0.000	119.980	0.000	119.980				
	E09 - CICS Total Service Time			SSP1	4	+50,0%	0.000	78.610	0.000	78.610				
	E10 - CICS Mean Service Time			+ LGTEST	P1 CICS Program		0.000	78.610	0.000	78.610				
	E11 - CICS Total Service Time E12 - CICS CPU/Service Time			- <u>CICS</u>	System Services System Services SIOWAIT Wait on Termir		0.000	78.610 78.610	0.000	78.610 78.610				
		by fransaction												
	G - Coupling Facility			CSAC	1 Abnormal condit		0.005	0.000	0.000	0.005				
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	CNX0211I Co	ontext: CIC	SAOR6. Reso	urce: PR	OGRAM. 25 record	s collect	ed at Jan 22,	2013 10:02:	:47 AM							D (1 C		
	Region		Name		tatus	Use Co				Language	Sha	are Status	CEDF	Status	NEWCOPY Status	Profile Ove	rview	
	CICSAOF	R6 L(GACDB01	~	ENABLED	0		0		LE370	PRI	VATE	CEDF	N	VOTREQUIRED			
(ACTIVE)	CICSAOF	R6 L0	GACUS01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	General inform	nation	
	CICSAOF	R6 L0	GACVS01	~	ENABLED	0		0		COBOL	SHA	ARED	CEDF	N	VOTREQUIRED	Name:	10	ocal 1
	CICSAOF	R6 L0	GAPDB01	~	ENABLED	0		0		COBOL	PRI	VATE	NOCED	F N	VOTREQUIRED			
ACB1)	CICSAOF	R6 L0	GAPOL01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Description:	De	ebug LGTESTP1
ACB2)	CICSAOF	R6 L0	GAPVS01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Profile owner us	er ID: DI	DS1687
ACB3)	CICSAOF	R6 L0	GDPDB01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			
ACB4)	CICSAOF	R6 L0	GDPOL01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Pattern match	ing resou	urces
ACB5)	CICSAOF	R6 L0	GDPVS01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Resources to o	debug —	
ACB6)	CICSAOF	R6 L(GICDB01	~	ENABLED	1		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Transaction Id		Terminal Id: Z00
ACB7)	CICSAOF	R6 L0	GICUS01	~	ENABLED	1		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			
ACB8)	CICSAOF	R6 L0	GICVS01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Load Module	and Comp	oile Unit (maximum 8 pairs)
)	CICSAOF	R6 L0	GIPDB01	~	ENABLED	22		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Load Modu	ıle	Compile Unit
/UI)	CICSAO	R6 L0	GIPOL01	~	ENABLED	22		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	*		LGTESTP1
Group CAC BR teste)	CICSAOF	R6 L(GIPVS01	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	l		
Group 1)	CICSAOF	R6 L0	GSETUP	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			
Group 2)	CICSAOF	R6 L0	GSTSQ	~	ENABLED	0		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	User Id:	DDS	1687 NetName:
Group 3)	CICSAOF	R6 L0	GTESTC1	~	ENABLED	2		0		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			ite tailer
m Group for CICSAOR 1)	CICSAOF	R6 L0	GTESTP1	~	ENABLED	28	Open			COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	IP Name/Addre	ess:	
m group for CICSAOR2)	CICSAOF	R6 L(GTESTP2	~	ENABLED	0	open		-	COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Commarea -		
m group for CICSAOR3)	CICSAOF	R6 L0	GTESTP3	~	ENABLED	5	New Cop	y .		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			
m group for CICSAOR4)	CICSAOF	R6 L0	GTESTP4	~	ENABLED	0	Phase Ir	1		COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Offset: 0		Data:
m group for CICSAOR5)	CICSAOF	R6 L0	GUPDB01	~	ENABLED	0			-	COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Container —		
Numbered Regions)	CICSAOF	R6 L0	GUPOL01	~	ENABLED	0	Discard			COBOL	PRI	VATE	CEDF	N	VOTREQUIRED			
aor 1 e 2)	CICSAOF	R6 L0	GUPVS01	~	ENABLED	0	Enable			COBOL	PRI	VATE	CEDF	N	VOTREQUIRED	Name:		Offset: 0 Da
							Disable											
+AOR3)							Copy	Ctrl+C								URM Debugging	g: NO	✓ Profile Status: INACT
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Numbered AOR Regions)							DICN			nage profile	5					Test run time o	options	
EM GROUP SERASA)										loge prometti	1					Test Type:	TEST	Test Level: ERROR
Group teste REFRESH)																rest rype.		
M CREATE A CICS GROUP)	<u> </u>	-					1									Prompt:	PROMPT	Г
1 Demo AOR Group - Target Regions)	🔲 Propertie	es 👰 Erro	or Log 🔁 Ha	ist Conne	ections 🔣 DTCN I	Local Pro	ofiles 🔣 DT	CN Server Pr	rofiles 8	🛿 🔪 🗖 DTSP Pr	ofile				🗆 🖌 🤣 🕌 🗖			
	Owner	Status	Tran	Ter	Load Module	Com	pile Unit 🛛 L	ser Id S	Sess	Session Addr	Port#	Test	Level	Commands File	Preference File	Session Addres	s or Termi	nal Id: 9.55.177.75 Port: 8006
	DDS1687	Active		2002	*				TCP	9.55.177.75	8006	TEST	ERROR	*	*	Commands File:	*	
	D051067	Inactive		2002	CD*				MFI	Z002	0000	TEST	ALL	*	*			
	DNET246	Inactive		2002	CDAT1		* D	VET246	MFI	Z002		TEST	ERROR	*	*	Preference File:	*	
	DNET249	Inactive			*	CE	DAT2		MFI	0073		TEST	ALL	*	*	EQAOPTS File:		
	DNET409	Active	SSC1 Z	2004			D	NET409	TCP	9.77.133.203	8001	TEST	ALL	*	*			
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Platfor	[Incoming Remote Debug Session] m: zOS 390X Connection: demomvs.demopkg.ibm.com:10977 read:1 (Runnable) LGTESTP1: 01 s: 610284592 Program: LGTESTP1	
🛃 Local 1	& Local 2	- D 🔚 Outin 🛛 - D
Line 14	Column 1 Insert Browse	An outline is not available.
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1 2 3 4 5 6 7 8 9 10 11 12 13 • 14 15 16 17 18	**************************************	
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call %ver		▲ 0 call %ver
	M Debug Tool Version 12 Release 1 Mod 0 09:47:00 AM Level: V12R1 PM78569	
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 □ LGTESTP1 [Incoming Remote Debug S □ Platform: zOS 390X Connection: □ Platform: zOS 390X Connection: □ Platform: zOS 390X Connection: □ Process: 610284592 Program: LG 	ession] demomvs.demopkg.ibm.com:27414	+ × 🔆 🖕 🛃 🖻 🐮 🛅 🗎
😹 Local 1 🛛 😹 Local 2	DNET409.CB12.COBOLST(LGTESTP1)	- D 🔚 Outlin 🛛 - D
Line 774 Column 1	Insert Browse	An outline is not available.
	3+4+5+6+7+8+9+- END-IF	10
767	Move CA-ISSUE-DATE TO ENPIIDAI	
768	Move CA-EXPIRY-DATE TO ENPIEDAI	
769	Move CA-M-MAKE To ENPICMKI	
770	Move CA-M-MODEL To ENPICMOI	
771	Move CA-M-VALUE To ENPIVALI	
772	Move CA-M-REGNUMBER TO ENPIREGI	
773	Move CA-M-COLOUR TO ENPICOLI	
• 774	Move CA-M-CC To ENPICCI	
775	Move CA-M-MANUFACTURED TO ENPIMANI	
777	EXEC CICS SEND MAP ('SSMAPP1')	
778	FROM(SSMAPP1O) MAPSET ('SSMAP')	
779	END-EXEC	
	END-EXEC	~
🔄 Console 🕼 Debug Console 🞼 DTCN S	erver Profiles 😹 DTCN Local Profiles 📋 Memory 🙁	
Monitors 📲	🗱 🙀 ENP1COLI : 0x2460EECB <hex (single="" and="" char="" pane)=""> 🖂 🚽 New Renderings</hex>	
	0x2460EECB C2D3E4C5 40404040 00000000 00000000 00000000 000000	BLUE FFFFFFFFFFFFFFFF
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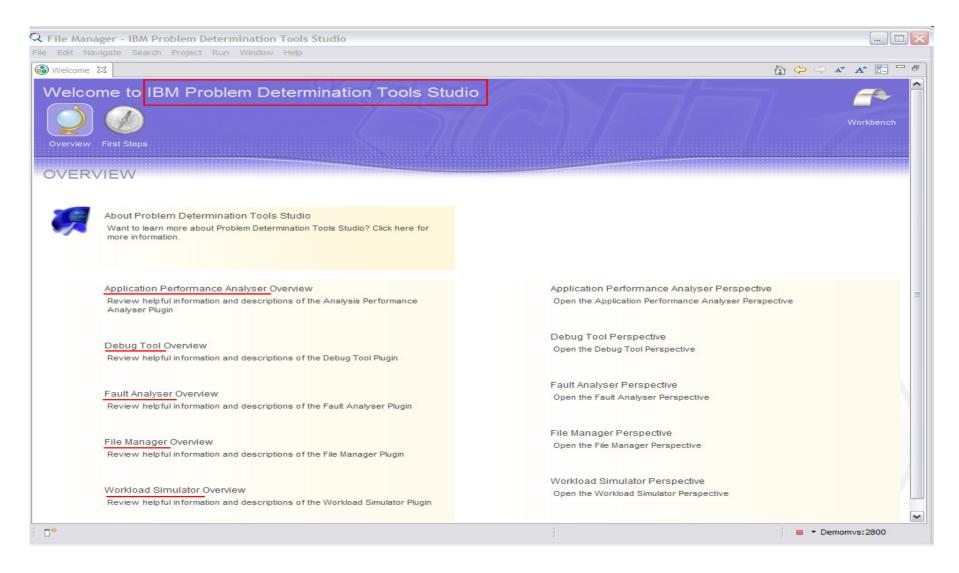
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BM CICS Explorer - C:/Users/IBM_ADMIN/.cicsexplorer

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The LGTESTP3 program has been fixed....

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

Configurations	🐁 Change Packages 🛛 🔗	🗖 🗖 🔗 Search Resi	ults 🔒 Transa	ction Defini	Program	Definitio 🔒 File D	efinitions 📑 T	D Queue Defi	niti 🗌 🗖	📮 Transaction Definition (SSP1) 🕱
		(12)			-		🗞 🚆 Name	2:	0 x ^{\[\]}	Transaction Definition (SSP1)	
Vame	CSD/Context	CNX0211I Cont	ext: GENASA2.	Resource: TRAND	EF. 4 records co	ollected at Jan 2, 2013	1:39:53 PM			Attributes	
	CICSTS.CICSAOR1.DFHCSD	Name	Version	Crea	ate Time	Change Time	Description	Status			
CICSAOR1	CICSTS.CICSAORLDFHCSD	SSP1	0	Jan 2	2, 2013 12:38:	Jan 2, 2013 12:38:		ENAB	LED	🖫 CSDAOR6 🕨 💁 CSDAOR	5 🕨 📙 SSP1 🔻
	CICSTS.CICSAOR2.DFHCSD	TEST	0	Apr	27, 2012 8:25	Sep 25, 2012 9:10		ENAB	LED	Desarch	Value
	CICSPLX1	TES2	0	Jun 3	3, 2012 6:55:	Jun 3, 2012 10:15	demo transac	tion ENAB	LED	Property	value
		TES3	0	Jun 4	4, 2012 1:39:	Sep 25, 2012 9:11	demo test	DISAE	LED	Alias	
CSDAOR5	CICSTS.CICSAOR5.DFHCSD									Basic	
	CICSTS.CICSAOR6.DFHCSD									Definition Signature	CSDAPI
CSDAOR7	CICSTS.CICSAOR7.DFHCSD									Change Agent Change Release	0670
CTS32CSD	CICSTS.V3R2.DFHCSD									Change Time	Jan 2, 2013 12:40:25 PM
CTS41CSD	CICSTS.V4R1.DFHCSD									Change User ID	DNET409
CTS42CSD	CICSTS.V4R2.DFHCSD									Create Time	Jan 2, 2013 12:38:59 PM
© EWHSTAGE	DNET409.STAGE.DFHCSD									Details	30112, 2013 12:30:35 1 W
LIVECMSR	CICSTS.CICSCM.DFHCSD									Brexit	
(Isolation	YES
Group List Definitions	🗐 Groups 🛛 🦉 🤣									Partitionset	
EN* in (CSDAO	(6)	(6)								Profile	DFHCICST
GENA						<u>1</u> .		-0.4	AVDE	Program Name	LGTESTP1
GENASAD		History 🖾						🗗 🔁	<u>∲ ∧ n D</u>	Runaway Time	SYSTEM
GENASAF		Resource Histo	ry for SSP1 from	n 2012/10/02 13:39	9:56 to latest en	itry				Shutdown	DISABLED
GENASAP		Revision Time		Resource Nam	ne/After Re	esource Type/Before	Group	User Name	Configurati	Storageclear	NO
GENASAT		0 2013/0	1/02 12:40:25	SSP1	TR	RANDEF	GENASA2	DNET409	CSDAOR6	Task Data Key	USER
GENASA2		🖇 tra	nclass	DFHTCL09	DF	FHTCL00				Task Data Location	ANY
- OLIVASA2		2013/0	1/02 12:38:59	SSP1	TR	RANDEF	GENASA2	DNET409	CSDAOR6	Twasize	0
		2013/0	1/02 12:38:04	SSP1	TR	RANDEF	GENASA2	DNET409	CSDAOR6	In Doubt	
		0 2012/1	2/31 10:41:46	SSP1	TR	RANDEF	GENASA2	DNET409	CSDAOR6	Recovery	
										Remote	
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										Priority	1
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👌 Configurations 🖾	🖶 Change Packages		Ilts 📙 Transaction Definitions 🛛			🛓 TD Queue l	Definitions		\$\$ ¥1 \$	Name:	0 X [~]
		(12) CNX0211I Con	ext: GENASA2. Resource: TRANDEF.	4 records collected at Jan 2, 201	2:02:10 PM						
Name	CSD/Context	Name	Version	Create Time		Change Tir	ne	Descripti	ion	Status	
		SSP1	0	Jan 2, 2013 12	:38:59 PM	Jan 2, 2013	12:40:25 PM			ENABLED	
CICSAOR1	CICSTS.CICSAOR1.DFHCSD CICSTS.CICSAOR2.DFHCSD	≡ TEST	0	Apr 27, 2012 8	:25:27 AM		2 9:10:38 PM			ENABLED	
	CICSTS.COMMON.DFHCSD	TES2	0	Jun 3, 2012 6:	55:44 PM	Jun 3, 2012	10:15:27 PM	demo tra	ansaction	ENABLED	
	CICSPLX1	TES3	0	Jun 4, 2012 1:	39:41 PM	Sep 25, 201	2 9:11:06 PM	demo te	st	DISABLED	
CSDAOR5	CICSTS.CICSAOR5.DFHCSD										
CSDAOR6	CICSTS.CICSAOR6.DFHCSD										
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Group List Definition	is 🛙 🧄 👯 Name: GEN* 🚺										
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NX0211I Context: CSD/	AOR6. Resource: CSDGROUP. 6 records collected at	Jan 2, 2013									
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ENASAF ENASAP	N/A	Resource Histo	Dependencies	▶ entry						California	
GENASAF GENASAP GENASAT GENASA2	N/A N/A	Resource Histe Revision Tim		Resource Type/Before	Group	User Name	Configuration	Command	Change Package	Scheme	
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CICSAOR2	CICSTS.CICSAOR2.DFHCSD	E TEST TES2	New from			, 2012 8:25:27 AM 2012 6:55:44 PM		12 9:10:38 PM 2 10:15:27 PM	James Au	ansaction	ENABLED ENABLED	
CICSCM	CICSTS.COMMON.DFHCSD	TES3	New Homa			2012 0:33:44 PM 2012 1:39:41 PM		12 9:11:06 PM	demo te		DISABLED	
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	CICSTS.COMMON.DFHCSD								Property	Value	
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CSDAOR6	CICSTS.CICSAOR6.DFHCSD								Definition Signature		
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CPSMBAS	CICSPLX1		-						//* - CANDIDATES: data obtained from both CSD and CPSM
CSDAOR5	CICSTS.CICSAOR5.DFHCSD							-	//*
CSDAOR6	CICSTS.CICSAOR6.DFHCSD							-	//DEPLOY EXEC PGM=CCVBMAIN
CSDAOR7	CICSTS.CICSAOR7.DFHCSD								//STEPLIB DD DISP=SHR, DSN=CICSCM.V2R1.SCCVAENU
CTS32CSD	CICSTS.V3R2.DFHCSD								// DD DISP=SHR, DSN=CICSCM.V2R1.SCCVAUTH
CTS41CSD	CICSTS.V4R1.DFHCSD							-	//CCVPRINT DD SYSOUT=*
CTS42CSD	CICSTS.V4R2.DFHCSD								//CCVREPRT DD SYSOUT=* * OUTPUT REPORT RESULTS
EWHSTAGE	DNET409.STAGE.DFHCSD								//CCVFLTEX DD SYSOUT=* * OUTPUT SAMPLE FILTER STATEMENTS
LIVECMSR	CICSTS.CICSCM.DFHCSD		-						//*CCVFLTEX DD DSN=DNET409.CCV.DAFILTER,
ULIVECIVISI	CICSTS.CICSCM.DITICSD							-	<pre>//* UNIT=SYSDA, SPACE= (TRK, (10,100), RLSE), //* LRECL=80, RECFM=FB, BLKSIZE=3200, DSORG=PS,</pre>
Group List Definitions	C 82	 €] % ⊏ □	1						<pre>//* LRECL=80, RECFM=FB, BLKSIZE=3200, DSORG=PS, //* DISP=(,CATLG,CATLG)</pre>
Group List Definitions	E Groups 23	<u>₹</u>	-						//CCVPARMS DD *
N* in (CSDAO	R6)	(6)						F.	CONNECT IPADDRESS=DEMOMVS.DEMOPKG.IBM.COM, PORT=6023, SSL=NO
GENA			Autom	M			n 🔁 🖓		
GENASAD			History						REPORTSET=1,
GENASAF			Resource His	story for SSP1 f	rom 2012/10/02	13:39:56 to la	itest entry		TYPE=RUNTIME,
GENASAP			Revision Ti	me	Resource	Name/After	Resource	Type/Be	
GENASAT			0 2013	3/01/02 12:40:2	5 SSP1		TRANDER		CONNECTION=AOR6,
GENASA2			0 2013	3/01/02 12:38:5	9 SSP1		TRANDER		PHASE=COLLECT,
			0 2013	3/01/02 12:38:0	4 SSP1		TRANDER		REPORTSET=2,
			0 2012	2/12/31 10:41:4	6 SSP1		TRANDER		TYPE=CANDIDATES, CONFIGURATION=CSDAOR6,
									GRPLIST=LISTAOR6,
									GRPLIST=DFHLIST,
									LOCALSYSID=C22F,
									PHASE=REPORT,
									TYPE=COLDSTARTCOMPARE
									//* FILTERDATASET=DNET409.CCV.DAFILTER
									11
								•	Runtime coldstart compare.jcl
(i) 17E01001 Cooper	ected user DNET409 to host demomvs.de	monka ihm com on i	22207				Writable		Insert 35:3 • TemoMVS z
			JUIL 32207	1			11	- W	
		🦷 🙆 🛛	62 1						

		ect <u>W</u> indow <u>H</u> elp			_	1200	
• 🗟 🖢 🔹 🖻 🔹	A • A		😭 💽 CICS SM 👌 z/OS 👖 C	ICS DA 📲 CICS IA 📗 CICS PA 👔 CICS CM 📲 CICS Transa	c 📕 IBM Se		📋 IBM Session 🔤 APA 🛛 🕵 File Manager 🖹 Fault Analyzer 🕸 Debug
🕽 Configurati 🛛 🗄 C	Change Pac 🛛 🗖 🗖	🔗 Search Results Tr	ansaction Definitions 🛛 📄 🖡	rogram Definitions 🖹 File Definitions 🗟 TD Queue Definitions		- 6	🕒 📔 Transaction Definition (SSP 🛛 🗐 *Runtime coldstart compar 🛛
	Ŷ	History 🛛			ى 🛃 🚱	<u>ه ∼ ⊏</u> [0
	(12)						JOB COLDSTCM, NOTIFY=&SYSUID.
Name	CSD/Con *	🐻 z/OS Job 🛛			Ş	🖥 🤣 🗖 E	
		Job ID: JOB06609	Name: CCVJB1A User: DN	ET409 Status: ACTIVE			//*
CICSAOR1	CICSTS.C	JESMSGLG	12013/01/02 12:55	CICS Configuration Manager V2.1	Page	1	//* CCVBMAIN - COLD START COMPARE //* - RUNTIME: data obtained via C
CICSAOR2	CICSTS.C		H2013/01/02 12:55	Batch Utility	Page	1 4	<pre>//* - RUNTIME: data obtained via C: //* - CANDIDATES: data obtained from H</pre>
	CICSTS.C	JESJCL		Batch otility			//*
CPSMBAS		JESYSMSG		CICS Deployment Analysis Report			//DEPLOY EXEC PGM=CCVBMAIN
CSDAOR5	CICSTS.C	CCVPRINT		Cold Start Compare Report			//STEPLIB DD DISP=SHR, DSN=CICSCM.V2R1.SCCVAE
CSDAOR6	CICSTS.C	CCVREPRT		Report Options			// DD DISP=SHR, DSN=CICSCM.V2R1.SCCVAU
CSDAOR7	CICSTS.C						//CCVPRINT DD SYSOUT=*
CTS32CSD	CICSTS.V.		CONNECT IPADD	RESS=DEMOMVS.DEMOPKG.IBM.COM, PORT=6023,SSL=NO)		//CCVREPRT DD SYSOUT=* * OUTPUT REI
CTS41CSD	CICSTS.V-		DEPLOY PHASE	=COLLECT,			//CCVFLTEX DD SYSOUT=* * OUTPUT SAM
CTS42CSD	CICSTS.V.			EPORTSET=1,			//*CCVFLTEX DD DSN=DNET409.CCV.DAFILTER,
< III	Þ			YPE=RUNTIME,			//* UNIT=SYSDA, SPACE=(TRK, (10, 100), H
]		ONFIGURATION=CSDAOR6,			//* LRECL=80, RECFM=FB, BLKSIZE=3200, I
Group List Definit 📃 Gro	oups w			ONNECTION=AOR6, =COLLECT,			//* DISP=(,CATLG,CATLG)
	(]			EPORTSET=2,			//CCVPARMS DD * CONNECT IPADDRESS=DEMOMVS.DEMOPKG.IBM.CO
GEN* in (CSDAOR6				YPE=CANDIDATES,			DEPLOY PHASE=COLLECT,
	, (0)			ONFIGURATION=CSDAOR6,			REPORTSET=1,
E GENA			G	RPLIST=LISTAOR6,			TYPE=RUNTIME,
E GENASAD			G	RPLIST=DFHLIST,			CONFIGURATION=CSDAOR6,
E GENASAF			L	OCALSYSID=C22F,			CONNECTION=AOR6,
E GENASAP				=REPORT,			PHASE=COLLECT,
E GENASAT				COLDSTARTCOMPARE,			REPORTSET=2,
GENASA2			FILTE	RDATASET=DNET409.CCV.DAFILTER			TYPE=CANDIDATES,
				End of Section			CONFIGURATION=CSDAOR6,
			12013/01/02 12:55	CICS Configuration Manager V2.1	Page	2	GRPLIST=LISTAOR6,
			12013/01/02 12.33	Batch Utility	raye	2	GRPLIST=DFHLIST, LOCALSYSID=C22F,
				Bason oblitoy			PHASE=REPORT,
				CICS Deployment Analysis Report			TYPE=COLDSTARTCOMPARE,
				Cold Start Compare Report			FILTERDATASET=DNET409.CCV.DAFIL
				Data Sources			11
			•				Runtime coldstart compare.icl
					1	,	
				Writable Insert	17 :	: 4	TemoMVS





End of Demonstration Screen Shots