



Simplify your infrastructure







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Session 4. Abstract

Looking for ways to accelerate the transfer of knowledge, skills, and best practice to the next generation of technical experts? Need to maintain productivity and protect service levels? CICS Explorer and zEnterprise lead the way to infrastructure simplification. In this session, you will learn how to identify and package applications in a more flexible way, increase your utilization of zAAP processors, reduce dependency on SNA, improve the throughput of your CICSplex, and simplify the authentication of distributed CICS users. You will also see how the CICS Explorer offers a much more powerful tooling environment that can improve the productivity with a more intuitive experience.





Agenda

- IP Connectivity in CICS
- ID Propagation and Pass phrase support
- CICSPlex SM Workload Manager
- JVM Servers
- Threadsafe optimization
- CICS Explorer
- CICS Configuration Manager
- CICS Deployment Assistant



CICS Support for IPv6

- Allow for IPv4, IPv6 or host names in:
 - Resource definitions
 - Application Programming Interface
 - Systems Programming Interface
 - User Replaceable Modules
 - Global User Exits
 - Monitoring Records
 - CICS Explorer V1.1







IP Interconnectivity

- CICS IP interconnectivity strategy
 - Transactional IP communications protocol for connectivity between and into CICS
 - Long term plan to provide CICS with IP choice for most of the CICS programming model

CICS TS V4.2 enhancements

 – IPIC Function Shipping for File Control, Temporary Storage, Transient Data

Prior releases

- Distributed Program Link
- 3270 transaction routing
- Asynchronous Starts





Identity Context Propagation

- z/OS Identity Propagation initiative to provide asserted identity for end-to-end distributed security
 - Logically tie together distributed end-user identities with z/OS userids
 - Enhance the ability for z/OS applications to participate centrally in SOA solutions
 - Requires z/OS 1.11
- ID Context Propagation allows an end user's identity to be propagated through to CICS
 - Currently, the end users' identity is lost before the request gets to CICS





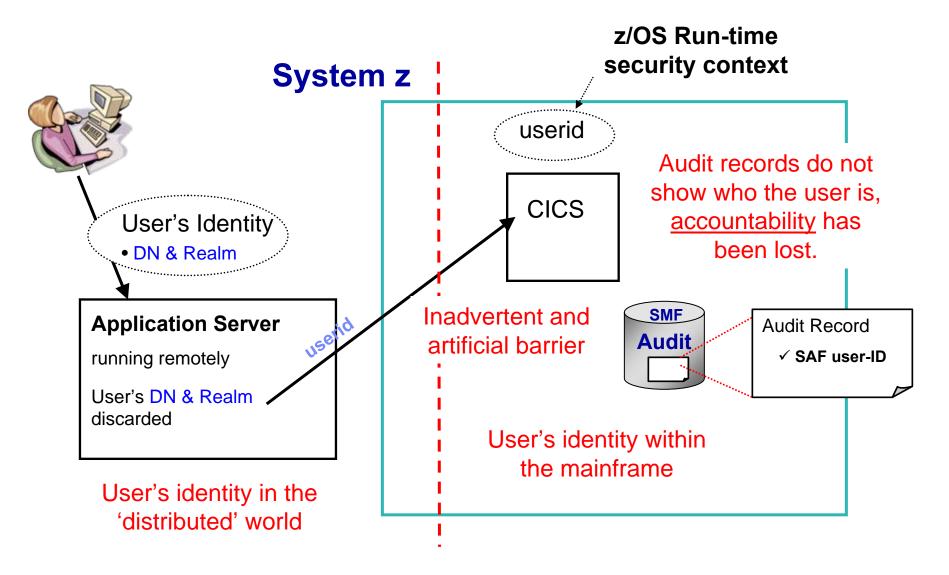
Identity Context Propagation...scenarios

- Support for Inbound Web services, propagating on as Web Service provider
 - Provides support for Web Services callers
- Support for Inbound over IP Interconnectivity (IPIC)
 - Used by CICS TG when operating as a WebSphere connector
 - Will require use of JCA resource adapter
- Sysplex Support
 - CICS will propagate on over MRO and IPIC Connections only





Identity Propagation – current problem







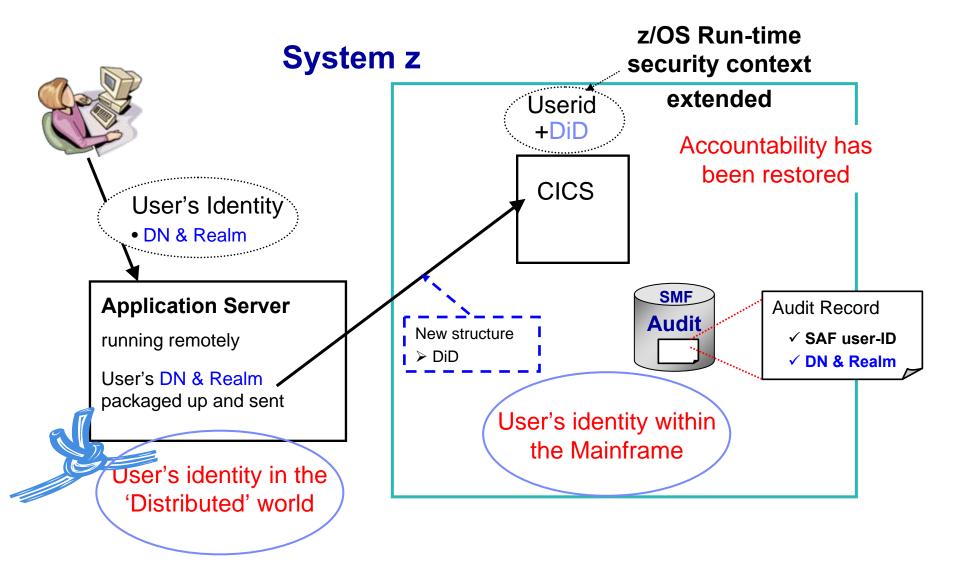
Remedy

- Platform-architected Distributed Identity solution that subsystems participate in
- An asserted identity for end-to-end distributed security
- That logically ties together distributed end-user identities with userids on the host
- An Identity Context Reference that flows in a trusted way
 - X.500 distinguished name of end-user
 - X.500 DN of original registry
 - Optional SAF userid





Identity Propagation – solution





Password Phrase Support

Background

- Introduced in z/OS 1.8
 - 14-100 character password phrases
- Updated in z/OS 1.9
 - 9-100 character password phrases if ICHPWX11 installed
- Alternative to traditional passwords
 - Improved system security harder to attack, Easier to remember
- Must be a text string of 9-100 characters
 - Characters A-Z, a-z, 0-9, special characters, punctuation, blank, any character that can be typed on TSO command
- Functions that support password phrases
 - API EXEC CICS SIGNON, EXEC CICS CHANGE PHRASE, EXEC CICS VERIFY PHRASE, EXEC CICS WEB SEND or CONVERSE
 - Transactions CESL, CEDF
 - Other CMCI, CICS Explorer, Web Services, LDAP (supports a long password), CICSPlex SM Web User Interface



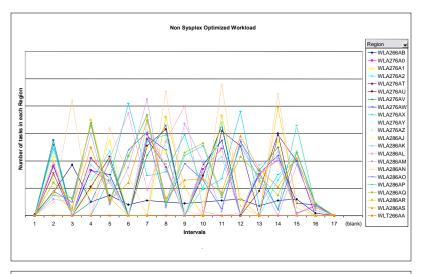


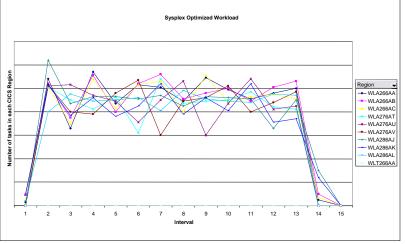
Workload Management and CICSPlex SM

- Sysplex-optimization to significantly reduce workload batching effects
 - Exploitation of z/OS coupling facility
 - "Near real time" Sysplex-wide focus on target region status
 - No impact to "non-optimized" WLM
 - Optimized WLM routing enabled by configuring a Region Status Server
 - Uses CF Data Table to hold Region Status information
 - SOS, MaxTask, System or transaction dump in progress, Current Tasks?
 - Shared by all routing regions (in the Sysplex)
- Percentile goals
 - CICSPlex SM WLM support for percentile goals
- Support in CICSPlex SM for all new resources, statistics, etc



CICSPlex SM WLM: Optimized versus Non-optimized Routing





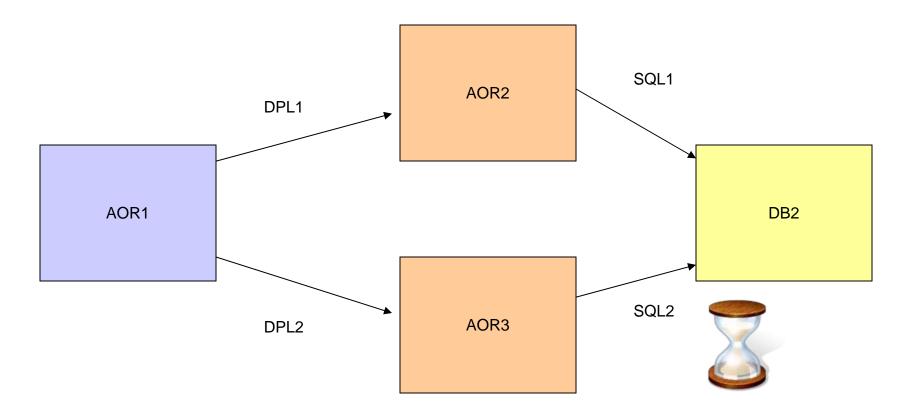
- Non-optimized Routing
 - 27 CICS regions on 3 LPARs
- Optimized Routing
 - 9 CICS regions on 3 LPARs
- Comparison
 - Workload is 10K started transactions
 - Number of tasks in each region measured every 10 second interval
- Results
 - Non-optimized environment shows "batching effects
 - Optimized results shows smoother distribution of work and higher throughput





Dynamic WLM improvements in CICS TS V4.2

- Resolves problems with multiple DPLs in a single UOW
- Known as the UOW affinity problem







Dynamic WLM improvements in CICS TS V4.2 ...

- New CICS affinity relationship
 - LOCKED
- New CICS affinity lifetime
 - UOW
- Changes to:
 - Views:
 - WLMSPEC, TRANGRP, WLMAWORK, WLMATGRP, WLMATAFF, WLM AWTOR
 - User Replaceable Modules
 - DFHDYPS, EYURWCOM, EYURWTRA





WLM routing change for IPIC connections

- WLM LINK weighting factor changed for IPIC connections
 - IPIC weighting moved above LU6.2 and Indirect
- New LINK weighting order
 - Local
 - MRO/IRC
 - MRO/XCF
 - IPIC
 - LU6.2
 - Indirect

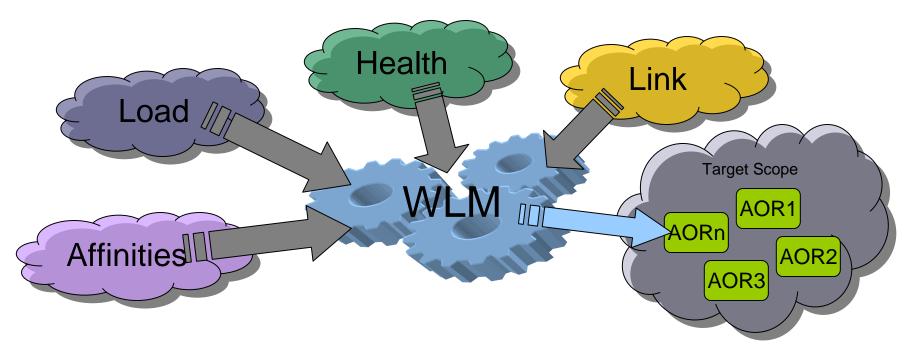




CPSM Workload Management

 Workload Management is about providing CICS with the <u>'best'</u> target region at the moment the request is made from all of the possible region candidates.

It's NOT about evenly distributing work!





New WLM routing algorithms

- Exclude LINK weighting in target region selection
 - LNQUEUE
 - Route the transaction to the target region with best combination of:
 - Health (MaxTask, Short-on-storage, Dumping, Stalled)
 - Task queue depth (or load)
 - Abend probability, when calculated
 - RTA event impact, when defined
 - LNGOAL
 - Route the transaction to the target region that:
 - Is the most likely to allow the transaction to meet its response time goal





Transaction Level Control for Dynamic Routing

- In CICS TS V4.1 routing behavior is specified on the WLMSPEC
 - Routing algorithm applies to the entire workload
- In CICS TS V4.2 routing algorithm can be specified on the TRANGRP
 - Allows different transaction to have different behaviors
 - New ALGTYPE attribute
 - QUEUE
 - GOAL
 - LNQUEUE
 - LNGOAL
 - INHERIT





Java and JVMServers

JVM implementation in CICS continues to evolve

 JDK 1.1.8, HPJ and Hotpooling, IBM Persistent Reusable JVM, Continuous mode, Java 5, Java 6, ...

JVMs in CICS TS V2 and V3

- Single task, serial reuse
- Large memory footprint
- Excellent isolation characteristics

JVMServers in CICS TS V4

- Multiple tasks (threads) in a JVM concurrently
- Java 6.0.1 exploits new z196 instruction set, improved GC, improved JIT, significant performance improvements, 64-bit, larger heaps, stack and heaps allocated above the bar
- Risk of collateral damage
- Used by Axis2 web services stack and Dynamic Scripting FP (SOD for CICS TS V4.2)
- In CICS TS V4.2 can deploy customer applications as OSGi bundles

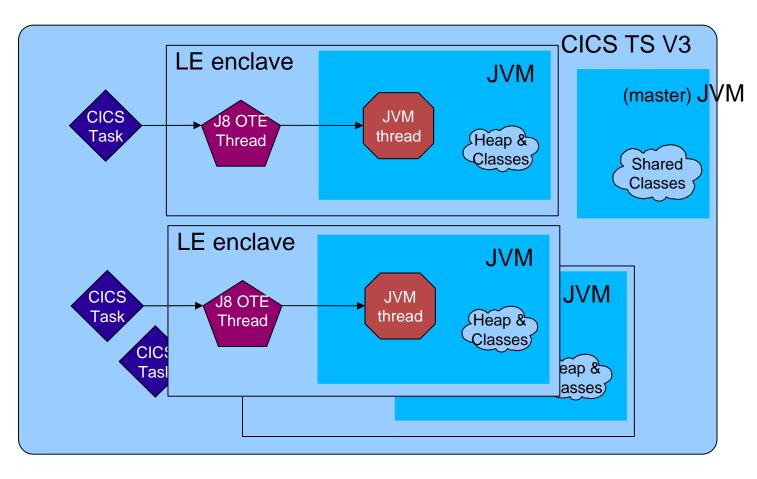




JVMPool Architecture - CICS TS V3 (and V2)

Single CICS task dispatched into a JVM in the pool at a time. So concurrent task count limited to the number of JVMs that can fit in the region.

Result is about 20 tasks/JVMs concurrently in each region.





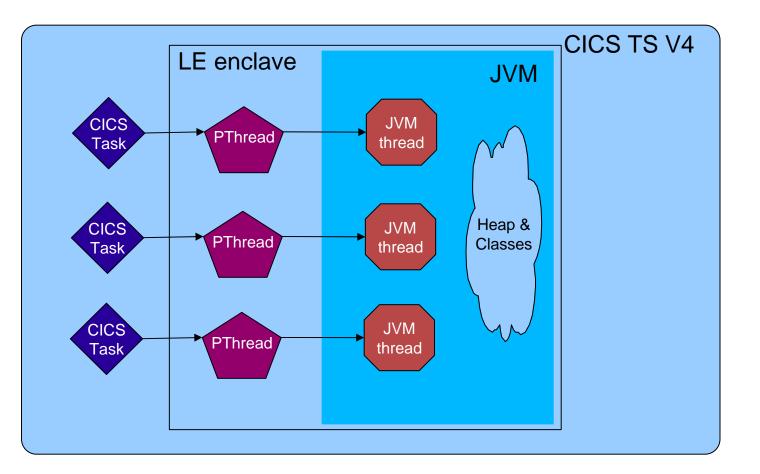


JVMServer Architecture

Can attach multiple pthread/T8/CICS tasks to the JVM at the same time.

Therefore serve more requests using a single JVM.

Result is 100s tasks per region.







CICS and Threadsafe (OTE) – what is it ?

- Threadsafe allows introduction of extreme parallelism into CICS application serving of legacy workloads
 - Significant CPU reduction is possible which allows cost reduction for existing applications
 - This cost savings thru technology should also be positioned as a means to introduce new workloads onto CICS at reduced TCO
 - These new workloads can be managed more efficiently using tools targeted for both old and new workloads running under CICS
 - These multiple benefits will allow the driving of new workloads to System z leveraging new SOA capabilities of CICS
 - This is part of the overall System z strategy to protect client application assets while improving the operational efficiency of the platform





New Threadsafe options in CICS TS 4.2

Remote File Control and Temporary Storage requests over IPIC are now threadsafe

- No switch to QR in the calling AOR
- Mirror in the remote region can run on the open TCB
- IPCONN MIRRORLIFE option controls lifetime of mirror
- New Program option CONCURRENCY(REQUIRED)
 - States that the application must run on an open TCB
 - Application starts on an open TCB
- CICS-DBCTL interface will use OTE when connected to IMS 12*
 - At connect time CICS & IMS determine if each other can support OTE
 - With IMS 10 & 11 CICS-DBCTL TRUE enabled as QUASIRENT
 - Toleration APAR PM31730 (IMS 10), PM31729 (IMS 11)
 - With IMS 12* CICS-DBCTL TRUE enabled as OPENAPI
 - Exploitation APAR PM31420 is required
- *At General Availability of CICS TS V4.2, IMS 12 is available through a Quality Partnership Program (QPP).
 - For more information, visit http://www.ibm.com/software/data/ims/





Other APIs made threadsafe in CICS TS V4.2

- SYNCPOINT
- SYNCPOINT ROLLBACK
- RESYNC
- QUERY SECURITY
- SIGNON, SIGNOFF
- VERIFY PASSWORD, VERIFY PHRASE
- CHANGE PASSWORD, CHANGE PHRASE
- EXTRACT TCPIP, EXTRACT CERTIFICATE
- All Call and Exec Level Named Counter Server commands
- Built in functions for DIGEST and DEEDIT
- Plus all new, and many existing SPI commands





Customer Threadsafe experiences

Danske Bank

- Threadsafe conversion MIPS saving of about 300 MIPS during the peak processing period – directly attributed to reduced TCB switching
- Customer looking forward to CICS Transaction Server Version 3.2 where WMQ, local File Control, and VSAM RLS are threadsafe, promising even greater improvements

"Large financial services organization in the US"

- Estimated \$32M per year in savings based on data canter chargeback reduction
- Estimated 10-15% of their total available savings
- Public domain information, delivered at Impact 2008
- The above is based on 1 non-dedicated systems person for 6-7 months without using tools
- Can easily cost-justify tools to speed the process
- Savings may be difficult to quantify beforehand
- "Major US bank"
 - Saved 700 MIPs by making one major application threadsafe
- Saving we have seen with other similar projects
 - CICS CPU savings of 2-15%
 - Reduced VSAM Transparency product overhead by over 12%



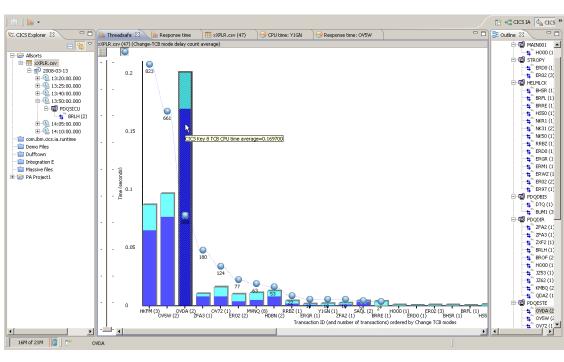
CICS PA finds the best candidates for threadsafe optimization

Problem

 Identifying the best candidates for threadsafe optimization and knowing when to stop you've achieved your goals

Solution

 Performance summary, list, and list extended reports plus metrics like TCB use by transaction, dispatch and CPU time, number of TCB switches and change mode delay time and Getmain usage help zeroin on the programs with most to gain



Value

 CICS PA easily helps improve CICS threadsafe performance, validate savings and track service levels

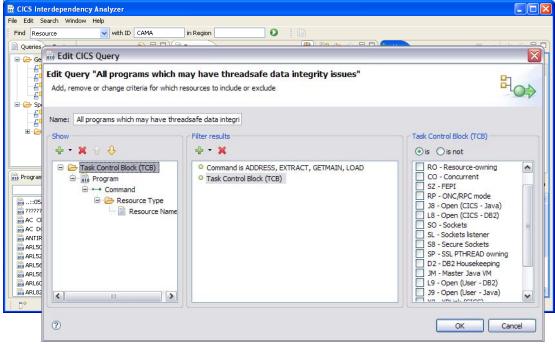


Problem

- Migrating large number of complex CICS applications without retesting entire portfolio
- Identifying suitable candidates for thread-safe optimization

Solution

- CICS IA identifies programs most sensitive to CICS API changes enabling more focussed testing
- CICS IA shows non-threadsafe programs and highlights what's needed to optimize them – including IMS resource access



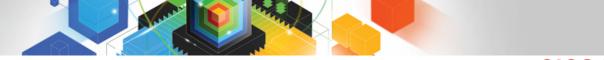
Value

- Helps customers under time pressure to migrate to latest versions with reduced risk
- Even without deep CICS skills, you can optimize your portfolio and benefit from threadsafe



IBM CICS Explorer[™] - The New Face of CICS



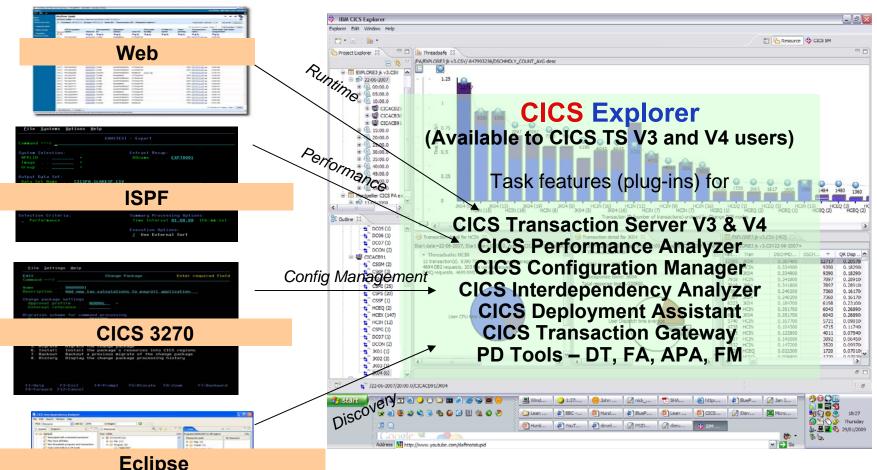




The changing face of CICS tooling for multiple interfaces

Previously...

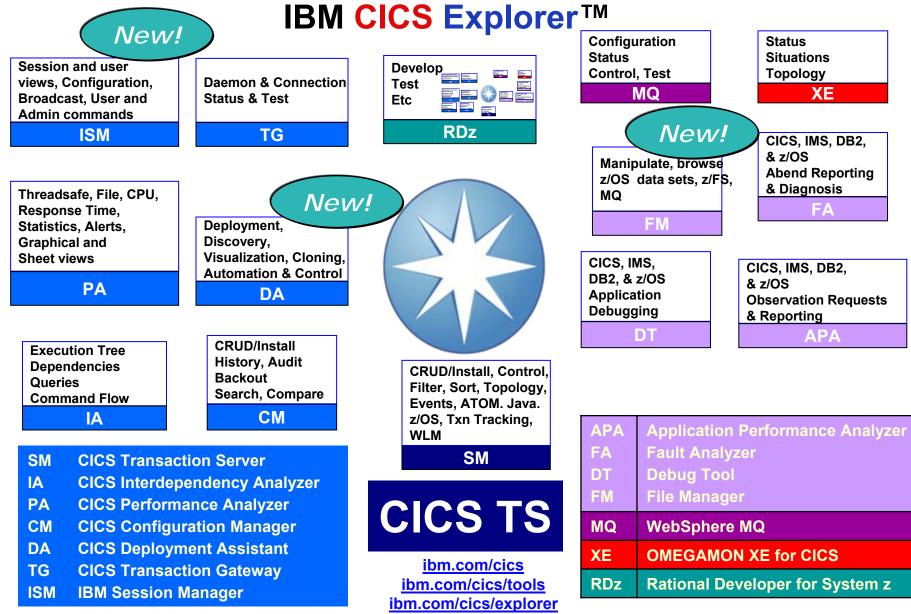
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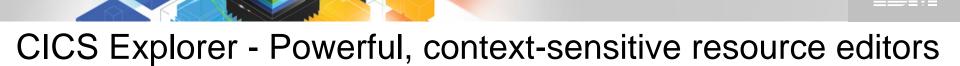
CICS administration problems solved using CICS CM

- Working with multiple CSDs
- Working with CSD files and CICSPlex SM DREPs
- Migrating changes between environments
- Delegating and approving changes
- Changes across LPAR boundaries
- Backout
- Audit compliance
- Cleanup and analysis
- Comparisons and exception analysis
- Cold start analysis

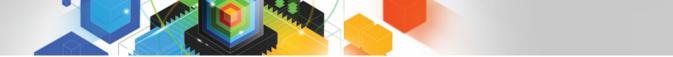


CICS Explorer - Program Definition editor - CICS CM

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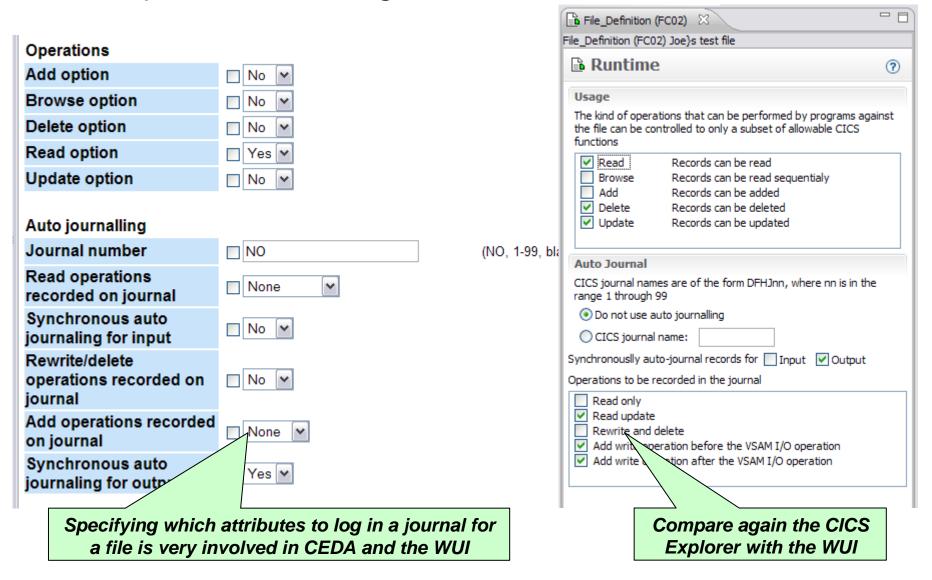


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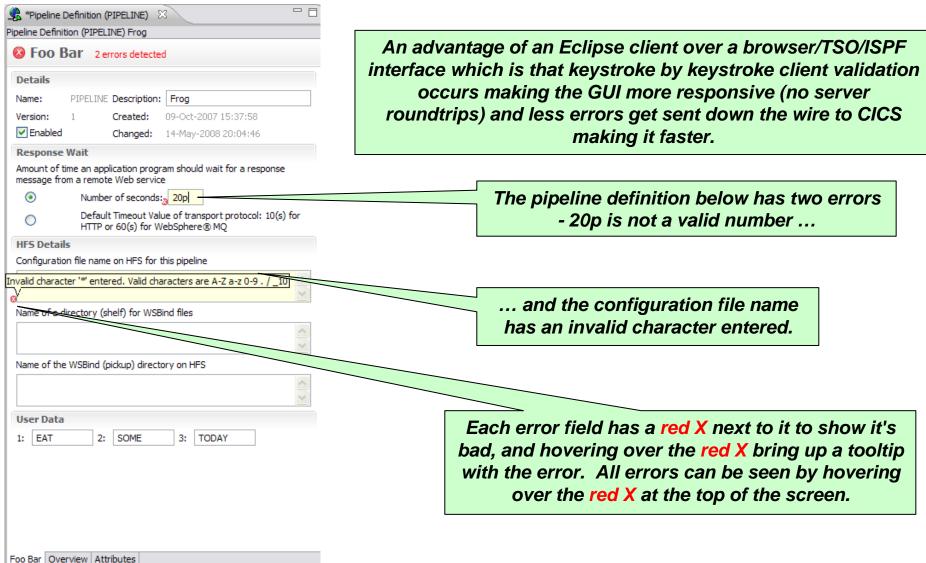




CICS Explorer - No "magic" values - File definition editor



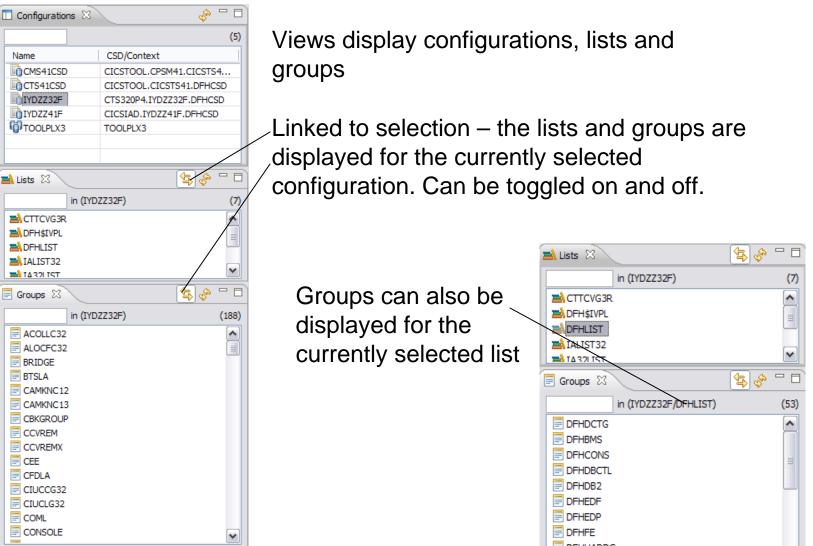
CICS Explorer - Editor validation







CM - Configurations, Lists, Groups







CM - History

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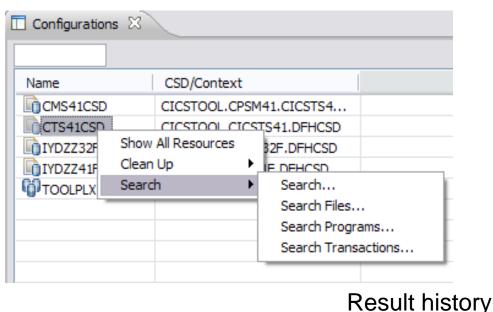


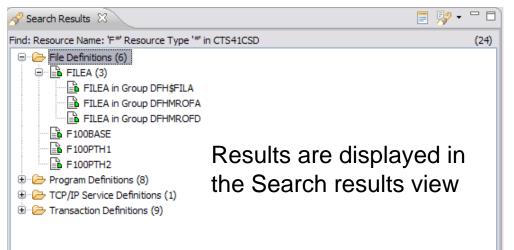


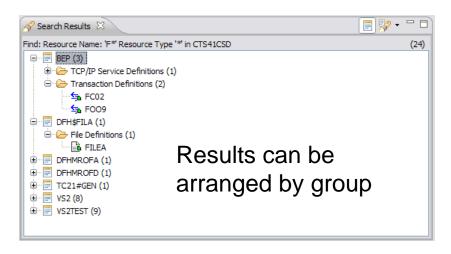
You can drive the search dialog from the toolbar



Or from one of the search options on a configuration or group







	🦻 - 🗆 🗖
Find: Resource Name: '*' Resource Type 'FILEDEF' in CTS41CSD, Group BEP	(24)
 All resources for BEP, Group BEP	
 Find: Resource Name: 'F* Resource Type '* in CTS41CSD 	
Clear History	





CM - Clean Up – Specific Searches

Name		CSD/Context			
CMS41C	SD	CICSTOOL.CP	SM41.CICSTS4		
		STS41.DFHCSD			
OIYDZZ32	2F	CTS320P4.IYD	ZZ32F.DFHCSD		
IYDZZ41F CIC	CICSIAD.IYDZ	Z41F.DFHCSD			
TOOLP	Show All	Resources	1		
	Clean Up	•	Show Resource	es With Unique Names	
	Search	•	Show Duplicate Show Orphane Show Shared R Show Orphane	esources	

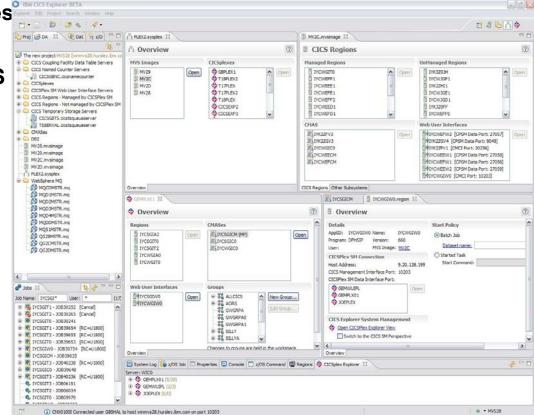
Some searches to aid in resource and CSD clean up have been provided

Some specific searches on certain resource types: LSRPool Program

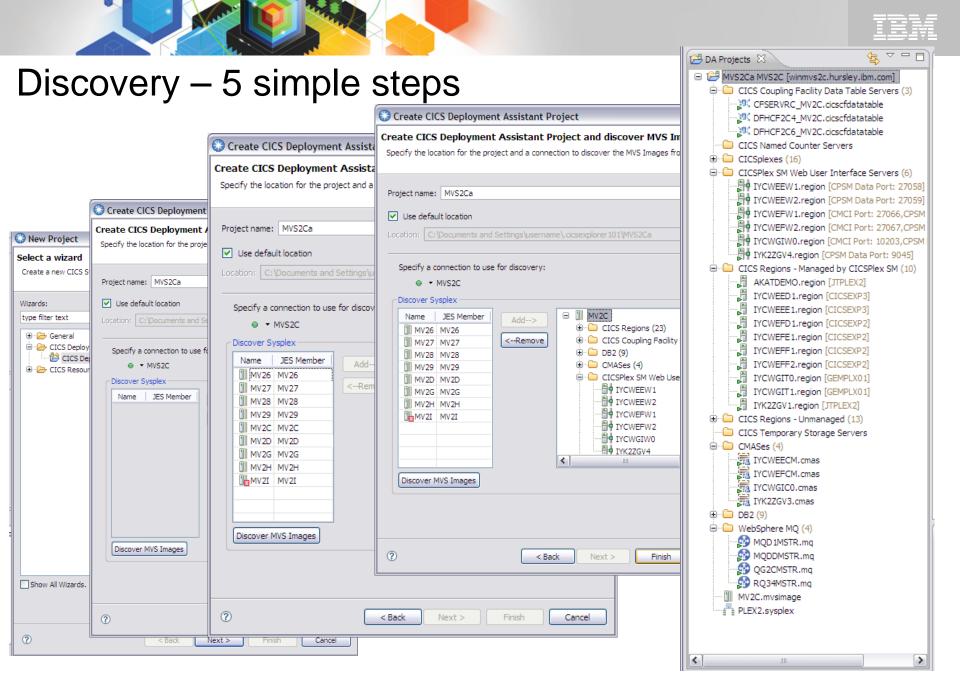
CB CB	New Open	N/A N/A
CB -	open	N/A
CB	Install	N/A
CB	Add to Group	N/A
CB	Remove from Group	N/A
CB -		N/A
СВ 🕽	🕻 Delete 🔤	N/A
CB	Find 🕨	Similar Resources
CBMF	CX53 N/A	Transactions referencing Program
CDMD	oven NI/A	NI/A

Accelerating return on your CICS investments IBM CICS Deployment Assistant for z/OS

- New Deployment perspective integrates with CICS Explorer
- Discovery, Modelling and cloning CICS Systems
- Topology Visualization
- Automated creation, deployment, customization, and control of CICS regions
- Edit files, submit JCL, view output
- Simplify tasks, save time, and reduce risk
- More info at http: ibm.com/software/htp/cics/deployment/
 - Features and benefits, data sheet, announcement letter ...



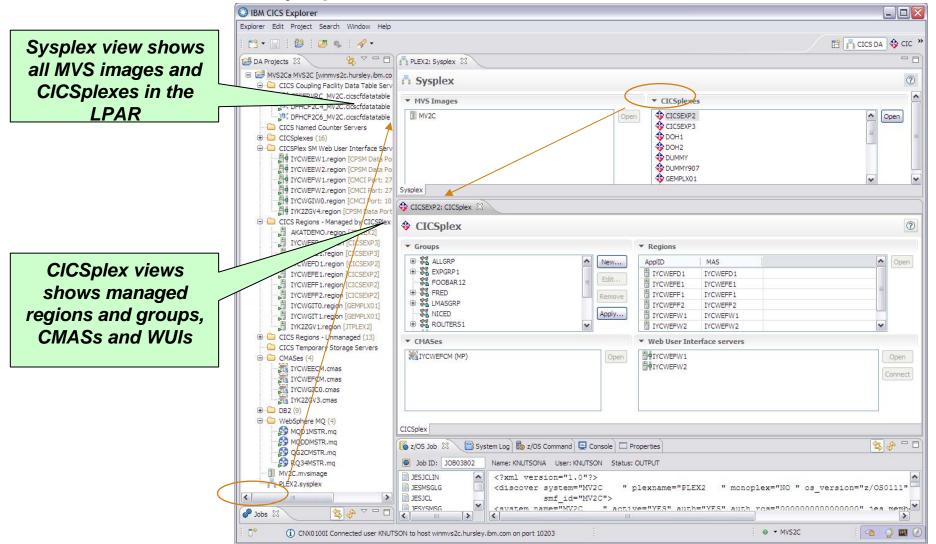
New!







Visualization - Sysplex





Visualization - CICSPlex

Navigate from CICSplex to Managed region, CMAS, and WUI

orer Edit Project Search Window Help 3] ▼ 🛄 : 🛃 🕼 🤹 🚀 ▼		
9 • 🗆 : 🖄 : 📠 🚓 : 🖉 •		
	B 🖪	CICS DA
SCICSEXP2: CICSplex X	IYCWEFD 1: Region 🕴	
Image: Second se	Managed CICS Region	
▼ Groups ▼ Begions	▼ Details ▼ Start Policy	
Image: Second	Applid: IYCWEFD 1 Job: IYCWEFD 1 IYCWEFD 1 Program: DFHSIP Version: 640 Jser: MQTEST <u>MVS Image:</u> MV2C <u>DB2:</u> MQ: Started Task IMS: Start Command:	
Apply TYCWEFW1 TYCWEFW1 TYCWEFW2 TYCWEFW2 TYCWEFW2	Start Region Stop Region	
Terrases WebUser Interface servers Open Open	CICSPlex System Management CICSplex; CICSEXP2 CICS to CICS CMAS; IYCWEFCM MAS: IYCWEFD1 To Clone the CICS region use the: Clone CICS Region Wizard Clone CICS Region Wizard	ତ୍ୟାର ପୁରୁ ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ ଅନ ଅନ୍ତ୍ର ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ
CICEplex	· unions	
tails Start Policy IYCWEFCM Job: IYCWEFCM EYU9XECS Version: 660 MQTEST MVS Image: MV2C Data set name: Browsi Start Command: Start Region Stop Region 	Appld: IYCWEFW1 Job: IYCWEFW1 Program: DFHSIP Version: 660 User: MQTEST MVS Image: MV2C MAS: IYCWEFW1 Started Task Start Command: Start Region Start Region Start Region Start Region	
C5plexes	CICSPlex System Management Host Address: winmvs2c.hursley.ibm.com	
ICSEXP2 (MP) Open ApplID MAS UMMY907 (MP) IVCWEFD 1 IVCWEFD 1 IVCWEFD 1 IVCWEF1 IVCWEF1 IVCWEF1 IVCWEF1 IVCWEF2 IVCWEF2 IVCWEF2 IVCWEF1 IVCWEF2 IVCWEF2 IVCWEF1 IVCWEF1 IVCWEF2 IVCWEF1 IVCWEF1 IVCWEF1	CICS Management Interface: 27066 CICSPlex SM Data Interface: 27056 ▼ CICSplexes ▼ CICSEXP2 Open %% FR	





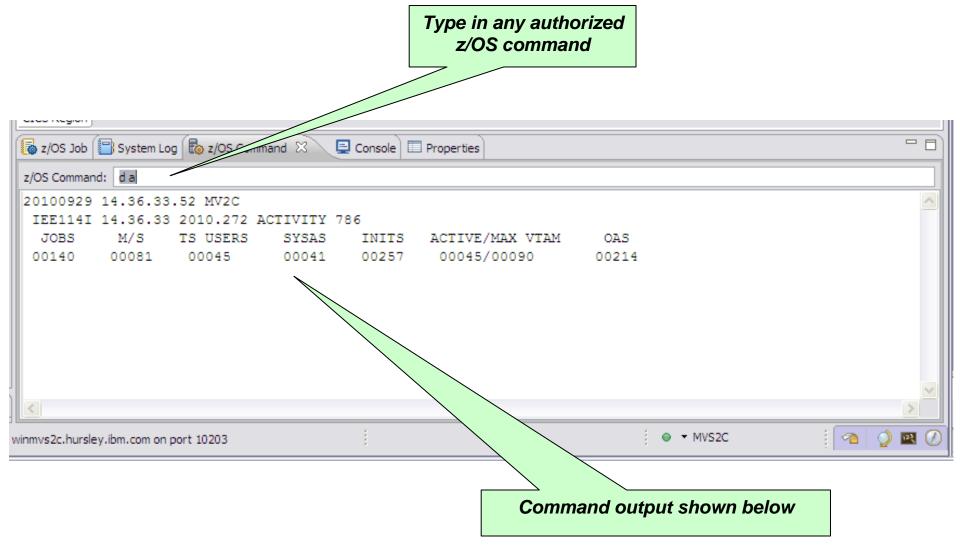
lone – 3 simple s	teps 😳 Clone a CICS Region 📃 🗖 🖾
Clone a CICS Region	Confirm values for the new data sets which will be created on finish Confirm the values for the new data sets
Specify attributes and start policy for your new region, based on from IYCWEFF2	those Data sets DD Name Share Existing Data set New Data set
New CICS Applid: IYCWEFFA New CICS Sysid: EFFA New MAS Name: IYCWEFA	DFHXRMSG MQTST.SUBSYS.IYCWEFF2.DFHXRMSG MQTST.SUBSYS.IYCWEFFA.DFHXRMSG DFHEJDIR MQTST.SUBSYS.IYCWEFF2.DFHEJDIR MQTST.SUBSYS.IYCWEFF2.DFHEJDIR DFHGCD MQTST.SUBSYS.IYCWEFF2.GCD MQTST.SUBSYS.IYCWEFFA.GCD
New Description: Regination from IYCWEFF2 by CICS DA	IYCWEGF1: Region IYCWEFF2: Region IYCWEGD1: Region IYCWEFFS: Region IYCWEFFA: Region <td< th=""></td<>
Specify the start policy and value for your new CICS region. Batch Job Data Set: Member Nar	Program: DFHST Version: 660 User: MVS Image: MV2C DB2: MO: Start Policy IMS: Start Policy Start Policy Start Policy Start Policy Batch Job Browse Browse B2: MO: Start Command: s IYCWEFFa Start Region Stop Region
pecify new names	AppliD MAS Open MAS: To Clone the CICS region use the: Image: Clone CICS Region Wizard Image: Clone CICS Region Wizard
New dataset ames chosen	🖌 💭 Z/OS Job 📳 System Log 🐻 z/OS Command 🖳 Console 😢 🔲 Properties
if required Cloned to	
Console view shows all cloning actions and list of	MQISI.SUBSYS.IICWEFFA.DFHXMSG MQISI.SUBSYS.IYCWEFFA.GCD MOISI.SUBSYS.IYCWEFFA.DFHLRO
oustanding manual tasks	

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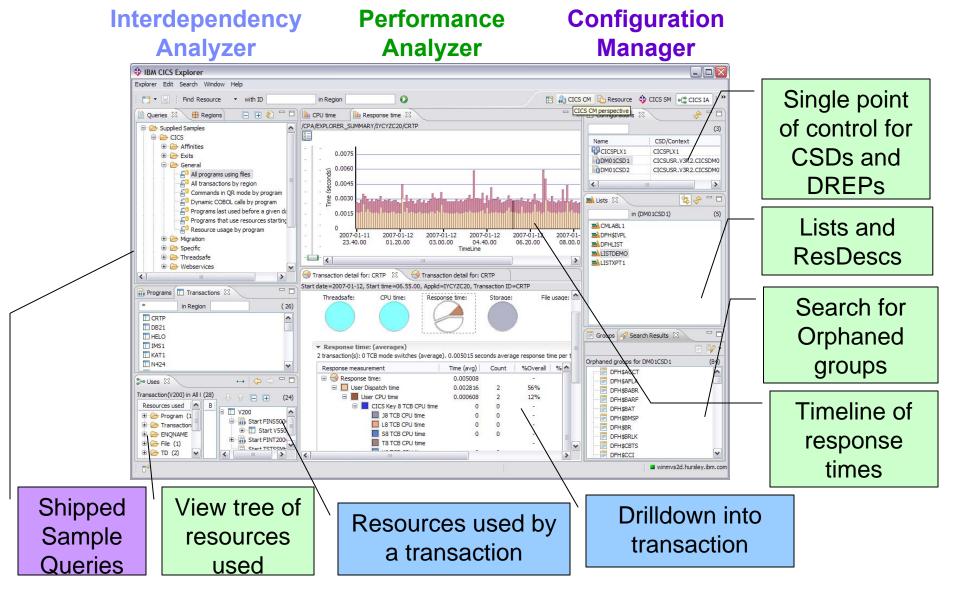
z/OS Command Line



	Cheat Sheets 🕱		
eat Sheets	CICSPlex SM Setup		
Cheat Sheet Selection	Deploy CICSPlex SM Prepare the z/OS System Load CICSPlex SM Configuration Dataset Prepare CICSPlex SM	Cheat Sheets X Upgrade to CICS TS 4.1 from CICS TS 3.x	
Select the cheat sheet to open: Select a cheat sheet from the list: CICS Deployment Assistant CICSPlex SM Setup 	z/OS Configuration	 Review System requirements Upgrading CICS: Information Center documentation Definitive information on upgrading CICS is found in the CICS Informa Center. This step will open the Upgrading sections of the CICS Information Center. 	ation
Upgrade to CICS TS 4.1 from CICS TS 3.	 Introduction By default, the CICSPlex SM component of CICS Transaction installed alongside the CICS component using SMP/E. This Che assumes that this has been completed successfully. If CICSPlex SM has not been previously used, additional post 	For CICS TS 3.1 Users, Click to open the 'Upgrading from CICS TS 3.1' section of the CICS Information Center	י • 🔍
	tasks may be outstanding. The first part of this Cheat Sheet u through the necessary checks. Note that these checks should be performed on each MVS sys running CICSPlex SM	For CICS TS 3.2 Users, Click to open the 'Upgrading from CICS TS 3.2' section of the CICS Information Center Redefine CICS Local and Global catalogs	▶ Ϋ
	There are some MVS Parmlib related settings that should be re using CICSPlex SM. These tasks are to check that those settir It may be necessary to work with your z/OS systems program the required changes that are suitable for your installation.	 Review SIT 	
	 Prepare the Workspace To execute these tasks, you will be using the z/OS Command CICS DA perspective and have an active CICS DA connection Open the CICS DA perspective 	If not already removed in a previous task, remove the	
O Select a cheat sheet from a file:	Open the z/OS Command view Connect to CICS DA	If you are upgrading from CICS TS 3.1, review the CICS APPLID option. CICS APPLIDs must be unique within the sysplex.	
Select a cheat sheet from a file:	If the 'z/OS Command' view indicates 'Only available with a De Assistant connection' then the CICS DA connection is not activity will take you through the steps to activate the DA connection	If you are upgrading from CICS TS 3.1 and are using the	
O Enter the URL of a cheat sheet:		Review the JVMPROFILEDIR option. The default JVMPROFILE option has changed, based upon the value of the new CICS_HOME option.	
(?) ОК Са		Review the USSHOME option. The directory specified or defaulted by the USSHOME option must be available in the	



CICS Explorer & CICS Tools: Putting it all Together







Summary

- Revitalize your infrastructure ...
 - Simplify network set-up moving to IP
 - Manage distributed security with ID Propagation
 - Improve workload balancing with CICSPlex SM
 - Save money with Threadsafe optimization
 - Reduce skills costs with CICS Explorer
 - Ease management burden with CICS Configuration Manager
 - Discover and clone complex environments with CICS Deployment Assistant

Resources



For more information







CICS Development Technical Services

Engage the IBM Hursley CICS development team to ensure that you get the maximum value from your CICS investments.

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• For more information please contact: CICSDTS@uk.ibm.com

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CICS Communities and Information

- CICS Transaction Server V4.2
 - http://ibm.com/cics/tserver/v42
- CICS Explorer
 - Home page ibm.com/cics/explorer
- Twitter
 - Subscribe to the <u>IBM_System_z channel</u> & <u>CICSfluff</u> channel to get CICS news flashes
- Facebook I V CICS group
 - News and views
- YouTube channels
 - CICS Explorer Videos, demos and other cool stuff
 - CICSFluff Other CICS videos
- CICS Blog Comment and opinion
 - TheMasterTerminal.com
- CICS eNews
 - Subscribe for news about CICS and related products
- <u>CICS Links</u> regular updates all in a single presentation deck













Thank You !