

IBM System z Software Premier Executive Briefing Event

Presenter – Guy Shevik

CICS - Minimize costs and maximize your CICS investments to your Advantage.

Date: 4Q 2012

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Agenda

- Issues facing CICS operational staff
- Extract Information predict problems
- Operational Health
- Integration
- Summary
- References





Issues facing CICS operational staff

- Extract information across systems
- Predict problems
- Operational health
- Integration (Monitoring / Config)
- Best Practices



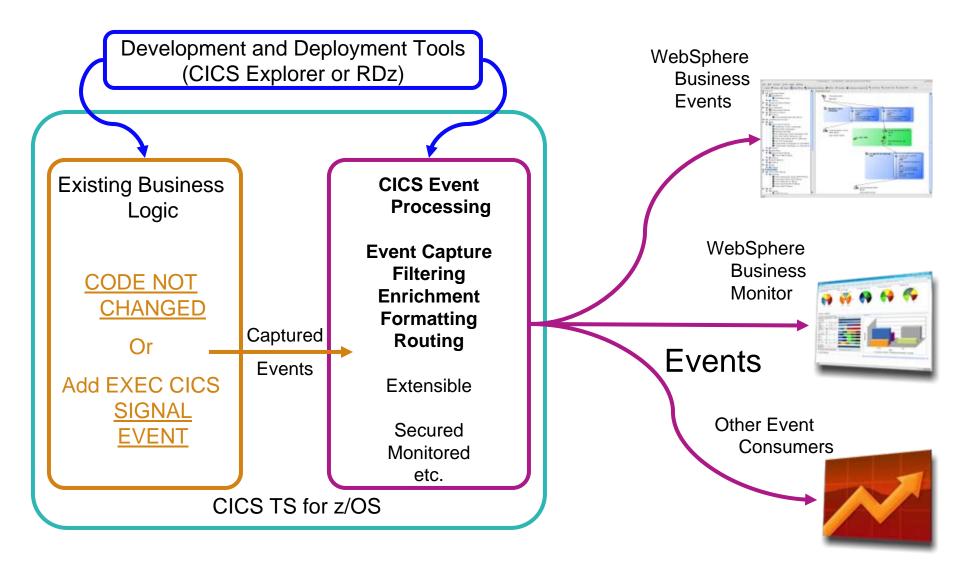
Extract Information from CICS



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Event Processing...





CICS TS V4.2 Event Processing Enhancements

System events

- 8 new system event capture points

Capture events when:

- DB2 connection status changes
- FILE enable status changes
- FILE open status changes
- Unhandled transaction abends

System Capture Point	
System edptare rome	
DB2 CONNECTION STATUS	
FILE ENABLE STATUS	
FILE OPEN STATUS	Т
TASK THRESHOLD	
TRANCLASS TASK THRESHOLD	
TRANSACTION ABEND	
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	-

- Current active tasks for a TRANCLASS goes above or below a certain percentage of MAXACTIVE.
- Current active task in a region goes above or below a certain percentage of MAXTASKs.
- WRITE OPERATOR (CICS TS V5.1)
- MESSAGE (CICS TS V5.1)





CICS TS V4.2 Event Search Capability

- Available in the CICS Explorer
 - Enter the name of the "thing" you have changed and EP search will tell you which event bindings may be affected
- 'Things' include:
 - CICS resource names
 - Language Structure names
 - Language Structure field names
- Searches event bindings in the CICS Explorer workspace and those installed in CICS regions that Explorer is connected to





CICS TS V4.2 Event Search Capability

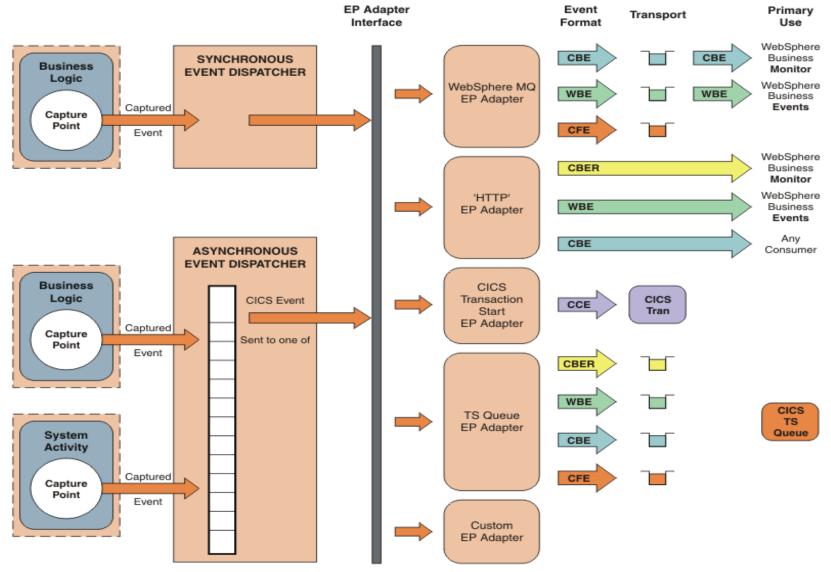
EP Search Interface

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Search string	EPDEMO	Case sensitive
Search for resource type	URIMAP	
✓ in context	in event options	in adapters
Ignore predicates with oper	ator "All"	
Search for source information:	in application data	in information sources
Variable names	Structure names	File names
Search scope:		
Workspace	CICS resources installed in:	Not connected 🗸 🗸



CICS TS V4.2 Event Deployment Options



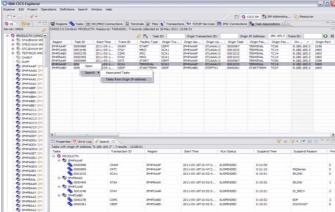




CICS TS V4.2 Transaction Tracking

As the name implies....

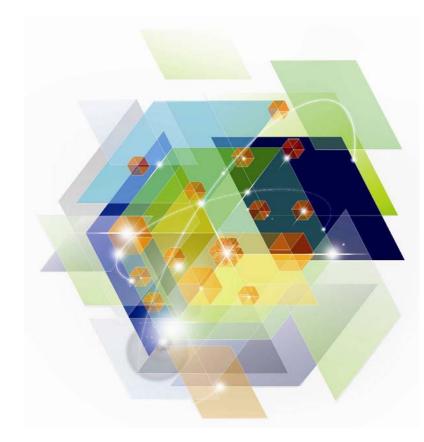
- Follow the path of a transaction through the system
- Provide means to track and correlate the progress of
 - Simple linearly routed tasks, asynchronous tasks, spawned CICS tasks – Across distributed CICS systems including over CICS managed TCP/IP
- Extends and uses Association data
 - Previous hop, association data and origin data for both MRO and IPIC connections
- Expose tracking information via CICS Explorer
- Helps to answer questions like
 - Why is this transaction suspended?
 - Where was this transaction routed to?
 - What was the point of origin for this transaction?



Operational Health



Performance Threadsafe WLM 64 bit Function Shipping Transaction Tracking



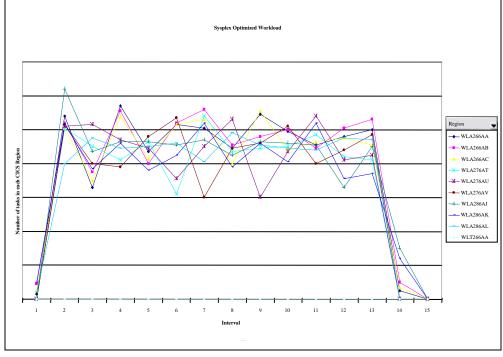
CICS V4.1 Performance

Traditional workloads

Changes to TIMEUSED – up to 5% improvement in some workloads vs 3.2

IPIC

- Up to 10% improvement
- WLM
 - Sysplex Optimised routing
- Web Services
 - Up to 33% improvement
- Threadsafety
 - More API made threadsafe





CICS V4.2 Performance

Traditional workloads

- Parity with V4.1
- WLM
 - Link Neutral algorithms
 - Unit of Work affinity prevents dead locks

Threadsafety

- Concurrency 'Required' to get started on an Open TCB
- More API made threadsafe
- IMS DBCTL adapter made threadsafe
- IPIC mirror made threadsafe
- Virtual Storage relief
 - Trace, Temporary Storage JVM all 64 bit

CICS V4.2 Performance

Pooled HTTP connections

- CPU savings for outbound connections
- WEB Services and WEB API

More LSR Pools

- Better opportunity for tuning VSAM files

Java

- Increased throughput with 64 bit JVM server
- Further improvements in CICS TS V5.1 with Java 7 and Liberty web container

CLDM transaction

Create Module maps to support HIS







CICS TS V4.2 CICS and 64-bit

- CICS Transaction Server for z/OS V4.2 contains significant changes to the CICS domain architecture that exploits the underlying z/Architecture for 64-bit addressing and provides the infrastructure for CICS domains to utilize and exploit 64-bit addressing mode.
- Enables CICS to remove some of the limitations that affected scalability and availability by delivering large address spaces
- CICS can now make use of 64-bit virtual storage to increase capacity by supporting a larger number of concurrent users and transactions, as well as keeping up with virtual storage demands





CICS TS V4.2 64-bit enablers

- CICS Trace Domain
 - Internal Trace Tables above the bar
 - Internal Trace Table in 64-bit storage only ...
 - > if CICS Transaction Isolation inactive (TRANISO=NO) or
 - > if CICS running on z/OS 1.12 with APAR OA34311 applied
 - Transaction Dump Trace Table in 64-bit storage
 - Trace control blocks in 64-bit storage
 - Auxiliary and GTF Buffers moved from 24-bit to 31-bit storage
 - 64-bit GTF Trace (OA32611 required for z/OS 1.11 & 1.12)
- CICS Message Domain
 - CICS Message tables are above the bar (subject to TRANISO restriction)





CICS TS V4.2 64-bit enablers

- CICS Dump Domain
 - 64-bit storage SDUMP support
 - Requires z/OS APAR OA32271 (z/OS 1.11 and 1.12)
 - Use is now made of z/OS IARV64 DUMPRIORITY option
- CICS Monitoring Domain
 - Association Data control blocks are above the bar (subject to TRANISO restriction)
- CICS Java
 - Updated to 64-bit JVM (Java 6.0.1) for Pooled and JVMServer – Java 7 for CICS TS V5.1
 - 31-bit Java not supported





CICS TS V4.2 64-bit enablers

-CICS Temporary Storage Domain

- MAIN TS above the bar (subject to TRANISO restriction)
 - Limiting MAIN Temporary Storage use
 - > SIT parameter: TSMAINLIMIT={64M|amount}
 - Maximum is 32G, not greater than 25% of z/OS MEMLIMIT
- Many Temporary Storage control blocks above the bar
- Automatic TS Cleanup
 - EXPIRYINT can be specified on a TSMODEL definition
 - Applies to MAIN TS Queues and non-recoverable AUX TS Queues
 - Does NOT apply to:
 - > Remote TS Queues, Recoverable AUX TS Queues
 - > Shared TS Queues, CICS internal TS Queues
 - > TS Queues that don't match a TSMODEL



CICS TS V4.2 Threadsafe Enhancements

Commands now made threadsafe

- EXEC CICS SYNCPOINT
- EXEC CICS SYNCPOINT ROLLBACK
- EXEC CICS RESYNC
- JCICS
 - COMMIT and ROLLBACK methods
- Non-threadsafe Recovery Manager clients will force a switch to the QR TCB
 - Switch to QR made by the Recovery Manager
 - Examples:
 - MRO, Transient Data, etc
- Recovery Manager clients may force an internal switch to the QR TCB
 - Switch to QR made by the client
 - Examples:
 - File control for BDAM files
 - RMI for a quasi-reentrant TRUE

DFHMIRS is now Threadsafe

- Supplied definition now specifies CONCURRENCY(THREADSAFE)





CICS TS V4.2 Scalability Enhancements...

- IPIC transformers are now threadsafe
 - Non IPIC code remains non threadsafe
- Only requests function shipped over IPIC will run on an Open TCB
 - File Control
 - Temporary Storage
 - Distributed Program Link
 - If the target program is defined as threadsafe and the mirror already on an open TCB
- A comparison of CICS QR and OTE Performance paper
 - CICS Website





CICS TS V4.2 Threadsafe Enhancement

- 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

In CICS TS V5.1 CICS MQ DPL Bridge container

- >32K data transfer



CICS TS V4.2 Performance Enhancements...

CICS historically has allowed use of 8 LSR pools

- In the days of local DLI, DLI used the other 8
- When local DLI was removed, CICS File Control was not changed
- Since z/OS 1.4, DFSMS have allowed up to 256 lsr pools per address space.

In CICS TS V4.2 we allow use of 255 LSR POOLs (1-255)

- Will not use pool 0

- Potential performance optimization where greater subdivision of files across LSR POOLs is required
 - e.g. Place highly-used files in their own LSRPOOL

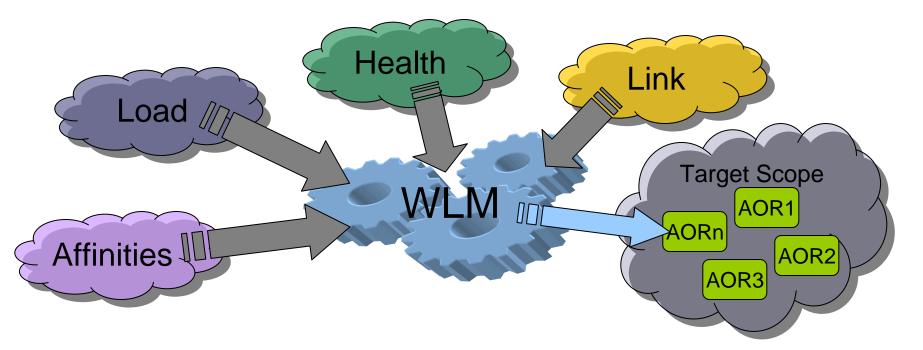




CICS TS V4.2 Management Enhancement

 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!





CICS TS V4.2 Management Enhancements...

- 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

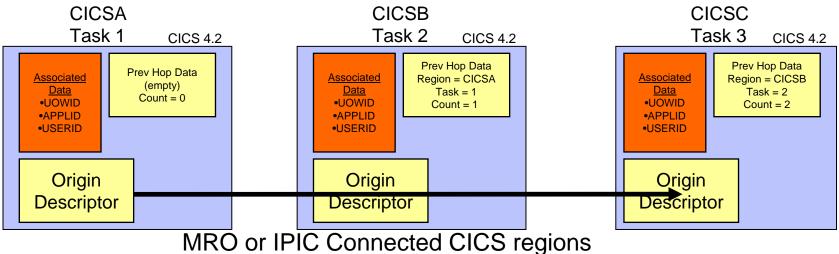
- Route the transaction to the target region that:
 - Is the most likely to allow the transaction to meet its response time goal

Follows the path of a transaction through the system Provides means to track and correlate the progress of

- Simple linearly routed tasks, asynchronous tasks, spawned CICS tasks
 - Across distributed CICS systems including over CICS managed TCP/IP
- Extends and uses Association data

Transaction Tracking

- Previous hop association data & origin data for both MRO and IPIC connections
- Helps to answer questions like
 - Why is this transaction suspended?
 - Where was this transaction routed to?
 - What was the point of origin for this transaction?





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egion	Task ID	Start Time		Origin Transaction ID	Origin Ap	Origin Us	Origin Task	Origin Fac	Origin Fac	Origin IP .	
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CSAOR1	0000048	2011-09-051 18:36:30, 186631		CSKL	CICSACB1 CICSACB1	SYSSTC	0000048	START		0.0.0.0	
CSAOR1	0000056	2011-09-05T18:36:30.720844		CONL	CICSACB1 CICSACB1	SYSSTC	0000029	NONE		0.0.0.0	
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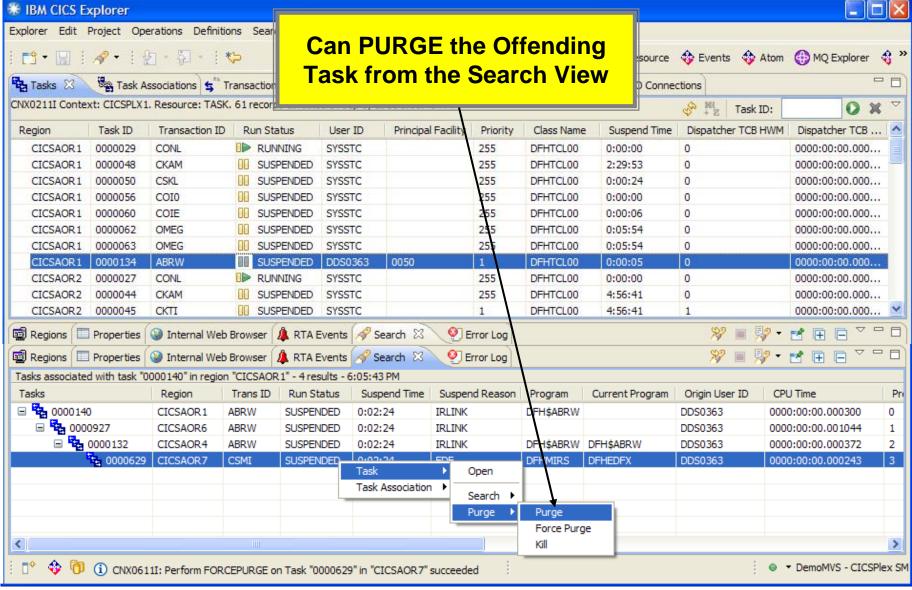


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CICSAOR1	0000029	CONL	D RUN	VING	SYSSTC		1	255	DFHTCL00	0:00:00	0	0000:00:00.000.	
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CICSAOR1	0000050	CSKL	SUSF	PENDED	SYSSTC		/	255	DFHTCL00	0:00:24	0	0000:00:00.000.	
CICSAOR1	0000056	COIO	00 SUSF	PENDED	SYSSTC			255	DFHTCL00	0:00:00	0	0000:00:00.000.	
CICSAOR1	0000060	COIE	00 SUSF	PENDED	SYSSTC			255	DFHTCL00	0:00:06	0	0000:00:00.000.	
CICSAOR1	0000062	OMEG	00 SUSP	PENDED	SYSSTC			255	DFHTCL00	0:05:54	0	0000:00:00.000.	
CICSAOR1	0000063	OMEG	00 SUSF	PENDED	SYSSTC			255	DFHTCL00	0:05:54	0	0000:00:00.000.	
CICSAOR1	0000134	ABRW	SUSF	PENDED	DDS0363	0050		1	DFHTCL00	0:00:05	0	0000:00:00.000.	
CICSAOR2	0000027	CONL	D RUN	VING	SYSSTC			255	DFHTCL00	0:00:00	0	0000:00:00.000.	
CICSAOR2	0000044	CKAM	00 SUSF	PENDED	SYSSTC			255	DFHTCL00	4:56:41	0	0000:00:00.000.	
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CICSAOR1	0000029	CONL	D RUN	NING SYS	SSTC		255	DFHTCL00	0:00:00	0	0000:00:00.000
CICSAOR1	0000048	CKAM			SSTC		255	DFHTCL00	2:29:53	0	0000:00:00.000
CICSAOR1	0000050	CSKL	00 SUS	PENDED SYS	SSTC	/	255	DFHTCL00	0:00:24	0	0000:00:00.000
CICSAOR 1	0000056	COIO	00 SUSE	PENDED SYS	SSTC		255	DFHTCL00	0:00:00	0	0000:00:00.000
CICSAOR1	0000060	COIE	00 SUS	PENDED SYS	SSTC		255	DFHTCL00	0:00:06	0	0000:00:00.000
CICSAOR1	0000062	OMEG	00 SUSE	PENDED SYS	SSTC	/	255	DFHTCL00	0:05:54	0	0000:00:00.000
CICSAOR1	0000063	OMEG	00 SUSE	PENDED SYS	SSTC		255	DFHTCL00	0:05:54	0	
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CPU Speciality Engines

CICS workload can be placed on speciality engines for

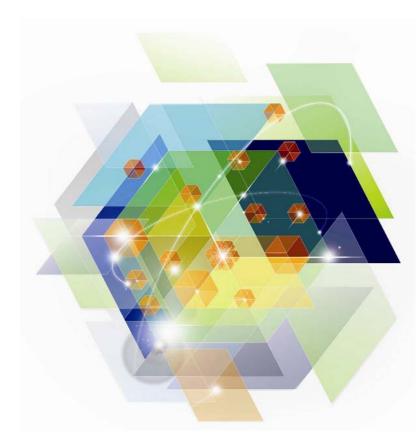
Reduced costs, where appropriate

- •Java
- •Axis2
- •WODM
- •XML Parsing
 - XMLSS Web Services XML parsing
 - XML, RDz, Enterprise COBOL

•Monitor actual and potential speciality engine usage in CICS TS V5.1



Integration



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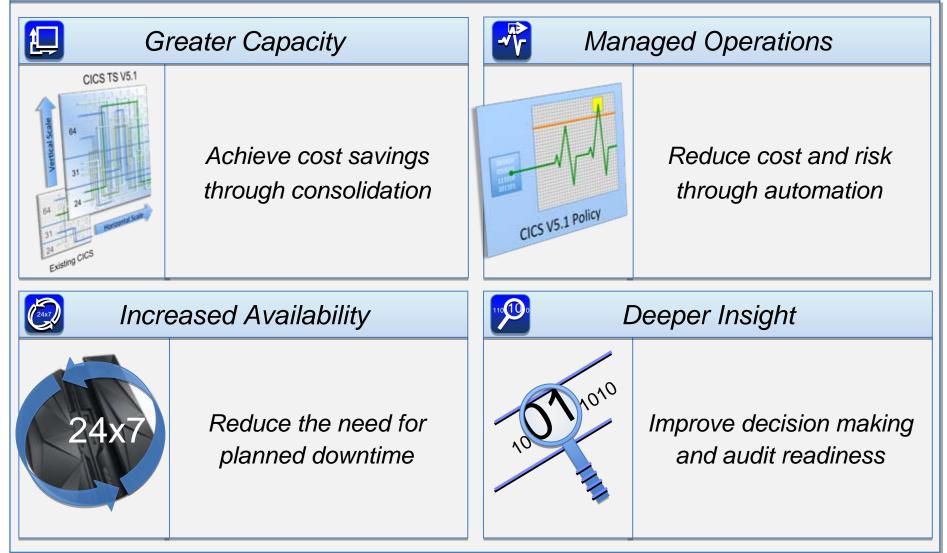
IBM CICS Explorer - The New Face of CICS

Session A - [24 x 80]										CICSPlex SM	Web User I	Interfac	e - IYCY	ZC23 - V	WEBSTERW -	Windows	Internet	Explorer		
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CICS TS V5.1 : Driving Operational Efficiency





CICS TS V5.1 : Driving Operational Efficiency

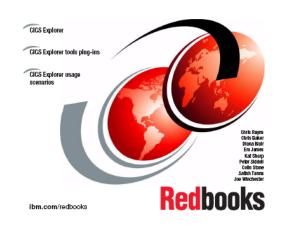
	Greater Capacity	Managed Operations
CICS TS V5.1	 Doubling the MAXTASK limit to 2,000 Increased 64-bit and reduced 24-bit storage usage Greater parallelism from threadsafe API and SPI Greater system parallelism through optimized TCB usage Performance improvements from 64-bit Java 7 Greater access to 64-bit storage from Assembler programs 	 Automated control over critical system resources Set data access thresholds on SQL or file access Set program loop thresholds on EXEC LINK Set storage request thresholds Set CPU time thresholds Set CPU time thresholds Policies can issue messages, abending tasks, or create events
(Ž4x7) In	creased Availability	Deeper Insight
24x7	 Upgrade CICS versions and releases without requiring a z/OS restart Refresh Secure Sockets Layer (SSL) certificates Keep IPIC connections up and running Support more IBM GDPS/AA solutions Dynamically specify cross-system coupling facility groups Better reflect current best practices with updated and simplified defaults 	 Auditing of SPI commands that alter the system Improved auditing of user IDs that make requests over IP Extended identity propagation to include started tasks Cipher suites used for SSL connections to be stored in the performance records Calculation of the actual and potential use of specialty processors Regular status updates provided while lost locks recovery is taking place



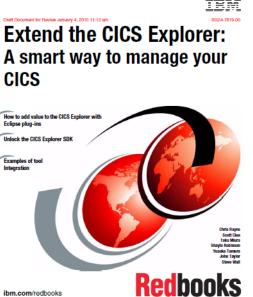
CICS Explorer Redbooks

- This Redbook[®] focuses on the new CICS Explorer
- The first part of the Redbook overviews the CICS Explorer, along with all the CICS Tools plug-ins
- The second part of the Redbook focuses on different scenarios in which the CICS Explorer can be used, along with the CICS Tools plug-ins to resolve different problems
- http://www.redbooks.ibm.com/redpieces/abst racts/sg247819.html





- This Redbook[®] focuses on the new CICS Explorer SDK
- The first part of the Redbook gives an overview of the CICS Explorer, along with an overview of PlugIns and Eclipse
- The second part of the Redbook focuses on the SDK and how to write a PlugIn and how to Extend the Explorer via PlugIns
- Two Demos are included
- http://www.redbooks.ibm.com/redpieces/abstr acts/sg247819.html



CICS

linse plug-ins



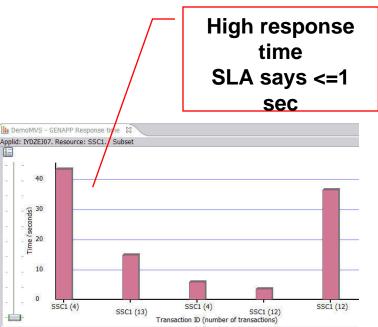
CICS Tools

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REDDVA42	SSP3	Discard			LGTESTP3	1
REDDVA42	SSP4				LGTESTP4	1
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REDDVA42	SS10	ENABLED	0	🚔 Storage	e	1
REDDVA42	SS11	ENABLED	0	🙈 File usa	age	1
REDDVA42	SS12	ENABLED	0	🙈 CPU tin	~ 1	1
REDDVA42	SS13	ENABLED	0		0010001	

z/OS Perspective

Respond to user feedback to help desk *CICS PA data*



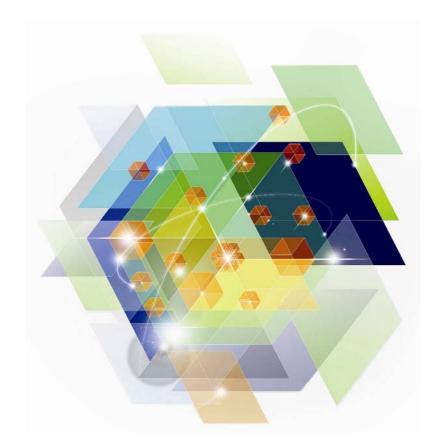


Summary

- CICS has been made easier to manage, configure and administer – CICS Explorer
- Non-intrusive tooling to easily take advantage of new technology introduced in to CICS – Events, Transaction Tracking
- High performance sustained
- More threadsafe options for more savings
- Even more value when combined with the tooling (stick around for the next session)

Reference materials





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dW

CICS Explorer Forum

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



CICS-L list Forum listserv.uga.edu/archives/cics-l.html



Key documents

Analyst papers

- Lustratus Research New project platform section for CICS Users <u>ftp://public.dhe.ibm.com/software/htp/cics/pdf/Lustratus_Research_Paper_New_project_p</u> <u>latform_selection_for_CICS_users.pdf</u>
- Branham Group: IBM CICS Tools: Unrealized Productivity Gains and True Cost Savings <u>ftp://public.dhe.ibm.com/software/htp/cics/tools/IBM_CICS_Tools_Whitepaper_2009.pdf</u>
- Software Strategies: IBM z/OS Problem Determination Tool Suite Leads Again <u>https://www14.software.ibm.com/webapp/iwm/web/preLogin.do?lang=en_US&source=sw</u> <u>g-rszswg</u>
- IBM Redbooks
 - CICS Transaction Server from Start to Finish, SG24-7952-00
 - Smarter Banking with CICS Transaction Server, SG24-7815-00
 - Implementing Event Processing with CICS, SG24-7792
 - CICS and SOA: Architecture and Integration, SG24-5466-06
 - Implementation of Popular Business Solutions with CICS Tools, REDP-4824-00
 - Threadsafe considerations for CICS, SG24-6351-04
 - <u>Architects guide to CICS on System z</u>, SG24-8067-00 Draft
 - CICS Transaction Server Application Architecture, Redbooks solution guide



Raising new requirements with RFE

- 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 coming soon (target end Jan 2012)



- 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.